Dr. Mohammed Ali Hussain

Professor, Dept. of Internet of Things (IoT)

Assoc.Dean R & D

KLEF (Deemed to be University) Andhra Pradesh, India.

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About

Dr. Ali Hussain received Ph.D. (CSE) from Acharya Nagarjuna University, Guntur, A.P., India and Post Doc from LUC, Malaysia. worked as a Professor & Principal at Sri Sai Madhavi Institute of Science & Technology, Rajahmundry, A.P. for a period of two years and Professor at Middle East College, (Affiliated to Coventry University, UK) for one year in Sultanate of Oman.

At present working as Professor and Assoc.Dean R & D in KLEF (Deemed to be University), Guntur Dist., A.P. since 2012 to till date. Produced 23 Ph.D. Scholars from various Universities and published 9 Patents and holds 1 patent grant awarded in the year 2021. Published 120 research articles in SCI/Scopus Indexed Journals and authored 3 Books and 10 Book Chapters (Taylor and Francis, Elsevier, Springer, etc.,). Advisor/Editorial Board Member/Reviewer for more than 100 Journals (IEEE, Springer, Elsevier, etc.,). Received 18 awards from various Government/Non-Government Bodies (India, Dubai, Malaysia).

Current Research Interests

Web Security, Data Analytics and Wireless Networks.

Publications

https://scholar.google.co.in/citations?user=zlorPu4AAAAJ&hl=en

https://www.scopus.com/authid/detail.uri?authorId=56009922100

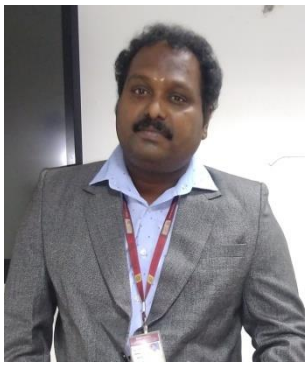
Patents

- System and Method for Monitoring and Conserving Energy in Movable and Immovable Objects. Application No: 201941036573, Published in 2019 and Granted in December 2021.

Project

- Working as one of the **Subject Expert** for Commission for Scientific and Technical Terminology, Ministry of Education, Department of Higher Education, Government of India.

BIGRAPHY



Dr. G. Murali is a Professor with 22 years experience in Academic and has been working with KLEF (Deemed to be University) Vaddeswaram since 9th October 2017. Dr. Murali was graduated in Mechanical Engineering from Bharathiar University, Coimbatore in 1998 and went on to obtain Master's from at **National Institute of Technology** (NIT),Tiruchirapalli in the specialization of Design and Production of Thermal Power Equipment in 2005. He received his Ph.D. from Anna University, Chennai, in thermal energy storage. Prior to joining KLEF, He worked at few Engineering Colleges as lecturer/Assistant professor/Associate professor/professor.

Dr. Murali has published **71** papers in reputed international Journals (including 27 in SCI Listed Journals, 50 Scopus indexed Journals) and has filed **8** patents. His **current research** interests include Thermal Energy Storage, Renewable energy and Battery Thermal Mangement system. He is a Life member of The Indian Society for Technical Education (ISTE), The Institution of Engineers (IEI India) and The Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE). He is a reviewer for 16 various SCI journals and He has reviewed more than 150 articles. He has conducted various programs such as FDP, Workshop and Symposium in various institutions. He is a Recognized Supervisor for guiding Ph. D. in Anna University (Ref No: 3020040) and Koneru Lakshmaiah Education Foundation (Deemed to be University). He received Quality researcher award in 2018 and Best Teacher Award 2020 at KLEF Deemed to be University. He Won the **ASTRA 2023** Title, **Outstanding Researcher Award** for his/her specialization in, Mechanical Engineering. The Asia Research Awards are intended to celebrate research excellence and to increase transdisciplinary exposure to exemplars in research worldwide.He adjudicated 5 thesis form different Universities. He is a BOS member in Mechanical engineering at K L University. He got selected for Visiting Faculty position in **Purdue University Northwest**, MCE department, United States. for 6 months duration through KLEF in 2020.

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Dr. Hari Kishore Kakarla

Designation : Professor and Associate Dean (Student Affairs)
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Contact at : C115B, Department of Electronics and Communication Engineering, Koneru Lakshmaiah Education Foundation,Green Fields, Vaddeswaram, Guntur, Andhra Pradesh 522502.

Education

PDF (VLSI)
2021, LUC, Petaling Jaya, Selangor, Malaysia.
Ph. D (VLSI)
2014, Koneru Lakshmaiah Education Foundation, Guntur, Andhra Pradesh, India
M.Tech (ECE)
2009, S K D University, Anantapur, Andhra Pradesh, India
B. Tech (Electronics and Communication Engineering)
2007, Jawaharlal Nehru Technological University, Hyderabad, Andhra Pradesh, India

Professional Experience

Period	Designation	Institution / Organization
2017 to Till date	Professor	Koneru Lakshmaiah Education Foundation, Guntur, AP
2014-2017	Associate Professor	Koneru Lakshmaiah Education Foundation, Guntur, AP
2011-2014	Assistant Professor	Koneru Lakshmaiah Education Foundation, Guntur, AP
2009-2011	Assistant Professor	St. Johns College of Engineering and Technology, Kurnool, AP

Research Interests

Broad Area of Research:

- VLSI Design, FPGA System Designs, SoC, VLSI Testing Circuits, IOT, Wireless Communications, Signal Processing

Honors and Awards

- World's Top 2% Scientists across the globe published by Stanford University, USA in 2021.
- The World Record of "Youngest Professor with Highest Number of 2529 Citations and H-Index of 32 with published 124 articles in the field of Engineering in Scopus and WOS" on 9th September 2021.
- Outstanding Young Scientist Award received on 02nd July 2021 in Raja Rammohun Roy National Agency, Department of Higher Education, New Delhi.
- The Indian Book of Record received of "Youngest Professor to hold highest number of citations by any individual is 2250 from 155 National and International Research" on 12th September 2020.
- Young Faculty Engineering Award received on 8th July 2017 in Venus International Foundation at Chennai.
- Received two times Best Teacher Award (KLEF) in the years 2016-17 and 2017-18.
- Played U-19 South Zone Cricket and selected Ranji Trophy.

Courses Taught

UG	PG
Digital Logic Design, VLSI Design, Design for Testability, Design with PLDs and FPGAs, Microprocessors and Microcontrollers, Computer Organization and Architecture	MOS Circuits Design, VLSI Testing Circuits, Design of Fault Tolerant System, Digital IC Applications

Research Profile

Publications

The recent publications and research contributions can be viewed from the following URLs

Scopus	**https://www.scopus.com/authid/detail.uri?authorId=56278735700**
ORCID	**https://orcid.org/0000-0003-2622-3483**
Publons	**https://publons.com/researcher/2968123/dr-hari-kishore-kakarla/**
Research Gate	**https://www.researchgate.net/profile/Hari-Kakarla-2**
LinkedIn	**https://www.linkedin.com/in/dr-kakarla-hari-kishore-11611268/**

Recognized Research Supervisor

S.No.	Department	University
01.	Electronics and Communication Engineering	Koneru Lakshmaiah Education Foundation, Guntur.

Ph.D Supervised/Progress

Ongoing	06
Awarded	06

Funded Research Projects

Completed	-
Consultancy Project	02

Patent/Books Published

Applied	08
Books Published	03

Invited Talks

No. of Invited Talks	05

Professional Development Activities-Participations

Faculty Development and Training Programmes (at least 5 Days)	42
International / National Level Seminars	5 / 10
International / National Level Conferences	21/ 01
Workshops	12
Instructor Led / Self-Paced Courses	04
Webinars	24

Professional Bodies Membership Details

MISTE	Indian Society for Technical Education, India (MISTE-80435)
AMIE	Associate Member of Institution of Engineers, India (AM137347-4)
IAENG	Member of International Association of Engineers, Hong Kong (IAENG-123518)
IACSIT	Member of International Association of Computer Science and Information Technology, Singapore (IACSIT-8044135)
UACEE	Universal Association of Computer and Electronics Engineers, India (UACEE-SM1002978)

kakarla harikishore

(Dr. Kakarla Hari Kishore)

Research profile

Dr A Venkateswara Rao

Emp id: 3179

Name:	Dr. A.Venkateswara Rao
Nationality:	Indian
Date of Birth:	17-06-1982
Gender (M/F):	Male
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WOS id:	I-3778-2016
h-index:	10
i-10 Index:	11
No of Publications:	48
No of Books Published: 04	
No of PhD's Guided:	09
No of Patents Published: 05	

Biographical Information: Dr.A.Venkateswara Rao is Assistant Professor of Chemistry & Currently Head of the Department of Chemistry at Koneru Lakshmaiah Education Foundation (Deemed To Be University) Andhra Pradesh, India. He Acquired His Master's Degree in Physical Chemistry from Andhra University. He Received His Doctorate in the Domain of Organometallic Chemistry from North-Eastern Hill University, Meghalaya. Currently his main research area in new methodologies implementing He has 19 Years of Teaching and Research Experience. He published more than 48 Research Papers in Scopus/SCI Indexed Scientific

Journals with High Impact Factor. Besides these, the results of his Research Work Presented in 20 International and National Conferences. He Authored Four Books And Five Patents. He Received Best Teacher Awards for Academic Year 2020 - 2021 From KLEF & Asian-Pacific Best Teacher Award For 2023.Under His Supervision 9 scholars received PhD Degrees and few are in Progress. He is a Life Member of Professional Bodies like Indian Science Congress Association (ISCA) & Association Of Chemistry Teachers(ACT).

Dr. PRABAKARAN NARAYANASWAMY (4966)

Associate Professor, Department of ECE, KLEF Deemed to be University.

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E8, Antony the Pebbles, Mullai Nagar, Sankarapuram, Sithalapakkam, Chennai – 600126, Tamilnadu, India.

Communication Address:
FF3, Jayasree Towers, Rajalu Bazar, High School Road, Ramavarapaddu, Vijayawada – 521108, Andhra Pradesh, India.

Date of Birth : 05th January 1981 **Marriage Status**: Married

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Scopus Link : https://www.scopus.com/authid/detail.uri?authorId=55082066300

Web of Science : https://www.webofscience.com/wos/author/record/R-8050-2018
: https://www.webofscience.com/wos/author/record/AAG-4149-2020

Research Gate : https://www.researchgate.net/profile/N-Prabakaran-2/research

Research Activity:

My research is focused on the communication and sensor networks, it's focus on developing and optimizing systems that enable efficient and reliable communication among devices in the context of sensor-based applications. In Wireless Communication research area explores ways to enhance the performance of wireless communication protocols, such as Wi-Fi and cellular networks. The goal is to improve data transfer rates, reduce latency, and increase the overall reliability of wireless connections. In 5G technology, research extends to optimizing and exploring applications for this high-speed, low-latency communication standard. Additionally, there might be investigations into the potential of future generations of communication networks., Research in WSN involves developing algorithms and protocols for efficient data gathering, routing, and information processing among interconnected sensor nodes.

Current Research Interest: Wireless Communication, 5G & Beyond, Internet of Things.

Research Achievements:

4 PhD Scholars are AWARDED under my guidance.

Patents published: 4 National Papers published.

Awards & Recognition:

- Received an **"Award of Excellence in Research"** by 20th June 2021 from Novel Research Academy.
- Received an **"Best-Paper-Awards_ICEEICT-2022 International conference" on** 17.02.2022.
- Received a Best Teacher Award on **2021-2022** academic Year.

Last 2 years Benchmarking Publication:

- Manjunath L.; **Prabakaran N**.; Aswin Kumer S.V.; Mohan E.; Natarajan B.; Sambasivam G.; Tyagi V.B. "QoS Aware Integrated Management Technique for 5G mmWave-Based Hetnets ",IEEE Access , 2023.
- **Prabakaran N.;** Devi R.P. "An improved deep learning framework for enhancing mimo-Noma system performance ",Multimedia Tools and Applications , 2023.
- Devi R.P.; **Prabakaran N**. "Efficient NOMA system: Hybrid heuristic-based network parameter optimization for spectral and energy efficiency with QoS maximization ",Journal of Optical Communications , 2023.
- Yarrakula M.; **N Prabakaran**.; Dabbakuti J.K. "Machine learning based approach for modeling and forecasting of GPS–TEC during diverse solar phase periods ",Acta Astronautica , 2023.
- Kumer S.V.A.; **Prabakaran N**.; Mohan E.; Natarajan B.; Sambasivam G.; Tyagi V.B. "Enhancing Cloud Task Scheduling With a Robust Security Approach and Optimized Hybrid POA ",IEEE Access , 2023.
- Vasanthi G.; **Prabakaran N**. "Reliable network lifetime and energy-aware routing protocol for wireless sensor network using hybrid particle swarm-flower pollination search algorithm ",Journal of Ambient Intelligence and Humanized Computing , 2022.
- Vasanthi G.; **Prabakaran N**. "An improved approach for energy consumption minimizing in WSN using Harris hawks optimization ",Journal of Intelligent and Fuzzy Systems , 2022.
- Manjunath, L., **Prabakaran, N**., "Smart Backhauling for 5G Heterogeneous Network with Millimeter Wave Backhaul Links to Perform Switching Off, Interference Management and Backhaul Routing" Wireless Personal Communications, 2022.
- Yarrakula, M., **N, Prabakaran**, Dabbakuti, J.R.K.K. Modeling and prediction of TEC based on multivariate analysis and kernel-based extreme learning machine, Astrophysics and Space Science, 2022, 367(3), 34.
- Devi, R.P., **Prabakaran, N**, "Hybrid Cuckoo Search with Salp Swarm Optimization for Spectral and Energy Efficiency Maximization in NOMA System" Wireless Personal Communications, 2022.
- Sivagar, M.R., **Prabakaran, N**., Elite Opposition Based Metaheuristic Framework for Load Balancing in LTE Network, Computers, Materials and Continua, 2022, 71(2), pp. 5766–5781.
- Thekkil, T.M., **Prabakaran, N**., "A Multi-Objective Optimization for Remote Monitoring Cost Minimization in Wireless Sensor Networks", Wireless Personal Communications, 2021, 121(1), pp. 1049–1065.

Name: Dr.Bukya Balaji

Associate Professor

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Google Scholar: https://scholar.google.com/citations?user=DgRyxP4AAAAJ&hl=en

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Bukya Balaji received the B. Tech. degree in Electronics and Communication Engineering, M. Tech. degree with specialization in VLSI System Design under the faculty of ECE and Ph.D degree in Electronics and Communication Engineering from OPJS University in 2003, 2009 and 2017 respectively. He has over 20 years of teaching and research experience. Presently, he is working as an Associate Professor in the department of ECE at KL University, Vijayawada, Andhra Pradesh. He has about 65 publications to his credit. His research interests include Nanoscale Devices, FinFET, TFET,HEMT,GAA MOSFET and TCAD Simulations. He is guiding Six student for Ph.D and Two Ph.D Students was Submitted the Thesis. He has Received AICTE-ATAL Grant and SERB-FDP Grant from Govt.of India in 2021 and 2022. He has been a reviewer in various international SCI-Q2 journals.

Dr. M. Nageswara Rao

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Research Focus and Interests

Scopus ID: ***57191229469***

WoS: ***V-8130-2017***

As a machine learning researcher, my main research interest is in structured output learning, especially large-margin approaches based on support vector machines and kernel methods. For applications, I am interested in machine learning problems arising from biological/ medical data and diagnosis of Diabetic. Commonly the diagnosis will be done by an Ophthalmologist. But the huge number of patients, especially in rural areas, has a limited number of ophthalmologists that need to screen and review the images to properly diagnose the disease.

Outcomes:

- A cost-effective and mobile equipment for capturing high-quality retina images that can be operated by trained professionals.
- A software backend that processes the images and gives an automatic diagnosis.
- Accurate detection of the severity of the disease and determining whether the patient needs immediate medical attention.
- Real-time diagnosis with fewer resources and effort.

Education:

- Ph.D. in Computer Science & Technology - Sri Krishnadevaraya University, India, 2016(Specialization: Machine Learning/Software Engineering)
- MTech. in Computer Science & Engineering - Acharya Nagarjuna University, India, 2010
- M.Sc. in Computer Science - Bharathidasan University, India,1997
- B.Sc. in Computer Science - Acharya Nagarjuna University, India,1995

Achievements:

- Award of Excellence in Research 2020 - Novel Research Academy |Bentham Ambassador from the Bentham family-2021|One Team One Dream Award from IBM India-2012|
- Spot Award from Mphasis an HP Company-2010

Teaching cum research experience (8):

Professor & Dy. HoD (CSE) at KL University (Jul-19 to Till) | Associate Professor -VRSEC(Dec-16 to Apr-19)

IT Industry experience (14):

Team Lead: Birla Soft India(P)Ltd (Aug-2012 to Aug-2016) | **Senior System Engineer:** IBM India Pvt. Ltd(Apr-2010 to Aug. 2012)| **Senior Software Engineer:** Mphasis An Hp Company(Apr-2007 to Apr-2010)

Software Engineer

• Sony India(p)Ltd (Jun 2006 to Mar 2007| Coastal Tech Solutions(p)Ltd (Mar 2003 to Jun 2006)

Info plus Technologies (p) Ltd. – USA (Apr -2000 to Mar -2003)

Dr. ARAVINDHAN ALAGARSAMY

Associate Professor & Associate Dean (Academics) - TLP
Department of Electronics and Communication Engineering

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Date of Birth : 23 April 1982

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Scopus Link : https://www.scopus.com/authid/detail.uri?authorId=57197780917

Web of Science : https://www.webofscience.com/wos/author/record/ADD-0337-2022

Research Gate : https://www.researchgate.net/profile/Aravindhan-Alagarsamy-2

Research Activity:

My research is focused on the design process of on-chip multi-core architecture and effective communication among IPs in the network. I have also worked on adopting different varieties of combinatorial optimization algorithms to develop a CAD solution for the successive mapping approach for two-dimensional (2D) and three-dimensional (3D) NoC. I have developed a proper and well-articulated multi-objective-based domain intelligence to select a suitable mapping approach with appropriate performance models to perform 2D and 3D NoC efficiently. Further, System requirements models for the successive mapping approach are developed in collaboration with the University of Saskatchewan, Canada.

Current Research Interest: Application Mapping on Networks-on-Chip; Combinatorial Optimization; QCA Design

Projects Handled: Design of DSP Processor Using SCL Foundry, Funded by ISRO-STIC - INR 12,79,344, In collaboration with National Institute of Technology (NIT), Tiruchirappalli.

Noted Publications:

- Deepa Perumal, S. Mahilmaran, **A. Alagarsamy**, G. Lakshminarayanan, Seok-Bum Ko. Probability-based Mapping Approach for Application-Aware Networks-on-Chip Architectures. *Microprocessor and Microsystems*. December 2023 (Accepted).
- C. Dutta, N. Nagarajan, ZA. Adhoni, SK. Dhandapany, **A. Alagarsamy**, et al., Outlier detection in additive manufacturing using novel machine learning algorithm. The *International Journal of Advanced Manufacturing Technology*. December 2023.
- S Immareddy, A Sundaramoorthy, **A Alagarsamy**. Adaptive FIR Filter Design with Approximate Adder and Hybridized Multiplier for Efficient Noise Eradication in Sensor Nodes. ECS Journal of *Solid State Science and Technology*. 12 (9), November 2023.
- M. Parvez, AI Mohammad, VSR. Ghali, GCS, Yadhav, GT Vesala, AT Lakshmi, **A Alagarsamy**, et al., Deep learning-based sustainable subsurface anomaly detection in Barker-coded thermal wave imaging. The *International Journal of Advanced Manufacturing Technology*, June 2023.
- **Alagarsamy**, S Mahilmaran, L Gopalakrishnan, SB Ko. SaHNoC: an optimal energy-efficient hybrid networks-on-chip architecture. The *Journal of Supercomputing*, 79 (6), 6538-6559, April 2023.
- MR Kumar, JL Prasanna, **A Alagarsamy**, TM Pravallika, et al. Estimation of bit error rate in 2×2 and 4×4 multi-input multioutput-orthogonal frequency division multiplexing systems. International *Journal of Electrical & Computer Engineering*. 13 (1), February 2023.
- **A Alagarsamy**, S Mahilmaran, L Gopalakrishnan, SB Ko. FRDS: An efficient unique on-Chip interconnection network architecture, *Integration*, 87, 90-103, November 2022.
- **A Alagarsamy**, S Mahilmaran, L Gopalakrishnan, SB Ko. SMA: A constructive partitioning-based mapping approach for Networks-on-Chip. *Microprocessors and Microsystems*, 94, October 2022.
- AK Gottem, A Sundaramoorthy, **A Alagarsamy**. High Speed Approximate Carry Speculative Adder in Error Tolerance Applications. *International Journal of Computing*. September 2022.
- M Ponnusamy, P Bedi, T Suresh, **A Alagarsamy**, et al. Design and analysis of text document clustering using salp swarm algorithm. *The Journal of Supercomputing*, 78 (14), 16197-16213, September 2022.
- **A Alagarsamy**, L Gopalakrishnan, AR Vadde, Multicriteria Deming Regressive African Buffalo Optimized Mapping for 3D NoC Architecture Design. *Mathematical Problems in Engineering*, July 2022.
- **A Alagarsamy**, L Gopalakrishnan, SB Ko. KBMA: A knowledge-based multi-objective application mapping approach for 3D NoC. *IET Computers & Digital Techniques*, 13 (4), 324- 334, July 2019.
- **A Alagarsamy**, L Gopalakrishnan, S Mahilmaran, SB Ko. A self-adaptive mapping approach for network on chip with low power consumption. *IEEE Access*, 7, 84066-84081, June 2019.

Noted Book Chapters:

- Lecture Notes on Data Engineering and Communications Technologies
- Machine Learning and Data Science: Fundamentals and Applications
- Emerging Technologies for Sustainability

Noted International Patent:

- Energy Distribution and Loss Management System For Smart Cities Using Distributed edger Based Blockchain Technology, Patent #: 2020103674, **Australian IP - Granted**

Research Profile

Name	Dr. Vasimalla Yesudasu
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Department	ECE
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WOS link	https://www.webofscience.com/wos/author/record/30754062 https://www.webofscience.com/wos/author/record/5914484
Publications	Journals: 19 (Q1: 2, Q2: 11, Q3: 7) Conferences: 4
Citations	235
h-index	7
I10-index	5
Patents	Nil
Award	Young Research award: Alpha International Publications
Global Certification	Huawei – Cloud Computing
FDP	Communication, Signal Processing and Advance Technologies For Next Generation Applications: One week (20/11/2023 to 24/11/2023.)
Biography	**Dr. Yesudasu Vasimalla** has obtained his Ph. D. from National Institute of Technology Warangal, Telangana, India in the year Jan-2023. He received PG (M. Tech.) degree in Electronics and Communication Engineering from Sardar Vallabhbhai National Institute of Technology, Surat, Gujarat in 2019 and his UG (B.Tech.) in Electronics and Communication Engineering from Bapatla Engineering College, Guntur, Andhra Pradesh in 2017. He is a student member of IEEE. Currently, He is working as assistant professor in Electronics and Communication Engineering department at Koneru Lakshmaiah University, Vijayawada, Andhra Pradesh. His research interests include Optical Biosensors. He has published more than 23 international journal and conference papers in the area of Optical biosensors, Plasmonics, and surface plasmon resonance sensor.

Name: Priyaranjan Samal

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Phone: (+91)9937402318

Education: PhD in Mechanical Engineering,
Indian Institute of Technology Bhubaneswar.

Research Area of Interest:
1. Wear and Tribology
2. Metal Matrix Composites
3. Polymer Matrix Composites
4. Advanced Machining Process
5. Modelling and Optimization

Google Scholar: https://scholar.google.co.in/citations?user=En6-lk4AAAAJ&hl=en

Scopus: https://www.scopus.com/authid/detail.uri?authorId=57204362766

WOS: https://www.webofscience.com/wos/author/record/79715

ORCiD: https://orcid.org/0000-0002-8686-9668

➢ Journal Publications (Peer Reviewed)

1. **P. Samal***, P.R. Vundavilli, A. Meher and M.M. Mahapatra (2020) "*Recent progress in aluminum metal matrix composites: a review on processing, mechanical and wear properties*", Journal of Manufacturing Processes, *Vol. 59, pp. 131-152*. **(IF- 6.2)**
2. **P. Samal***, P.R. Vundavilli, A. Meher and M.M. Mahapatra (2022) "*Reinforcing effect of multi-walled carbon nanotubes on microstructure and mechanical behavior of AA5052 composites assisted by in-situ TiC particles*", Ceramics International, *Vol. 48(6), pp. 8245-8257.* **(IF- 5.2)**
3. **P. Samal*** and P.R. Vundavilli (2023) "*Dry sliding wear performances of AA5052 hybrid composite brake disc materials reinforced with multi-walled CNT and in-situ synthesized TiC*", ASME Journal of Tribology, *Vol. 145(10), pp. 101705.* **(IF- 2.5)**
4. **P. Samal***, B. Surekha and P.R. Vundavilli (2022) "*Experimental investigations on microstructure, mechanical behavior and tribological analysis of AA5154/SiC composites by stir casting*", Silicon. *Vol. 14(7), pp. 3317-3328.* **(IF- 3.4)**
5. **P. Samal***, H. Tarai, A. Meher, B. Surekha and P.R. Vundavilli (2023) *"Effect of SiC and WC Reinforcements on Microstructural and Mechanical Characteristics of Copper Alloy-Based Metal Matrix Composites Using Stir Casting Route"*, Applied Sciences, *Vol. 13(3), pp. 1754.* **(IF- 2.7)**
6. **P. Samal***, D.M. Babu, S.V. Kiran, B. Surekha, P.R. Vundavilli and A. Mandal (2021) "*Study of microstructural and machining characteristics of hypereutectic Al-Si alloys using Wire-EDM for photovoltaic application"*, Silicon**.** *Vol. 13(12), pp. 4407-4419.* **(IF- 3.4)**
7. **P. Samal***, P.R. Vundavilli, A. Meher and M.M. Mahapatra (2019) "*Influence of TiC on dry sliding wear and mechanical properties of in-situ synthesized AA5052 metal matrix composites"*, Journal of Composite Materials, *Vol. 53(28-30), pp. 4323-4336.* **(IF- 2.9)**
8. **P. Samal***, P.R. Vundavilli, A. Meher and M.M. Mahapatra (2022) *"Multi-response modeling for sliding wear behavior of AA5052/TiC composites by stir casting: a comparative analysis using*

response surface methodology and fuzzy logic system" Proceedings of the IMechE, Part E: Journal of Process Mechanical Engineering, *Vol. 236(2), pp. 254-266.* **(IF- 2.4)**

9. A. Meher*, M.M. Mahapatra, **P. Samal** and P.R. Vundavilli (2022) "*A review on manufacturability of magnesium matrix composites: Processing, tribology, joining, and machining*" CIRP Journal of Manufacturing Science and Technology, *Vol. 39, pp. 134-158.* **(IF- 4.8)**

10. A. Meher*, M.M. Mahapatra, **P. Samal**, P.R. Vundavilli and K.V. Shankar (2022) "*Statistical modeling of the machinability of an in-situ synthesized RZ5/TiB_2 magnesium matrix composite in dry turning condition*" Crystals, *Vol. 12(10), pp. 1353*. **(IF-2.7)**

11. P.K. Jena, S. Nayak*, J.R. Mohanty, **P. Samal,** S.D. Mohanty, C. Malla, J.R. Behera, S.K. Khuntia and J. Mohapatra (2022) *"Abrasive wear performance of vetiver grass-red mud- reinforced hybrid composites: Effect of fiber loading on various wear properties"* Journal of Natural Fibers. *Vol. 19(15), pp. 11153-11164. (IF- 3.5)*

12. P.K. Jena, **P. Samal,** S. Nayak*, J.R. Behera, S.K. Khuntia, J. Mohapatra, S.D. Mohanty and C. Malla (2022) "*Experimental investigation on the mechanical, thermal, and morphological behaviour of Prosopis juliflora bark reinforced epoxy polymer composite*", Journal of Natural Fibers, *Vol. 19(14), pp. 8593-8603.* (IF- 3.5)

13. S. Nayak*, P.K. Jena, **P. Samal**, S. Sahoo, S.K. Khuntia and J.R. Behera (2022) "*Improvement of mechanical and thermal properties of Polyethylene Terephthalate (PET) composite reinforced with chemically treated ladies finger natural fiber*", Journal of Natural Fibers. *Vol. 19(13), pp. 6841-6852.* (IF- 3.5)

14. A. Meher*, M.M. Mahapatra, **P. Samal** and P.R. Vundavilli (2021) "*Abrasive wear behaviour of TiB_2 reinforced in-situ synthesized Magnesium RZ5 alloy based metal matrix composites*", Metals and Materials International, *Vol. 27(9), pp. 3652-3665.* **(IF- 3.5)**

15. A. Meher*, M.M. Mahapatra, **P. Samal** and P.R. Vundavilli (2022) "*Modeling the abrasive wear behavior of in-situ synthesized magnesium RZ5/TiB_2 metal matrix composites*", Proceedings of the IMechE, Part E: Journal of Process Mechanical Engineering, *Vol. 236(4), pp. 1500-1510.* **(IF-2.4)**

16. J. Dehury, J.R. Mohanty, S. Nayak*, **P. Samal**, S.K. Khuntia, C. Malla, S.D. Mohanty and J. Mohapatra (2022) "*Comprehensive characterization of date palm petiole fiber reinforced epoxy composites: Effect of fiber treatment and loading on various properties",* Journal of Natural Fibers, *Vol. 19(14), pp. 9457-9470.* **(IF-3.5)**

17. A. Meher*, M.M. Mahapatra, **P. Samal** and P.R. Vundavilli (2020) "*Study on effect of TiB_2 reinforcement on the microstructural and mechanical properties of magnesium RZ5 alloy based metal matrix composites"*, Journal of Magnesium and Alloys, *Vol. 8(3), pp. 780-792*. **(IF- 17.6)**

18. S. Nayak*, J.R. Mohanty, **P. Samal** and B.K. Nanda (2020) "*Polyvinyl chloride reinforced with areca sheath fiber composites—an experimental study*", Journal of Natural Fibers, *Vol. 17(6), pp. 781-792. (IF- 3.5)*

19. S. Sahu, SBB Sahu, S. Nayak*, J. Mahapatra, SK Khuntia, C. Malla, **P. Samal,** SK Patra and S Swain (2023) "*Characterization of natural fiber extracted from Bauhinia vahlii bast subjected to different surface treatments: A potential reinforcement in polymer composite",* Journal of Natural Fibers, *Vol. 20(1), pp. 2162185.* **(IF- 3.5)**

20. S. Nayak*, **P. Samal**, C. Malla, SK Khuntia, J. Mahapatra, et al. (2023) "*Enhancement of Mechanical, Thermal and Morphological Properties of Eleusine Indica Grass Fiber Reinforced Epoxy Composites*", Journal of Natural Fibers, *Vol. 20(1), pp. 2163029*. **(IF- 3.5)**

21. S. Nayak*, J. Mohapatra, K. Muduli, S.K. Khuntia, **P. Samal**, et al. (2023) *"Mechanical and thermal properties of Careya arborea bast fiber–reinforced chitosan composites for packaging industries*", Biomass Conversion and Biorefinery, *(Online First)* **(IF- 4.0)**

22. S.B. Sahu, S. Nayak*, J. Mohapatra, S.K. Khuntia, **P. Samal,** et al. *(2023) "Extraction and Characterization of Natural CASCABELA Thevetia Bast Fibers: A Potential Candidate as Reinforcement in Epoxy Composites",* Journal of Natural Fibers, *Vol. 20(2), pp. 2272215.* **(IF-3.5)**
23. B. Surekha*, M.M. Mahapatra and **P. Samal** (2022) "Characterization of AZ91D/Al7075 FGMs fabricated through gravity casting: Effect of Zn interface", Materials Research Innovations, *Vol. 27(4), pp. 233-242.* **(Scopus)**
24. **P. Samal***, R.K. Mandava and P.R. Vundavilli (2020) "*Dry sliding wear behavior of Al 6082 metal matrix composites reinforced with red mud particles*", SN Applied Sciences, *Vol. 2 (2), pp. 313.* **(IF- 2.6)**
25. B. Surekha*, T.S. Lakshmi, H. Jena and **P. Samal** (2021) *"Response surface modelling and application of fuzzy grey relational analysis to optimise the multi response characteristics of EN-19 machined using powder mixed EDM",* Australian Journal of Mechanical Engineering, *Vol. 19(1), pp. 19-29.* (Scopus)
26. Sonika, S.K. Verma, G. Sharma, R. Nayak, A. Meher*, **P. Samal,** A. Sharma (2023) *"Nanocomposite of intrinsically conductive polymers used as the active component in acetone solvent sensors",* Nanotechnology for Environmental Engineering, *Vol. 8(2), pp. 425-433.* (Scopus)
27. **P. Samal***, H. Tarai and P.R. Vundavilli (2022) "*Combining effect of annealing and reinforcement content on mechanical behavior of multi-walled CNT reinforced AA5052 composites*", Materials Today: Proceedings. *Vol. 62(6), pp. 2762-2767.*
28. H. Tarai, **P. Samal***, P.R. Vundavilli and B. Surekha (2022) "*Experimental study of microstructural and mechanical characterization of silicon-bronze copper alloy (C87600) hybrid composites reinforced with SiC-Gr particles by stir casting*", Materials Today: Proceedings, *Vol. 62(6), pp. 3221-3225.*
29. S.M. Maharana, **P. Samal***, J. Dehury and P.P. Mohanty (2020) "*Effect of fiber content and orientation on mechanical properties of epoxy composites reinforced with jute and Kevlar*", Materials Today: Proceedings, *Vol. 26(2), pp. 273-277.*
30. **P. Samal***, P.R. Vundavilli, A. Meher and M.M. Mahapatra (2019) "*Fabrication and mechanical properties of titanium carbide reinforced aluminium composites*", Materials Today: Proceedings, *Vol. 18(7), pp. 2649-2655*.
31. **P. Samal*** and P.R. Vundavilli (2019) "*Investigation of impact performance of aluminum metal matrix composites by stir casting*", IOP Conference Series: Materials Science and Engineering, *Vol. 653, pp. 012047*.
32. A. Meher*, M.M. Mahapatra, **P. Samal**, P.R. Vundavilli and S.P. Madavan (2019) "*Synthesis, microstructure and mechanical properties of magnesium matrix composite by stir casting*", Materials Today: Proceedings, *Vol. 18(7), pp. 4034-4041*.

➢ Book Chapter

1. **P. Samal***, R. Raj, R.K. Mandava and P.R. Vundavilli (2020) "*Effect of red mud on mechanical and microstructural characteristics of aluminum matrix composites", Advances in Materials and Manufacturing Engineering, pp. 75-82*, Lecture Notes in Mechanical Engineering.
2. **P. Samal***, P.R. Vundavilli, A. Meher and M.M. Mahapatra (2023) "Processing and Characterization of Aluminum Metal Matrix Composites by Stir Casting with Carbide Reinforcement", *Metal Matrix Composites, pp. 1-15, CRC Press.*

➢ Reviewer of Journals

- Tribology International (Elsevier)
- Composites Communications (Elsevier)
- Measurement (Elsevier)
- Journal of Composite Materials (Sage)
- Advanced Composite Materials (T&F)
- Advanced Engineering Materials (Wiley)
- Materials Science and Technology (T&F)
- Scientific Reports (Nature)
- Biomass Conversion and Biorefinery (Springer)
- Materials (MDPI)
- Metals (MDPI)
- Polymers (MDPI)
- Symmetry (MDPI)
- Silicon (Springer)
- Canadian Metallurgical Quarterly (T&F)
- Proceedings of the IMechE, Part L: Journal of Materials: Design and Applications (Sage)
- Proceedings of the IMechE, Part E: Journal of Process Mechanical Engineering (Sage)
- Surface Review and Letters (WS)
- Advances in Materials and Processing Technologies (T&F)

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Institute Email: ashwin7588@kluniversity.in
Personal Email: ashwin7588@kluniversity.in
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LinkedIn ID: https://www.linkedin.com/in/ashwin-raut-bbb77577/
ResearchGate ID: https://www.researchgate.net/profile/Ashwin-Raut
ResearchGate: https://www.researchgate.net/profile/Ashwin-Raut
Google Scholar: https://scholar.google.com/citations?hl=en&user=qdVrQvsAAAAJ
Scopus: https://www.scopus.com/authid/detail.uri?authorId=57191272114
Web of Science: https://www.webofscience.com/wos/author/record/1872890
Orcid ID: https://orcid.org/0000-0003-0295-1785

Profile Description:

Dr. Ashwin Raut currently serves as an Associate Professor in the Department of Civil Engineering at K.L. University, located in Vijayawada, Andhra Pradesh. He earned his Doctorate in Technology Management, specializing in Construction Management, from Universiti Tun Hussein Onn Malaysia in Johor. With an impressive research background spanning 11 years and a teaching experience of 8 years, Dr. Raut's professional focus centers on sustainable construction materials and construction management.

Dr. Raut's research endeavors are primarily oriented toward sustainable construction materials and construction management. His commitment lies in enhancing our understanding of the design and performance of sustainable construction materials, with a particular emphasis on identifying alternatives to conventional energy-intensive materials. Additionally, he advocates for the application of these materials in building envelopes to reduce energy consumption within structures. A significant aspect of his research agenda is the development of sustainable alternatives to cement products, specifically geopolymer-based materials. Notably, he has secured 2 patents in the field of geopolymer-based materials, with an additional 3 patents published and awaiting approval.

Dr. Raut's scholarly contributions are well-documented, with more than 15 SCI papers to his credit, including 12 SCI Q1 publications. In total, his publications indexed in Scopus number 26, showcasing the depth of his research impact.

Beyond his publications, Dr. Raut has made substantial contributions to high-impact journals such as Construction and Building Materials (Elsevier), Ceramics International (Elsevier), Journal of Building Engineering (Elsevier), and Journal of Cleaner Production (Elsevier).

Furthermore, he actively disseminates his research findings on the global stage by presenting his work at international conferences hosted in various countries, including Australia, South Korea, Macau, Malaysia, and Singapore. His dedication to maintaining academic rigor is underscored by his role as a reviewer for numerous esteemed journals affiliated with Elsevier. These journals include the Journal of Building Engineering, Case Studies in Construction Materials, Cleaner Materials, Construction and Building Materials, and Energy and Buildings, among others. Dr. Raut's commitment to academic excellence is further demonstrated by his review of more than 100 articles for these reputable publications.

Dr. A. Venkateswara Rao

Assistant Professor
Advanced Functional Materials Research Centre
Department of Physics, KLEF
Mail: avrphysics@kluniversity.in
avrtoavr@gmail.com

Current Research Interests:

(1) Materials for energy storage devices
(2) Electrocatalysts
(3) Magnetic materials

WoS Link: https://www.webofscience.com/wos/author/record/P-8731-2015

Biographical Information:

Dr. A. Venkateswara Rao is working as Assistant Professor in the Department of Physics, Koneru Lakshmaiah Education Foundation (KLEF), Andhra Pradesh, India since 2013. He received his master's degree in Physics from Acharya Nagarjuna University, India in 2007 and Doctoral degree in Physics on "Synthesis and characterization of Fe^{3+}, Mn^{4+}, Zr^{4+}, Sn^{4+} and V^{5+} doped $LiTi_2(PO_4)_3$ materials as Electrolytes for lithium ion batteries" in 2013 from Andhra University. He has got total 11 years of teaching, and 17 years of research experience.

Professional Information:

He Published 32 SCI/Scopus/WOS indexed papers in well reputed Q1, Q2 and Q3 scientific journals, published 2 patents and book chapter. Under his guidance four scholars received their Ph.D degrees, and three more are pursuing their Ph.D. Currently working on electrode materials for supercapacitor applications and waste water treatment applications.

He completed one DST-YS-SERB Project worth 37.54 Lakhs (*Synthesis, characterization and evaluation of nano structured spinel thin-film $LiMn_2O_4$ cathode active materials with heterovalent multi ion insertion: Application for rechargeable micro batteries*) and established Advanced Functional Materials Research Center in KLEF, Vaddeswaram campus with advanced facilities. One more DST-SERB project sanctioned worth around 26 lakhs on Dec-01-2024. He is a Reviewer for high quality indexed journals: Ceramics International journal, Materials Letters, Materials Science Engineering B, Materials Letters X, Materials Today Proceedings are few among them. Besides these, the results of his research work presented in nearly 40 international and national conferences. His research citation indices as reported by Scopus: h-index: 9, i10-index: 4. Received Best Teacher Award in 2015-16, and 2021-22, Best Researcher award from INSO in 2021-22.

BIOGRAPHICAL SKETCH –M. Janaki Ramaiah , Ph .D

NAME **M.Janaki Ramaiah, Ph.D.**	PRESENT POSITION TITLE **Professor, Biotechnology, KLEF, KL University**
Email: janaki7777@gmail.com	

Academic Qualifications:

INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
ANGRAU, Bapatla, INDIA	B. Sc (Ag)	1998	Agriculture, Biochemistry, Biotechnology
G.B. Pant Univ of Agri & Technology, UP, INDIA	M.Sc (Ag) Biotech	2000	Biotechnology, Genetic Engg
Jawaharlal Nehru University, New Delhi, INDIA	Ph. D	2007	Molecular cell Biology

Positions:

- 2007 to 2008 – DBT-PDF, CDFD, INDIA
- 2008– Senior Officer, QC, Shantha Biotechnique, Hyderabad INDIA
- 2008-2013- CSIR-Indian Institute of Chemical Technology, Hyderabad, INDIA
- 2014-2021 – Senior Assistant professor, SASTRA Deemed University, INDIA

Honors and awards:

- ICMR SENIOR INTERNTAIONAL FELLOWSHIP-2022 to 2023, USA
- Top 2% Scientist 2021, 2022, 2023
- INSO-2022
- National Bioexcellenxe-2023 (NEBA WINNER)
- IMRF award-2023
- KL Top Researcher -2022
- Editorial Board member for Current INDIAN Science, BMC genomics, MDPI, TCRT
- Active Reviewer of more than 50 Q1 journals

Research Guidance:
PhD: 03(ongoing); **B.Tech:** Guided: 100; **M.Tech: 5; PDF:1**

Research Funding:

1. **"DBT: Functional genomics approach to identify small molecule modulator of miR15 and miR16 family and possible implications in the prognosis and therapeutic intervention of chronic lymphoid leukemia. (2018-2021) File number: DBT/PR20836/MED/30/1727/2016- PI-24 LAKHS**
2. **SERB: Understanding role of the mTOR pathway in response to glucose and acetate in Glioblastoma: A functional genomics and proteomics approach"(2017-2021)- File number: EMR/2017/001201-PI-35 LAKHS**
3. **ICMR: Dendrimer application for Drug and siRNA delivery for Retinoblastoma therapy (2019- 2021)-22 lakhs. File number: ICMR/2017-00166 -PI-22 LKAHS**
4. **DST: Potential applications of Dendrimers for Breast cancer therapy (2016-2019) File number: ECR/2016/001041-CO-PI-28 LKAHS**
5. **DBT: PABA Nano particles as Drug delivery vehicles for Breast cancer therapy (2012-2015)- 1 crore- BT/PR10695/NNT/28/406/2008 and 2012 ---1 CRORE**
6. **CSIR Net work project: on Drug Discovery for potential leads against breast cancer and brain cancer in 'Small molecules in Lead exploration' SMiLe project (25 crores).**
7. **CSIR-IICT Network project:11th Five-year plan project (Team member) (2007-2011)-50 CRORES**
8. **SASTRA-TRR project on HDACs and Breast cancer-200000**
9. **KLEF-PCOD project-5 LAKHS**

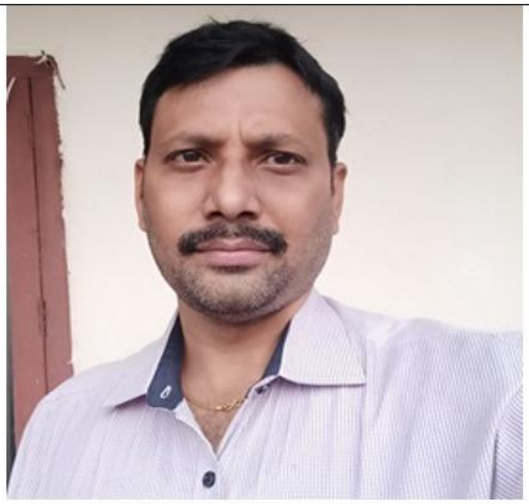
Papers /Presentations:
Published 100 papers in international journals ; https://scholar.google.co.in/citations?user=D3qMsPIAAAAJ&hl=en; https://orcid.org/0000-0003-1814-2819

Collaborations: CSIR-Indian Institute of Chemical technology, CSIR-Central drug Research Institute (CDRI), HMRI, Houstons, USA; VITS, Vellore; Amrita Viswavidya Peetham, Amaravati; Central university of Jharkhand, NIIMS, Hyderabad; INSTEM Bangalore; IISC Bangalore; CCMB-Hyderabad; Osmania University

Startup: Pragnya Bio innovations Pvt Ltd-on BRAIN Problems (Neuro degenerative diseases)

Committee : Ethical Committee member KLEF
IEC animal House member KLEF
NAAC criteria 5 Incharge (central level)
ABET coordinator, BT, KLEF
APEX Committee head (nominee), BT, KLEF

Applied projects: SATHI-70 crores as CO-PI ; M.Tech Bioengineering Project for educating M.Tech Niomedical students-6 crores



My name is Venkata Ramana Reddy Gurrampati. I am current working as professor in the department of Mathematics, Koneru Lakshmaiah Education Foundation, Vaddeswaram India. My research interest focuses on fluid dynamics, computational fluid dynamics with keen interest to learn more on modeling of fluid flow through a porous media and derivation of robust numerical methods and scientific computing for the applied problems that arise from interactions between flow and its environment as well as practical problems in engineering. My research is a well-balanced combination of analytical investigations and numerical experiments using finite difference, spectral approach and other approximation methods. My current research entails the development of reliable numerical schemes for mathematical models arising in geothermal flow in porous media as well as other PDE problems. I published more than 170 papers in national and international reputed indexed journals. Also attended many national and international conferences.

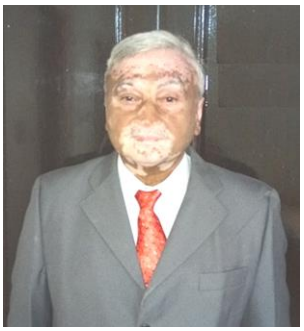
https://www.scopus.com/authid/detail.uri?authorId=58550629300

https://scholar.google.com/citations?hl=en&user=4pfaWd0AAAAJ&view_op=list_works&sortby=pubdate

https://orcid.org/0000-0002-6455-3750

Dr. B. Nageswara Rao
Former ISRO Scientist
Professor of Mechanical Engineering
Koneru Lakshmaiah Rducation Foundation
Deemed to be University, Green Fields
Vaddeswaram, Guntur – 522 502, Andhra Pradesh

Mobile: +918106762175
E-mail: bnrao52@rediffmail.com, bnrao52@kluniversity.in



Bio-data

1. Name: Dr. B. NAGESWARA RAO
2. Present Position: Professor in Mechanical Engineering
3. Residential Address: Green Home Residency (Fourth Floor-T1); Mahadas Rama Rao Street; Sitara-Kabela Route, R.R. Nagar; Vijayawada-520012, A.P.
4. Date of Birth: 01-06-1952
5. Place of Birth: Cumbum (Prakasam District, Andhra Pradesh)
6. Sex: Male; Marital Status: Married
7. Nationality: Indian
8. Father's Name: B. Pullaiah
9. State of Domicile: Andhra Pradesh
10. Professional Qualifications

Academic Qualification

Degree	Year	University/ Institution	Subjects/ Thesis	Class/ Division
Ph. D.	1982	IIT Bombay	"Boundary layer phenomena in a MHD channel"	-
M. Sc.	1975	IIT Bombay	Mathematics/ "Plasma boundary layers"	First
B. Sc.	1972	Andhra University	Mathematics & Physics	First

- Holder of the **NCC "C" Certificate (Army Wing)**
- Awarded IIT Bombay **Merit Scholarship** during post-graduation studies
- Awarded **Junior Research Fellowship** from the Indian Government Department of Atomic Energy (**DAE**) and **Senior Research Fellowship** from the Council of Scientific & Industrial Research (**CSIR**) to carryout research for Ph.D. at IIT Bombay.

Experience

Name of the Organization	Duration		Designation	Total Experience
	From	To		
KLEF, Guntur (Deemed to be University)	Aug. 13, 2012	To-date	Professor	10 years
ISRO/ VSSC Trivandrum	May 23, 1979	May 31, 2012	Scientist/ Engineer	33 years

Webpage
https://kluniversity.irins.org/profile/78549#experience_information_panel
https://orcid.org/0000-0003-1620-6188
https://www.scopus.com/authid/detail.uri?authorId=7006637850
https://publons.com/researcher/1307328/boggarapu-nageswara-rao/
https://www.webofscience.com/wos/author/rid/P-8771-2015
https://www.webofscience.com/wos/author/record/456479
https://scholar.google.co.in/citations?user=https://scholar.google.co.in/citations?user=n4Opvv&user=n4OpvvcAAAAJ
https://www.researchgate.net/profile/Boggarapu-Rao

Courses Taught

- Advanced Fluid Mechanics
- Numerical Methods in Thermal Engineering
- Incompressible & Compressible Fluid Flows
- Numerical Computations for Mechanical Engineers
- Theory of Elasticity and Plasticity
- Fatigue, Creep and Fracture Mechanics

Publications

Research papers (related to MHD/Non-Newtonian Boundary Layer Flows; Performance analysis on coal fired boilers in thermal power plants; CFD simulations and validation through test data of heat exchangers; Waste heat recovery in the process industries; Manufacturing optimization problems utilizing the developed modified Taguchi approach; Development of Hybrid finite elements; Development of special elements for bonded joints; Metallic/Composite/ Fracture mechanics; Rocket motors / Pressure vessels; Non-linear structural response of Beams / Columns / Plates; Hot / cold working characteristics of materials; Rigid body dynamics for separating bodies in space launch vehicles; Super-plastic forming; Hydro-forming deep drawing processes, etc.) contributed to Scientific Journals & Conferences are:

Journal Publications : 403 (see Annexure-I)
Articles in Conferences : **51** (see Annexure-II)
Chapters in Books : **14** (see Annexure-III)
ISRO/VSSC TECHNICAL REPORTS: 57 (see Annexure-IV)
Guidance provided to 20 Ph. D. + 27 M. Tech. + 15 batches of B. Tech. students for successful completion of their thesis work (see Annexure-V)

Reviewed articles for Journals

Acta Astronautica; American Mathematical Reviews; Applied Acoustics; Applied Mathematics and Computation; Communications in Nonlinear Science and Numerical Simulations; Defence Science Journal; Engineering Failure Analysis; Engineering Fracture Mechanics; Indian Journal of Engineering and Materials Sciences; Indian Journal of Technology; Int. Journal of Mechanical Sciences; Int. Journal of Solids and Structures; Int. Journal of Thermal Sciences; Inverse Problems; Journal of Aeronautical Society of India; Journal of Applied Sciences; Journal of Applied Mathematics and Physics (ZAMP); Journal of Materials Engineering and Performance; Journal of Mathematical and Physical Sciences; Journal of Defence Modelling & Simulation; Journal of Physics A: Mathematical and General; Journal of Physics B: Applied Physics; Journal of Physics D: Applied Physics; Journal of Sound and Vibration; Materials Science and Engineering A; Materials Science and Technology; Modelling and simulation in Materials Science and Engineering; Meccanica.

Academic Activities

Research Guide, Faculty of Science, University of Kerala
Research Guide, Faculty of Engineering & Technology, University of Kerala
Research Guide, Engineering Mathematics, Andhra University

Member of the Aeronautical Society of India (**AeSI**)
Member of the Indian Society of Theoretical and Applied Mechanics (**ISTAM**)
Member of the Indian Society for Non-Destructive Testing (**ISNT**)
Member of **LiveDNA:** A forum of worldwide highly influential Scientists & Scholars - http:/livedna.org/91.306)

- **Award for Research Excellence** from the Indus Foundation (2015)
- **Best Teacher Award** from KL University for the Academic Year 2013-14
- **Best Teacher Award** from KL University for the Academic Year 2014-15
- **Best Teacher Award** from KL University for the Academic Year 2016-17
- **Certificate of Appreciation** in **Inspire Camp-2018, sponsored by DST**and organized at KLEF during January 6-10, 2018
- **Lifetime Achievement Award** from VDGOOD^{TM} Technology Factory in the First International Scientist Awards on Engineering, Science and Medicine, held at Chennai during September 14-15, 2019
- **Certificate of Appreciation** in **Inspire Camp-2018, sponsored by DST**and organized at KLEF during October 22-26, 2019
- Recognized as **Distinguished Researcher** by Internal Quality Assurance Cell (IQAC), KLEF during World Quality Day'2019
- Listed in **Top 2% Scientists of the World** in 2021 anounced by Elsevier in association with Stanford University.
- **Excellence Service Award** from International Scientist Awards on Engineering, Science and Medicine, held at Coimbatore, India on June 18, 2022 (INSO 2022 Awards).
- Listed in **Top 2% Scientists of the World** in 2022 anounced by Elsevier in association with Stanford University.

Profile of Dr K. Venkata Ratnam

Venkata Ratnam Kolluru was born in Repalle, Andhra Pradesh, India, in 1981. He received **M.Sc**. **(Electronics)** degree from **Acharya Nagarjuna University**, Andhra Pradesh in **2003**, **M.Tech. (Embedded Systems)** in Electronics and Communication Engineering degree from **Bharath University**, Chennai, Tamilnadu in **2006 and Ph. D. (VLSI & Embedded Systems)** degree in Electronics and Communication Engineering from **NIT-Rourkela, Odisha** in **2016**.

During **2006-2008**, he has been a **Lecturer** in the Department of **Electronics and Communication Engineering**, **Bharath University**, Chennai, India. From **2008-2010** worked as an **Associate Professor** in the Department of **Electronics and Communication Engineering**, **QISCET**, Ongole, Andhra Pradesh. From **2011-2015** worked as a **Full Time Research Scholar & TA** in the Department **of Electronics and Communication Engineering**, **NIT-Rourkela, Odisha.** From **2015-2016** worked as an **Associate Professor** in the Department **of Electronics and Communication Engineering**, **RISE Gandhi**, Ongole, Andhra Pradesh. From **2016-2017** worked as an **Associate Professor** in the Department **of Electronics and Communication Engineering**, in **K L (Deemed to be University)**, Andhra Pradesh, India. He is currently working (**2017 to till date**) as an **Associate Professor** in the department of **Electronics and Computer Engineering** in **K L (Deemed to be University)**, Andhra Pradesh, India.

Under his esteemed guidance 3 Ph. D. students got awarded and guiding 1 more Ph. D. student in the department of **Electronics & Communication Engineering** at **K L (Deemed to be University)**, Andhra Pradesh, India.

His current research interests include **IoT, VLSI &Embedded Systems, Solar, MPPT and Machine Learning**.

He published **12** research articles in different international conferences, **29** research papers published in various **SCI/SCIE/WOS and SCOPUS indexed Journals**. Currently his **h-index** is **8** and **i10 index** is **6**. He published **4 PATENTS** in **Intellectual Property India**.

Name: Dr. K. Venkata Ratnam
Designation: Associate Professor,
Emp Id: 4452,
Department of IoT.

Dr. A. Srinath, Professor in Mechanical Engineering and currently the Dean of Skill Development & Students Progression Division at KL University.

Dr A Srinath, has accomplished PhD in Robotic Mechanisms from REC Raipur (present day NIT-Raipur) in 2008. Having completed his bachelor's degree from Acharya Nagarjuna University-Guntur in 2001, and pursued his M.E. in Machine Design from Rajiv Gandhi Technological University-Bhopal in 2003.

Awards & Accomplishments

- Dean Excellence Award for Two Consecutive Years 2022 and 2023, from AICTE-Edsukills.
- UGC Research Award for the period 2012-14.
- 45th Young Engineer Award from Institution of Engineers, India, Vijayawada Chapter for guiding 8 Research Scholars to accomplish their Ph.D. goals in 2012.
- The AICTE 'Career Award for Young Teachers (CAYT)' in 2006.
- The NK Iyengar Memorial Gold Medal from the Institution of Engineers India in 2006.
- Bharat Seva Ratna Award from GEPRA-New Delhi for 2015.Biography Cited in
- Handled UGC, DST and AICTE sponsored research projects on 'Medical Robots for surgical and clinical applications' worth cumulative of Rs.1.25 Croes.
- Established FIST & DST Centre of Excellence in Robotics and Mechatronics in 2012,.
- Research papers Published in International Journals of High Impact Factor.-55
- His H-Index is 7
- Published Fifteen Patents in IPR-India (from 2012 to 2022).
- Published a Book Chapter in Springer's Soft Computing for Problem Solving, 2019.
- Guided 5 scholars for successful award of Ph.D.
- Guiding 3 scholars for Ph.D as on date.

Bio-Data

Name	:	Dr.A.V. Prabu.
Qualifications	:	B.E.,M.TECH.,Ph.D(JNTUK)
Date of Birth	:	22-01-1982
Email ID	:	prabu.deva@kluniversity.in
Institution Address	:	K L University, Vijayawada, AndraPradesh,India.
Research Domain	:	**Wireless Sensor Network,IoT ,Adhoc network,MANET, Health care, and AI.**

Google Scholar Link : https://scholar.google.com/citations?user=CsyWDJkAAAAJ

Scopus Link : http://www.scopus.com/authid/detail.uri?authorId=57209470288

Research Gate : **https://www.researchgate.net/profile/Prabu-A-V**

Publons Link : **https://www.webofscience.com/wos/author/record/ABD-9149-2020**

PhD Thesis Title: Performance Analysis of Power optimization Techniques and synthesizing of Hybrid solution for Wireless Sensor Networks

Professional Qualification: 17.6 Years of Experience

Patent Published : 2

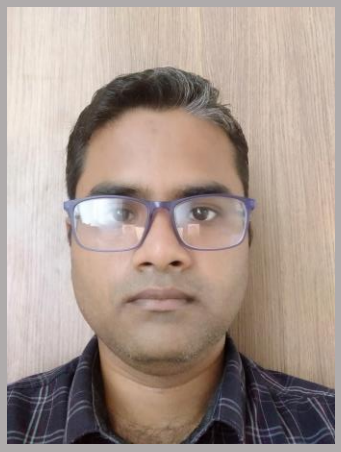
Research Proposal/Funding Project: 1

1. Project Title "Design and Implementation of Reconfigurable energy efficiency Protocol based on IoT Application Domain" Submitted to DST-ICPS (Role –CO PI). DST (Department of Science & Technology) under DST-ICPS Scheme, Ministry of Science & Technology, and Government of India. Project-sanctioned order is DST/ICPS/CPS-Individual /2018/910(G).

Research Activity:

I have a rich and diverse research experience spanning multiple interdisciplinary domains, particularly focusing on wireless sensor networks, the Internet of Things (IoT), healthcare applications, and AI. I have successfully contributed to the field through numerous publications in reputable journals such as IEEE IoT, IEEE Access, Cluster Computing, Computer Communication, Tsinghua Science and Technology, Sustainability, and others. I have published **18 SCI Publication, 16 Scopus papers, and a total of 47 publications in international journals**. I have a proven track record of collaborative research, as evidenced by my co-authorship in publications covering diverse areas like wireless sensor networks, IoT, and energy-efficient protocols for WSN.

Dr Atul Kumar



Research Interests

- Device Simulations
- Solar cell device fabrication
- 2D materials
- Gas sensor
- CZTS/Perovskite solar cell
- Material Characterisation
- Photovoltaic
- Nanotechnology

Machine handled

- **SEM**
- **TEM**
- **AFM**
- **XRD**
- **UV,PL**
- **IV measurement**
- **XPS**
- **PLD**

Work Experience

1-February-2020 to till date	**Assistant Professor, ECE Department, KL University, India (Teaching and Research)**

Educational Qualification

2014-2020	**PhD Thesis Title**: "Certain Theoretical and Experimental Aspect of CZTS based Solar Cells" **Indian Institute of Technology Patna** (IIT Patna) (Doctoral Degree Awarded) Supervisor: Dr Ajay D Thakur, IIT Patna
2012-2014	**M. Tech** (Green Energy Technology, Pondicherry University, GPA: 9.2/10)
2008-2012	**B. Tech** (Electronics and Communication Engineering, CSJM University Kanpur, India, GPA: 6.9/10.0)
2007	All India Secondary School Certificate Examination, AISSCE, 75.6% CBSE
2005	All India Secondary School Examination, AISSE, 80.8% CBSE

List of Publications: Peer-Reviewed SCI Journal

1. **Kumar, A**; *Comparative device performance of CZTS solar cell with alternative back contact,* 12(10):100092 **Materials Letters X** (2021)
2. **Kumar, A**; P Ranjan**;** *Defects signature in V_{OC} characterization of thin-film solar cells*, 220, **Solar Energy** (2021) 35-42.
3. **Kumar, A**; *Efficiency enhancement of CZTS solar cells using structural engineering*, **Superlattices and Microstructures** (2021) 106872.
4. MT Islam, **Kumar, A**; Thakur AK; *Defect Density Control Using an Intrinsic Layer to Enhance Conversion Efficiency in an Optimized SnS Solar Cell*, **Journal of Electronic Materials.** (2021)
5. **Kumar, A**; Thakur, A.D**;** *Impurity photovoltaic and split spectrum for efficiency gain in Cu2ZnSnS4 solar cell*, 238, **Optik** (2021) 166783.
6. **Kumar, A**; *Numerical modeling of ion-migration caused hysteresis in perovskite solar cells*, 53, **Optical and Quantum Electronics** (2021) 166.
7. **Kumar, A**; *Impact of selenium composition variation in CZTS solar cell*, 234 **Optik** (2021) 166421.
8. **Kumar, A**; Ranjan, P**;** *Impact of light soaking on absorber and buffer layer in thin-film solar cells***,** 126, **Applied Physics A** (2020) 397.
9. **Kumar, A**; Thakur, A.D**;** *Comprehensive loss modeling in Cu_2ZnSnS_4 solar cells*, 19, **Current Applied Physics** (2019) 10.

Programs

- SCAPS
- LabView
- Keil
- Origin
- Proteus
- Microsoft office
- XPS

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Demographics

- **DOB**: 20/07/1989
- **Gender**: Male
- **Nationality**: Indian

Languages

- English (Fluent)
- Hindi (Native)

10. **Kumar, A**; Thakur, A.D**;** *Improving the optoelectrical properties of Cu_2ZnSnS_4 using gold and graphene nano-fillers*, 30, **J Mater Sci: Mater Electron** (2019) 8546.
11. **Kumar, A**; Thakur, A.D**;** *Role of contact work function, back surface field, and conduction band offset in Cu_2ZnSnS_4 solar cell*, 57, S3, **Japanese Journal of Applied Physics** (2018)
12. **Kumar, A**; *Theoretical analysis of CZTS/CZTSSe tandem solar cell*, **Optical and Quantum Electronics** (2021)
13. **Kumar, A**; P Ranjan**;** *Computational Analysis of Chalcogenides as an Inorganic Hole Transport Layer in Perovskite Solar Cells*, 53(9) **Optical and Quantum Electronics** (2021)
14. Arunmetha, S; Dhineshbabu, N. R; **Kumar, A**; R Jayavel; *Preparation of sulfur doped TiO2 nanoparticles from rutile sand and their performance testing in hybrid solar cells.* **J Mater Sci: Mater Electron** (2021).
15. **Kumar, A**; Thandaiah, R; Das, A; *Configuration analysis of SnS based solar cells for high-efficiency devices,* **Optical and Quantum Electronics** (2022)

Peer Reviewed Journal: 30
Peer Reviewed Journal (under review): 05
Conference Presentation International: 02
Conference Proceeding: 11

Teaching Details

Assistant Professor at KL University (NIRF-29)

- Teaching UG (B. Tech) Processor and controller, Embedded systems, IOT Lab, Electronics system design lab.
- Taught Solar photovoltaics, conducted IOT labs using Node MCU, Rapberry Pi, Proteus and TinkerCAD.

Research Experience

- Expertise in solar cell devices simulations. Device simulation using SCAPS.
- Expertise in wet chemical fabrication techniques, Synthesis of thin films via, spin coating, chemical bath deposition, sputtering, thermal deposition, and PLD. Nanomaterial synthesis through solid-state, Sol-Gel, Hydrothermal/ Solvothermal techniques.
- Experienced with 2D materials such as functionalized graphene/rGO and their derivatives for applications in solar energy and gas sensing etc.
- Set up the following research laboratories: Pulsed laser deposition lab, Sputtering deposition system lab, AFM Microscopy lab.
- "Hands-on training for fabrication of devices and characterization" at Organic Photovoltaics & Electronics Technology 2017, NPL Delhi, India.

References

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Technical Skills

- **Microfabrication and material characterization techniques**: Ultra High Vacuum Systems (UHVS), Scanning Electron Microscopy (SEM), X-ray Diffraction (XRD), Physical Vapor Deposition (PVD), Atomic Force Microscopy (AFM), UV-VIS-INR Spectrophotometer, Hall Measurements, Transmission Electron Microscopy (TEM), XPS, Raman Spectroscopy, Photoluminescent (PL), IV electrical tracing.
- **Materials**: Chalcogenides, Perovskites, 2D Graphene/rGO, etc. their heterojunctions.
- **Devices**: Micro-Opto- Electro- Systems, Solar cells, Photodetectors, Gas sensors.

Honour & Awards

- Institute fellowship for Ph.D. tenure 2014-2020.
- Best Oral Presentation Award at National Institute of Technology Surat in International Conference on Recent Trends in Nanomaterials for Clean Energy (ICRTNCE-2019) during February 16-17, 2019.
- Best Poster Award at ICRCS-2017 organized during January 12-13, 2017 by Govt. Engineering College Bikaner India.
- Presented paper at Photovoltaics GPVC-19 conference at Gwangju, South Korea.
- Presented paper at Photovoltaics PVSEC-27 conference at Shiga, Japan.
- Reviewer for “Current Applied Physics”, “IET Power Electronics”, “IEEE Transactions on Electron Devices”, “Optik”.

---Dr. Atul Kumar

Name	Dr DEEPTI KOLLI 	
Designation	ASSISTANT PROFESSOR	
Department	Chemistry	
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Related Weblinks	www.linkedin.com/in/dr-deepti-kolli-b016b6198 https://www.scopus.com/authid/detail.uri?authorId=52663569500 https://scholar.google.com/citations?user=E9jmo1YAAAAJ&hl=en https://www.webofscience.com/wos/author/record/R-7218-2018	
Subjects Taught	Engineering Chemistry, Applied Chemistry, Chemistry & Bioinformatics for Engineers, Natural Products & Biomolecules, Advanced heterocyclic Chemistry, Nanotechnology in Environment	
Areas of Interest/Specialization	Natural Products Chemistry, Organic Synthesis, Drug Analysis	
Experience (in years)	Total	16 years
	Teaching	12 years
	Research	4 years
Educational Qualifications	UG	B. Sc (MPC)
	PG	M. Sc (Organic Chemistry)
	Doctorate	Topic: Chemical Examination and Bioactive Evaluation of *Morinda tinctoria* Roxb, *Michelia champaca* Linn and *Desmodium gangeticum* DC.
	Any other	Post- Graduate Diploma in Financial Management
Research Publications in Journals (last 5 years)	National	7
	International	33
Books Authored/ Edited	1. Green Organic Chemistry and its Applications (https://infinite-research.org/products/green-organic-chemistry-and-its-applications/)	

No. of Conferences/ FDP/ Seminars		Attended	Organized
	National	18	7
	International	4	2
Research Guidance		PG	Doctorate
	Awarded	8	5
	Undergoing	6	3
Awards & Distinctions	• Associate Fellow of A.P. Akademi of Sciences (FAPAS)- 2019 from Andhra Pradesh Akademi of Sciences, Amaravati, Andhra Pradesh, India. • Young Scientist Award- 2018 from Andhra Pradesh Akademi of Sciences, Amaravati, Andhra Pradesh, India.		
Administrative Assignments Handled	1. PG Coordinator. 2. Professor In charge- Academics 3. IQAC In charge 4. Quality Circle member 5. NAAC Coordinator 6. NBA Coordinator		
Association with Professional Bodies	Life member of Indian Society of Systems for Science& Engineering (ISSE) Life member of IAENG Society of Chemical Engineering		

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Professor,
KL University,
VaddeswaramGuntur -
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Work Experience :

- **Professor :** Dept. of Computer Science, KL University(**2015 to date)**
- **Assoc. Professor :** Dept. of Computer Science, KL University(**2014-2015)**
- **Professor & HOD:** Rao & Naidu Engineering College, **Ongole (2013 - 2014)**
- **Asst. Professor :** Dept. of Computer Science, Rao & Naidu Engineering College, **Ongole (2006-**
- **2008)Lecturer :** Noble College of Computer Sciences, Kavali **(2001-2006)**

Research Experience : Research – **17** years, Teaching - 23 years
Research Publications/ Books : International - 54 , Books -1 , Book Chapters - 6 ,
National - 3 , Books - 1 , Book Chapters - 2 .
Patents Published/Awarded : International - 0 , National - 7.
Seminar/ Conferences Attended : International - 19 , National - 8.
Ph.D./ M.Phils/ Post Docs Guided : 7
Editorial Board Member/Reviewer : International/ National Journals - 3 /1 .
Ph.D. Thesis: Association Rule Mining over Static and Dynamic Databases using Tree based Partitioned and Incremental Approaches.

Research Areas: Data Mining, Data Modelling, GIS and Remote Sensing, Bio computing, Bioinformatics, Big Data, Soft Computing, Image Processing, Pattern recognition.

Research Guidance: Guiding **8** Ph.D. Scholars.

Research Links

Google Scholar	https://scholar.google.co.in/citations?user=31Gp5B8AAAAJ&hl=en
Scopus	Results: AU-ID("Pradeepini, G." 37071235400)
ORCID	http://orcid.org/0000-0001-7757-6559
ResearchID	https://www.researcherid.com/Workspace.action ResearcherID:S-3004-2016

Publications:

1. Patil, S.A., Pradeepini, G., Komati, T.R., "Novel mathematical model for the classification of music and rhythmic genre using deep neural network", Journal of Big Data, 2023, 10(1), 108.

2. Macharla, A., Pradeepini, G., "A novel framework for the diagnosis of Parkinson's disease using transfer learning with RESNET50 and SVM classifier", Indonesian Journal of Electrical Engineering and Computer ScienceThis link is disabled., 2023, 32(2), pp. 877–886.

3. Thandu, A.L., Thommandru, V.S., Gera, P., "Data Science in Healthcare Monitoring Under Covid-19 Detection by Extended Hybrid Leader-Based Compressed Neural Network", New Generation ComputingThis link is disabled., 2023, 41(3), pp. 669–696.

4. Ampavathi, A., Pradeepini, G., Saradhi, T.V. Optimized Deep Learning-Enabled Hybrid Logistic Piece-Wise Chaotic Map for Secured Medical Data Storage System, International Journal Of Informationtechnology & Decision Making, Vol-22, Pageno:1743 – 1775

5. Indupalli, M.R., Pradeepini, G. A Hypertuned Pipeline Vector Using Meta Classifier Technique for Feature Selection in Multi Disease Prediction, International Journal on Recent and Innovation Trends in Computing and Communication, 2023, 11(9s), pp. 578–589.

6. Jyothi, P., Pradeepini, G HDPSANN: An Efficient Heart Disease Prediction System using A Soft Swish Artificial Neural Network Based on ECG Signals, International Journal of Intelligent Systems and Applications in Engineering, 2023, 11(9s), pp. 671–684

7. Myneni, U., Pradeepini, G. Prediction of tomato leaf disease using transfer learning algorithms InceptionV3 and Inception Resnetv2 AIP Conference ProceedingsThis link is disabled., 2023, 2814(1), 020009

8. Kethineni, K., Gera, P. Iot-Based Privacy-Preserving Anomaly Detection Model for Smart Agriculture Systems, 2023, 11(6), 304

9. Kethineni, K. , Pradeepini, G. An Overview of Smart Agriculture Activities Using Machine Learning and IoT AIP Conference ProceedingsThis link is disabled., 2023, 2477, 030033

10. Kethineni, K., Pradeepini, G. Design of Security Surveillance and Automatic Water System for Agriculture International Journal of Intelligent Systems and Applications in Engineering, 2023, 11(2), pp. 212–215

11. Pradeepini, G., Kethineni, K. Identification of Leaf Disease Using Machine Learning Algorithm for Improving the Agricultural System, Journal of Advances in Information Technology14(1), 2023, pp. 122-129

12. Pradeepini, G., Jyothi, P. Heart disease detection system based on ECG and PCG signals with the aid of GKVDLNN classifier, 2023, Multimedia Tools and Applications

13. Pradeepini, G., Kethineni, K. Intrusion detection in internet of things-based smart farming using hybrid deep learning framework, 2023, Cluster Computing

14. Pradeepini, G., Kadiyala, N.S., Seshagiri, V.L., ...Melam, P., Vupputuri, S.K., A Comparative Analysis of ECG-based Algorithms for Cardiac Arrhythmia Detection, 2nd International Conference on Sustainable Computing and Data Communication Systems, ICSCDS 2023 – Proceedings pp. 881-884

15. Pradeepini, G., Prasanth, N., Kiran, C.U.S., ...Nethi, S., Srinivasu, N. Fusion of Iris and Periocular Biometrics Authentication using CNN, Proceedings - 7th International Conference on Computing Methodologies and Communication, ICCMC 2023 pp. 378-382

16. Pradeepini, G., Reddy, A.V., Sai Kumar, P., ...Khan, P.A., Imambi, S. MDLNN Approach for Alcohol Detection using IRIS, Proceedings of the 2023 2nd International Conference on Electronics and Renewable Systems, ICEARS 2023 pp. 1210-1213

17. Gera, P., Gunda, K., Pre-trained CNN models in early Alzheimer's prediction using post-processed MRI, Big Data Analytics and Machine Intelligence in Biomedical and Health Informatics: Concepts, Methodologies, Tools and Applications, 2022, pp. 47-95

18. Gera, P., Anila, M., Parkinson‟s Disease Identification using Deep Neural Network with RESNET50, International Journal of Advanced Computer Science and Applications, 2022, 13(11), pp. 488-495

19. Pradeepini, G., Anila, M. Diagnosis of Parkinson's Disease Using Optimized Neural Network Model, 2022, Lecture Notes in Electrical Engineering, 903, 2022, pp. 367-375

20. Gera, P., Padmanabhuni, S.S. Synthetic Data Augmentation of Tomato Plant Leaf using Meta Intelligent Generative Adversarial Network: Milgan, International Journal of Advanced Computer Science and Applications, 2022, 13(6), pp. 230-238

21. Gera, P., Govathoti, S., Reddy, A.M., ...Kamidi, D., Padmanabhuni, S.S. Data Augmentation Techniques on Chilly Plants to Classify Healthy and Bacterial Blight Disease Leaves, International Journal of Advanced Computer Science and Applications 13(6), 2022, pp. 131-139

22. Pradeepini, G., Sahithi, G.L., Roshmi, V., ...Sameera, Y.V. Credit Card Fraud Detection using Ensemble Methods in Machine Learning, 2022 6th International Conference on Trends in Electronics and Informatics, ICOEI 2022 – Proceedings pp. 1237-1241

23. Pradeepini, G., Anila, M. Diagnosis of Parkinson's Disease Using Deep Neural Network Model, 2021 International Conference on Smart Generation Computing, Communication and Networking, SMART GENCON 2021

24. Pradeepini, G., Manekar, A. Metaheuristic Optimization Using Hybrid Algorithm in Cloud-Based Big Data Analytics, Lecture Notes in Networks and Systems 215, 2021, pp. 625-630

25. Pradeepini, G., Jyothi, P., Classification of Normal/Abnormal Heart Sound Recording Through Convolution Neural Network Through the Integration of Baseline and AdaBoost Classifier, Lecture Notes in Networks and Systems, 2021, 215, pp. 441-447

26. Gera, P., Manekar, A.S. Optimize Task Scheduling and Resource Allocation Using Nature Inspired Algorithms in Cloud based BDA, Webology 18(SpecialIssue1), 2022, pp. 127-136

27. Pradeepini, G., Jyothi, P. Review on Cardiac Arrhythmia Through Segmentation Approaches in Deep Learning, Advances in Intelligent Systems and Computing 1312 AISC, 2021, pp. 139-147

28. Gera, P., Pole, G. Cluster-Based Ensemble Using Distributed Clustering Approach for Large Categorical Data, Lecture Notes in Networks and Systems, 202, 154, pp. 671-680

29. Pradeepini, G., Manekar, A. Mobile Sms spam filter techniques using machine learning techniques, International Journal of Scientific and Technology Research, 2020, 9(3), pp. 384-389

30. Gera, P., Manekar, A.S. Deadline aware optimization in resource allocation for reducing migration cost, Advances in Mathematics: Scientific Journal, 2020, 9(9), pp. 6765-6775

31. Gera, P., Manekar, A. Optimize Neutral Framework with Fair Share Resource Allocator for Big Data Processing on Cloud Infrastructure, Proceeding - 1st International Conference on Innovative Trends and Advances in Engineering and Technology, ICITAET 2019, pp. 148-152

32. Pradeepini, G., Jyoti Patil, M.S. Development of deep learning algorithm for brain tumor segmentation, International Journal of Engineering and Advanced Technology
    9(1), 2019 pp. 2800-2803

33. Pradeepini, G., S.patil, J. Brain tumor levels detection in three dimensional MRI using machine learning and mapreduce, Indian Journal of Public Health Research and Development 10(6), 2019 pp. 1465-1471

34. Pradeepini, G., Patil, J.S. SIFT: A comprehensive, International Journal of Recent Technology and Engineering 7(5), 2019 pp. 810-814

35. Pradeepini, G., Kumar, P., Kamakshi, P. Feature selection effects on gradient descent logistic regression for medical data classification, International Journal of Intelligent Engineering and Systems 12(5), 2019, pp. 278-286

36. Pradeepini, G., Manekar, A.S. Experimenting cloud infrastructure for tomorrows big data analytics, International Journal of Innovative Technology and Exploring Engineering 8(5), 2019, pp. 885-890

37. Pradeepini, G., Bommadevara, H.S.A., Sowmya, Y. Heart disease prediction using machine learning algorithms, International Journal of Innovative Technology and Exploring Engineering 8(5), 2019, pp. 270-272

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40. Gera, P., Manekar, A. Studying cloud as IaaS for big data analytics: Opportunity, challenges, International Journal of Engineering and Technology(UAE) 7, 2018 pp. 909-912

41. Pradeepini, G., Anila, M. Least square regression for prediction problems in machine learning using R, International Journal of Engineering and Technology(UAE) 7(3.12 Special Issue 12), 2018, pp. 960-962

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43. Pradeepini, G., Muni Sai, G., Aruna, V. Hybrid Pcap analyser using T-Shark a tool that makes use of open source analyser that can Meet Industrial Standards, International Journal of Engineering and Technology(UAE) 7(4), 2018, pp. 85-88
44. Pradeepini, G., Bangare, S.L., Patil, S.T. Regenerative pixel mode and tumour locus algorithm development for brain tumour analysis: A new computational technique for precise medical imaging, International Journal of Biomedical Engineering and Technology 27(1-2), 2018, pp. 76-85

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46. Pradeepini, G., Patil, J.S. Three-dimensional MRI brain image analysis on hadoop platform, Advances in Intelligent Systems and Computing 632, 2018, pp. 131-142

47. Sunil L Bangare Dr G Pradeepini, Dr Shrishailappa T Patil "Regenerative Pixel Mode and Tumor Locus Algorithm development for Brain Tumor Analysis – A New Computational technique for precise Medical Imaging" International Journal of Biomedical Engineering and Technology July 2017 **ISSN online:** 1752-6426.

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50. Pradeepini G, Greeshma L, "Input split frequent pattern tree using mapreduce paradigm in hadoop", Journal of Theoretical and Applied Information Technology Volume 84, Issue 2, ISSN 1992-8645 ,20 February 2016, Pages 260-271.

51. Greeshma L, Pradeepini G, "Mining Maximal Efficient Closed Itemsets Without Any Redundancy", Information Systems Design and Intelligent Applications ISSN 2194-5357, 1 January 2016, Pages 339-347.

52. Pole G, Pradeepini G, "A recent study of emerging tools and technologies boosting big data analytics", Advances in Intelligent Systems and Computing Volume 413, ISSN: 2194-5357, 2016, Pages 29-36

53. M. Satya Srinivas, A Yesubabu, G Pradeepini, "Cost Sensitive Class Imbalance Learning using ANFIS", Australian Journal of Basic and Applied Sciences , 10(5) Special 2016, Pages: 144-149 **ISSN:** 2309-8414.

54. M Satya Srinivas, Dr. A Yesubabu, Dr. G Pradeepini, " Feature Selection Based Neural Networks for Software Defect Prediction" OSR Journal of Computer Engineering (IOSR-JCE) Volume 18, Issue 8, December 2016, Pages 122-125 ISSN- 2278-0661.

55. Fasi Ahmed Parvez G. Pradeepini and Dr. Uma N. Dulhare, "Applications of Gravitational Search Algorithm" IJCTA International Science Press 10(9) 2017 PP 731-737.

56. Manekar A, Pradeepini G, "Transforming Big Data Analytics in Cloud" International Journal of Research in Computer & Information Technology. Vol-2, Issue2, March 2017, Pages 69-71.
57. M Satya Srinivas, Dr. A Yesubabu, Dr. G Pradeepini, "A Comparative Analysis of Hybrid Learning over Back Propagation for Identifying Defective Prone Modules" International Journal of Soft Computing, ISSN : 1816-9503, 12(4):199-203, 2017.

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59. Dr G Pradeepini V Sahithi N Siva Sree, P Yamini Padmaja, "Performing Sentimental Analysis on Blog Data" International Journal of Pure and Applied Mathematics Vol 115 No.6 2017 Pages 253-259, ISSN 1314-3395.

60. K Sai Srinivas Dr G Pradeepini, "Detection of the Presence of Micro Aneurysms in Retinal Images using FCM" Journal of Advanced Research in Dynamical and Control Systems" Vol.9 Sp-6 2017 Pages 847-857 ISSN: 1943-023X.

61. Sunil L Bangare Dr G Pradeepini, Dr Shrishailappa T Patil "Neuroendoscopy Adaptor Module Development for better Brain Tumor Image Visualization" International Journal of Electrical and Computer Engineering (IJECE), Vol.7, Issue no.6 Sep 2017 ISSN:2088-8708.

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67. G. Pradeepini & Dr S. Jyothi, "Item-Based Partitioning Approach of Soybean Data for Association Rule Mining", Jyothi , International Journal of Computer Engineering (IJCE), Volume-3, Number 2, July-December 2011, pg. No. 65-69, ISSN : 0975-6116.

68. G. Pradeepini & Dr S. Jyothi, "Item-Based Partitioning Approach of Soybean Data for Association Rule Mining", Jyothi , International Journal of Computer Engineering (IJCE), Volume-3, Number 2, July-December 2011, pg. No. 65-69, ISSN : 0975-6116.

69. K.V. Srinivasa Rao, Ch. Sunitha, S.Srinivasulu, G. Pradeepini, "Ontological User Profiles for Web Information Searching", International Journal of Engineering Science & Advanced Technology (IJESAT), Vol-2, Issue-6, Nov-Dec 2012, pg. no. 1587-1595, ISSN: 2250-3676.

70. G Pradeepini, S Jyothi, "An improved k-means clustering algorithm with refined initial centroids", Publications Of Problems & Application in Engineering Research, Vol-4, Issue-1 2013.

71. G Pradeepini, MD Hussain Khan, "Machine Learning Based Automotive Forensic Analysis for Mobile Applications Using Data Mining", Indonesian Journal of Electrical Engineering and Computer Science, Vol-16, No-2, November 2015.

72. Manekar A, Pradeepini G, "A Review on Cloud-based Big Data Analytics", ICSES Journal on Computer Networks and Communications (IJCNC), Vol. 1, No. 1, May 2015

Patents:

1. Application Number : 20234106816, Invention Title: Intrusion Detection In Internet Of Things Based Smart Farming Using Hybrid Deep Learning Framework, Publication Date: 20/10/2023.
2. Application Number : 202341067986, Invention Title: Safeguarding Solanaceae: Enhancing Disease Detection And Fertilizer Recommendations For Global Agriculture Using Iot Integrated Fine Tuned Xception Approach, Publication Date: 20/10/2023.
3. Application Number : 202341021344, Invention Title: A system for diagnosis of parkinson's disease using deep neural network, Publication Date: 07/04/2023.
4. Application Number : 201721040698, Invention Title: Regenerative Pixel Mode And Tumor Locus Detection For Improved Brain Tumor Analysis, Publication Date: 01/12/2017.
5. Application Number : 201741039918, Invention Title: Detection Of Brain Tumor Levels In 3d Mri Images Using Hadoop's Mapreduce Framework, Publication Date: 22/12/2017.

(G. Pradeepini)

Dr. Shaik Mohammed Ibrahim
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https://scholar.google.com/citations?user=sVW47G0AAAAJ&hl=en

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Dr.Shaik Mohammed Ibrahim is a distinguished faculty in Mathematics. He has been teaching Under Graduate and Post-Graduate students since2004. He received his M.Sc from Sri Venkateswara University, Tirupati, and Ph.D from Sri Venkateswara University, Tirupati, India. Presently, he is working as Associate Professor K L Deemed to be University He published more than 105 research papers in various SCI/SCIE/Scopus/UGCcare indexed journals, published one book with LAMBERT and delivered talks in various national and international conferences. Under his supervision, one scholar awarded Ph.D and 2 scholars are working. His research interests include Nano fluids, Non-Newtonian fluids, Heat and Mass Transfer, MHD, Porous media, Computational Fluid Dynamics, Numerical Methods. He is a Life Member of Indian Society for Theoretical and Applied Mechanics, IAENG, IIETA. He serves as Reviewer for several refereed peer reviewed journals.

<table>
<tr><td>1</td><td>Name of Faculty</td><td colspan="6">Dr S S Rao</td><td rowspan="10" colspan="2">  </td></tr>
<tr><td>2</td><td>Designation</td><td colspan="6">Professor</td></tr>
<tr><td>3</td><td>Date of Joining KLEF</td><td colspan="6">14th Nov 2012</td></tr>
<tr><td>4</td><td>Research Group</td><td colspan="6">Robotics and Mechatronics</td></tr>
<tr><td>5</td><td>Area of Interest</td><td colspan="6">Automation, Product Design, NC code Generation</td></tr>
<tr><td>6</td><td>Scopus ID</td><td colspan="6">57204179571</td></tr>
<tr><td>7</td><td>Orcid ID</td><td colspan="6">0000-0001-5246-2774</td></tr>
<tr><td>8</td><td>ResearcherID</td><td colspan="6">K-1842-2012</td></tr>
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<tr><td>10</td><td>Mobile No.</td><td colspan="6">8106330116</td></tr>
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<tr><td>12</td><td>Number of Ph.D’s awarded</td><td colspan="8">02</td></tr>
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<tr><td>22</td><td>Startup Company</td><td colspan="8">SEERAM INNOVATIONS PRIVATE LIMITED
Registered Date: 08-09-2021</td></tr>
</table>

Dr Shaik.Babu

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https://publons.com/researcher/1833036/babu-shaik/

Current Research Interests: Ultrasonics and chemical physics, chemical thermodynamics, ionic liquids, organic and inorganic liquids etc.

Biographical Information:

Dr. Shaik.Babu is working in the Department of physics, Koneru Lakshmaiah Education Foundation (KLEF), Andhra Pradesh, India since 2014. He received his master's Degree (Msc.,Physics) from Bharathidasan University, Tamilnadu in 2005, Master of Philosophy (M.Phil.,Ultrasonics and Chemical physics) from Annamalai University, Tamilnadu in 2007 and Doctoral Degree in physics from Nagarjuna University, Andhra Pradesh in 2014 respectively. He has more than 19 years of teaching and research experience in his career. He is serving as editorial board member and reviewer for many reputed journals. He has successfully guided 4 PhD scholars and 1 more research student is pursuing his doctoral degree. Dr Shaik.Babu has published more than 50 research papers in peer reviewed scientific journals and collaborations with scientists from around the world. Besides these, the results of his research work presented in many international and national conferences. His research citation indices as reported by Citations: 320, Scopus: h-index: 10, i10-index: 10. Till date 2 utility patents have been published to his credit.

Dr. S. SHANMUGAN, M.Sc. (Physics), M.Tech., Ph. D,

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https://www.researchgate.net/profile/Shanmugan_Sengottain
https://www.scopus.com/authid/detail.uri?authorId=45461423000
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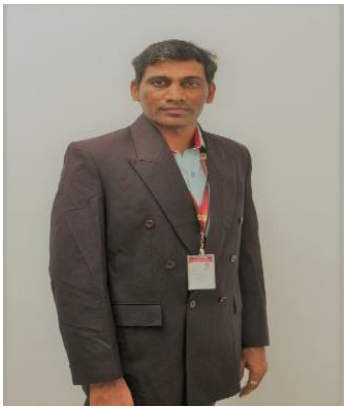

World's Top 2% Scientists awarded by Stanford University (2021, 2022, 2023)

Dr. S. Shanmugan is working as Research Centre for Solar Energy, Asso.Professor in Physics at Koneru Lakshmaiah Education Foundation,Vijayawada, India.A doctorate in Physics with more than 15 years of teaching (12) and research experience (3 – PDF completed), he specializes in heat Material Science. He researches focuses on synthesis and characterization of low cost and high absorption performance of Composite materials specifically TiO_2 and SiO_2 nanocomposites for engineering applications. He has several research papers (201 SCI & Scopus, more than citations-3412, h-index: 32, i-10 index-66 published in reputed international journals and also Patent in 10. He has also authored a book, water chemistry contributed chapters on TiO_2 composites and Smart Materials in books published by Springer&Elsevier Publishing. He is also serving as editorial board member/reviewer for some of the reputed international journals. He is a Ph. D supervisor (16mems) and also guided several Undergraduate (30mems) and Post Graduate Projects (15mems).He responsibilities mainly include establishing academic and research collaborations with universities abroad, faculty and Student mobility through Global Immersion Programmer, promoting joint research projects and publications with international partners and visited 10 countries.

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https://www.scopus.com/authid/detail.uri?authorId=55632324100
https://publons.com/researcher/2677829/swapna-koneru/

Current Research Interests: Glasses and glass-ceramics for electronic, optical and biomedical applications, Photonic crystals, Rare earth doped Nano phosphors for LED applications.

Biographical Information:

Dr. Koneru Swapna is working as Associate professor & HoD in the Department of physics, *Koneru Lakshmaiah Education Foundation (KLEF)*, Andhra Pradesh, India since 2009. She received her master's Degree (Electronics) and Doctoral Degree in physics from Nagarjuna University and K L E F, Guntur, Andhra Pradesh, India, respectively. She has total 18 years of teaching and research experience in her career. She received three best teacher awards for academic years 2015 – 2016, 2016 – 2017 and 2020-21 from KLEF. So far, she has guided/guiding 6 Ph.Ds and guiding 12 post graduate students. For her scientific world, she received women scientist by DST/ WOS-A (2011 - 2014) and Early career research award by SERB - DST (2015 – 2019. She holds research grants of Rs.1 Cr as PI/Co-PI from different funding agencies, since 20011. Her scholarly work is evidenced by more than 63+ scientific journal publications with more than 2521 citations, h-index of 30 and i10-index of 44. Besides these, the results of her research work presented in 55 international and national conferences.

Dr. Vullanki Rajesh

DECE, AMIE, ME, PhD

PROFESSOR, ECE Dept.

25-06-1971

EDUCATION

- Ph.D (ECE), Andhra University, India, Feb – 2012 (Bio-Medical image & Signal processing).
- M.E (Instrumentation Engineering), SRTM University, Nanded, April - 1998.
- GATE (ECE) Qualified - 1996.
- A.M.I. E (ECE), The Institution of Engineers (India), Dec - 1994.
- Diploma (ECE), A.P.S.B.T.E., HYD, Feb - 1990.

FIELDS OF INTEREST

- Bio-Medical image & Signal processing.
- Hand gesture reorganization.
- Telemedicine applications.
- Multispectral Image Fusion.

MEMBERSHIPS

- Fellow at The Institute of Engineers India (F-1292923).
- IETE – Fellow (F-169066).
- ISTE – Life Member (LM32830).

CONTACT

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https://www.webofscience.com/wos/author/record/261447

https://scholar.google.com/citations?user=ukNBEGQAAAAJ&hl=en&authuser=2

RESEARCH PROFILE

	Papers	h-index	Citations	i-10 index
SCI & IEEE	30	07	131	6
Scopus	87	16	818	20
Google Scholar	70	17	1045	28
Total Publications – 157				

Patents – 7	Research Awards – 14
PhD awardees guided – 9	Book Chapters – 9

Research Excellence Award 2023 by Alpha International Publications.
Received World Scientific rankings 2022 by AD Scientific Index.

ACDEMIC PROFIE - 26 Years of Teaching Experience after M.E.,

- 14 years after M.E. (1998) and 12 years after PhD (2012).
- Professor – 14 years.
- Associate Professor – 6 years.
- Assistant Professor – 6 years.
- Subjects – DIP, DSP, AI & ML, LICA, Instrumentation.
- B.Tech & M.Tech projects guided - 52
- Received 5 Best Teacher awards. (2012-13, 13-14, 14-15, 16-17).

ADMINISTRATIVE PROFILE – 18 years of Experience

UNIVERSITY LEVEL (10 years)	**Dean** Planning and Development – 5 years.	• "Sustainable Institutions of India Green Rankings **2023**" – Platinum Band (A++ Grade). • Best Water Management- 'Institution' Award **2023**. • "Greentech International EHS **Award 2023**" under EHS Best Practices Category. • 2nd Prize in Best Water Management by CII in **2022**. • Excellence in Energy Management award by CII in **2022**. • 3rd Prize in Best Waste Management by CII in **2022**. • "State Energy Conservation Award (SECA) **2021 & 2022**" by the Andhra Pradesh State Energy Conservation Mission. • 5-star rating to R&D - Block by GRIHA in **2021**. • "Clean and Smart Campus Award **2020**" (2nd Prize) by AICTE. • "One District One Green Champion" award by GoI in **2020**. • All India first rank as the "Cleanest Higher Educational Institution" award by MHRD in **2019**.
	Dean Faculty and Staff Affairs – 2 years 6 months.	• Foreperson in achievement of NAAC A++ in 2018. • The first initiator for distribution of 155 Lakhs incentives to faculty for achieving NAAC A++. • Obliged person for upgrading 346 tentative employees to permanent cadre.
	Principal Academic Staff College –3 years.	• Organised more than 253 Conferences/Workshops/ Seminars.
	Associate Dean PG Programs – 2y F&SA – 1 year.	• Initiated 7 new PG programs during my tenure.
	SPRG **Group Head** – 2 years.	• Organised 6 International Conferences/Workshops/Seminars.
COLLEGE LEVEL (8 years)	**Principal** of the College –2 years	• Under the leadership Usha Rama College of Engineering received **NAAC 'A'** Grade in 2016. • Ratified as a Principal by JNTU Kakinada. • Organised more than 73 Conf/Workshops/Seminars.
	Head of the Dept – 6 years.	• Under the leadership got NBA in 2007 for the Dept. • Initiated PG Courses in Dept. in 2010. • Organised more than 15 Conf/ Workshops/ Seminars.

Note: The description of the above-mentioned particulars is given in the Detailed CV.
(Multiple designations were assigned during the University tenure)

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ResearchGate Profile
LinkedIn Profile
Website

Dr. Naresh Mameda, Assistant Professor at KL University, has significant experience working for **seven years** in the Academics and Research space. He received his Ph.D. in Chemistry from the **Indian Institute of Chemical Technology (CISR)** in Hyderabad, India, in August 2016. During his Ph.D. research, he prepared micro and mesoporous materials examined to develop C-C, C-N, and C-O bond formations. After obtaining his Ph.D., he moved to the Advanced Institute of Water Industry at Kyungpook National University, South Korea, working as a Postdoctoral Fellow with Prof. Kwang-Ho Choo. Later, he was promoted to **research professor** at Kyunpook National University, Korea. He developed reactive electrified membranes for potential environmental applications as part of his research. So far, he has published **55 peer-reviewed journal articles** and 01 book chapter. Moreover, he is **the guest editor** of special issues in the MDPI journals such as Crystals, Catalysts, and Membranes.

I have been working extensively in advanced electrochemical oxidation, where I have been involved in the synthesis, characterization, and evaluation of novel electro-catalysts for oxidized organic pollutants in real wastewater. In addition, my research is concentrated on Electrochemical oxidation alone and in combination with other treatment processes for industrial effluent treatment.

Professional Career

June. 2022-Present	**Assistant Professor** Department of chemistry Koneru Lakshmaiah Education Foundation (KLEF) Vaddeswaram, GUNTUR-522 502 A.P-INDIA
Apr. 2021-May.2022	**Research Professor** Kyungpook National University School of Architecture, Civil, Environmental and Energy Engineering Daegu, South Korea. Research Topic: *Electrified membrane to treat recalcitrant pollutants.*
Oct. 2016 – Mar.2021	**Post-doctoral Researcher** Kyungpook National University Environmental engineering, Daegu, South Korea. Research Topic: *Electrochemical way to treat recalcitrant pollutants.* Supervisor: Prof. Kwang Ho Choo
Oct. 2010–Jun. 2011	**Trainee Chemist** GVK Bio Sciences PVT Ltd, Nacharam, Hyderabad, Telangana, India.
Jan. 2010-Sep. 2010	**Lecturer, Chemistry, Bachelor of Science** Sri Aurobindo Degree & PG College.

Editorial Activity

Apr. 2020–Present	**Review Editor** Frontiers in Environmental Chemistry,
Apr. 2021-Present	**Topic Editor** Membranes (open access journal published by MDPI)
Dec. 2021-Present	**Guest Editor** (Special Issue) Crystals (MDPI; Web:)
Apr. 2022-Present	**Guest Editor** (Special Issue) Catalysts (MDPI; Web:)
Feb.2022-Present	**Guest Editor** (Special Issue) Membranes (MDPI; Web:)
Jan.2023-Present	**Guest Editor** (Special Issue) Materials (MDPI; Web:)

Academic Qualifications

Jun. 2011 – Jul. 2016 **Doctor of Philosophy (PhD), Chemistry**
CSIR-Indian Institute of Chemical Technology, Telangana, India.
Supervisor: Dr. N. Narender

Thesis title: Development of Zeolite Catalyzed C-C, C-N and C-O Bond Formation Reactions and Oxidative Halogenations Using Ammonium Bromide and Oxone.

Jun. 2007 – May 2009 **Master of Science (M.Sc.), Organic Chemistry**
Osmania University, Hyderabad, Telangana, India.

Jun. 2004 – May 2007 **Bachelor of Science (B.Sc.), Botany, Zoology & Chemistry**
Kakatiya University, Warangal, Telangana, India.

Academic Honours and Awards

Jun. 2013 **Senior Research Fellowship** (SRF)
Received from Council of Scientific and Industrial Research (CSIR), India.

Jun. 2011 **Junior Research Fellowship** (JRF)
Received from Council of Scientific and Industrial Research (CSIR), India.

Jun. 2010 **Joint CSIR-UGC TEST for Junior Research Fellowship & Lectureship**
Qualified all India level conducted by CSIR, India.

Dr. V A RAMA SASTRY DEVULAPALLI
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Scopus Author ID: 57375713800

Current Research Interests: Currently, Dr. Ramasastry's research is focused on.

(1) Mechanical Vibration control
(2) Thermal imaging-based studies on surface thickness, welding
(3) Composite material characterisation studies

Biographical Information:

DVA Ramasastry, holds a Ph.D. in Mechanical Engineering from J.N.T. University, Kakinada. He earned his Master of Technology in Machine Design in distinction at J.N.T. University, Hyderabad and B.Tech in Production Engineering, in distinction from V.R. Siddhartha Engineering College, Vijayawada - Nagarjuna University.

He has been in academics since 2001, currently serving as an Associate Professor at Koneru Lakshmaiah Education Foundation. His career showcases consistent academic excellence, with leadership roles including Head of Mechanical Engineering Department and contributions as Associate Dean and Machine Design Research Group Head at KLEF.

Research Contributions:

- Worked as Co-PI of a successfully completed Project entitled "Development, Testing and Optimization of MRF dampers", being funded by DST worth 2 crores 97 lakhs rupees.
- Co-PI of the ongoing Project entitled "Development of a non-stationary thermal wave imaging-based system for quantitative coating thickness evaluation and subsurface anomaly detection", sponsored and funded by Naval Research Board worth around 26 lakhs rupees.
- Co-PI of the ongoing Project entitled "Thermal imaging of welds" sponsored by LPSC- ISRO worth around 12 lakhs rupees
- Published 25+ papers in Scopus/ SCI indexed journals and presented paper in 10 conferences.
- Published four design patents.

Selected Publications list

1. Bhadrakali, A.S., Sastry, D.V.A.R., Chigilipalli, B.K. et al. Effect of heat input on microstructure and mechanical properties of bimetallic wire arc additive manufacturing of SS304L and ER308L prepared by hybrid manufacturing process. International Journal on Interactive Design and Manufacturing (2023).(Article in Press)
2. Bhadrakali, A. S., D. V. A. Rama Sastry, and T. R. Prabhu. 'A Hybrid Approach Consisting of Multi-Objective and Multivariate Analyses for WAAM Specimens'. Engineering Research Express 5, no. 2 (2023).
3. Vesala, G. T., V. S. Ghali, D. V. A. Rama Sastry, and R. B. Naik. 'Thermal Wave Mode Decomposition for Defect Detection in Non-Stationary Thermal Wave Imaging'.Mapan - Journal of Metrology Society of India 38, no. 1 (2023): 133–45.
4. Ainapurapu, S. B., V. A. R. Devulapalli, et.al. 'Microstructure and Mechanical Properties of the Bimetallic Wire Arc Additively Manufactured Structure (BAMS) of SS304L and SS308L Fabricated by Hybrid Manufacturing Process'. Transactions of the Indian Institute of Metals 76, no. 2 (2023): 419–26.
5. Vesala, G. T., V. S. Ghali, D. V. A. R. Sastry, and R. B. Naik. 'Deep Anomaly Detection Model for Composite Inspection in Quadratic Frequency Modulated Thermal Wave Imaging'. NDT and E International 132 (2022).
6. Kazi, A. M., R. D. V. A., and S. Waddar. 'Characterization of Interwoven Roselle/Sisal Fiber Reinforced Epoxy Composites'. Polymer Composites 43, no. 3 (2022): 1421–28.
7. Kazi, A. M., and R. Dva. 'Characterization of Continuous Hibiscus Sabdariffa Fibre Reinforced Epoxy Composites'. Polymers and Polymer Composites 30 (2022).
8. Kazi, A. M., D. Devika, S. Waddar, and R. D. V. A. 'Characterization of Roselle Fiber Composites for Low Load Bearing Structures'. Polymer Composites 42, no. 5 (2021): 2589–97.
9. Rama Sastry, D. V. A., K. V. Ramana, and N. Mohan Rao. 'Analysis and Prediction of Performance of Mr Damper at Different Currents and Control Strategies for Quarter Suspension System of a Roadway Vehicle'. International Journal of Vehicle Structures and Systems 11, no. 1 (2019): 27–32.
10. Sastry, D. V. A. R., K. V. Ramana, N. M. Rao, M. P. Kumar, and V. S. S. R. C. Reddy. 'Evaluation of Human Exposure to Vibrations Using Quarter Car Model with Semi-Active Suspension'. International Journal of Vehicle Structures and Systems 10, no. 4 (2018): 268–72.

Dr. Priyaranjan Sharma currently holds the position of Associate Professor in the Mechanical Engineering Department at KL University in Vijayawada, Andhra Pradesh. Previously, he served as a postdoctoral fellow at the Indian Institute of Technology (IIT) Bombay within the Electrochemical Microfabrication Laboratory from 2019 to 2021. His doctoral degree was earned from the National Institute of Technology (NIT) Karnataka. Accumulating over 8 years of teaching and research experience, Dr. Sharma has contributed to esteemed organizations such as JK Groups (2016-2019) and RV Institutions (2022-2023). As a young researcher, he boasts an impressive record, having published around 19 research articles in reputed SCI Indexed international journals, securing three patents, and writing two book chapters for prestigious publishers like Elsevier and Springer. Additionally, he has showcased his research at esteemed international conferences held in the USA, Israel, Dubai, and other locations. In the early stages of his doctoral research in 2014, Dr. Sharma successfully completed the 'Boeing Aircraft Project.' His dedication to research excellence is underscored by his recognition as the recipient of the Seed Money Research Grant in 2023 at KL University, Vijayawada. Beyond his academic/research pursuits, Dr. Sharma is a certified Design Thinking Expert actively engaged in various student activities at KL Campus. He is committed to inspiring students to participate in startup initiatives and engage in activities related to social innovations.

Dr. M. Raju

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Phone: 8141293117
RelatedLinks: *https://scholar.google.co.in/citations?user=TeTX7B4AAAAJ&hl=en*
https://www.scopus.com/authid/detail.uri?authorId=58399913700

https://www.webofscience.com/wos/author/record/AFJ-9685-2022

Current Research Interests: Dr. M. Raju's research is focused on following broad areas

1) Isolation and characterization of natural products from various resources.
2) Design and development of nanobiosensors/imaging agents for healthcare and environmental applications.
3) Expertise in the development of diagnostic kits for healthcare.
4) Chemosensing/Coordination chemistry/Bio-inorganic chemistry.

Biographical Information:

Dr. M. Raju obtained his B. Sc. degree from Kakatiya University, Telangana in 2007, and his M. Sc. degree in Chemistry from Osmania University, India in 2009. He was awarded CSIR-UGC NET in DEC-2012. He obtained Doctor of Philosophy from CSIR-CSMCRI on "Identification and Biotechnological Applications of Siderophores" in 2018. Subsequently, he worked as Research Associate at National Institute of Hydrology, Roorkee from 2018 to 2020. Following this, Dr. Raju received prestigious 'DST-SERB National Post Doctoral Fellowship (NPDF) Award' and served as Post-Doctoral fellow at University of Hyderabad, from 2020 to 2022. He has 19 publications to his credit with 15 indexed in SCI and SCOPUS. Additionally, he authored 1 book chapter, holds 3 granted patents, and is currently guiding 2 Ph.D. scholars. Presently, he is working as an Assistant Professor in the Department of Chemistry at K L University, Hyderabad.

Selected Publications:

1. **Raju, M.***, Damarla, K. and Pappula, V.N. 'Preparation and characterization of carrageenan embedded lanthanum iron oxide nanocomposite for efficient removal of arsenite ions from water', *Analytical Methods*, 2022, 14, 449-459.
2. **Raju, M.**; Srivastava, S.; Nair, R.R.; Raval, I.H.; Haldar, S. and Chatterjee, P.B. 'Siderophore coated magnetic iron nanoparticles: Rational designing of water soluble nanobiosensor for visualizing Al^{3+} in live organism', *Biosensors and Bioelectronics*, 2017, 97, 338-344.
3. **Raju, M.**; Nair, R.R.; Debnath, S. and Chatterjee, P.B. 'Affinity Directed Surface Functionalization of Two Different Metal Nanoparticles by a Natural Ionophore: Probing and Removal of Hg^{2+} and Al^{3+} Ions from Aqueous Solutions' *Inorganic Chemistry*, 2019, 58, 1674-1683.
4. **Raju, M.**; Nair, R.R.; Raval, I.H.; Srivastava, S.; Haldar, S. and Chatterjee, P.B. 'Natural ionophore functionalized nanobiosensor capable of staining Cr^{3+} in live brine shrimp Artemia', *Sensors and Actuators B: Chemical*, 2018, 266, 337-343.
5. **Raju, M.**; Nair, R.R.; Raval, I. H.; Haldar, S. and Chatterjee, P.B. 'A water soluble Cu^{2+}-specific colorimetric probe can also detect Zn^{2+} in live shrimp and aqueous environmental samples by fluorescence channel', *Sensors and Actuators B: Chemical*, 2018, 260, 364-370.
6. **Raju, M.**; Nair, R.R.; Raval, I.H.; Haldar, S. and Chatterjee, P.B. 'Reporting a new siderophore based Ca^{2+} selective chemosensor that works as a staining agent in the live organism Artemia', *Analyst*, 2015, 140, 7799-7809.
7. **Raju, M.**; Patel, T.J.; Nair, R.R. and Chatterjee, P.B. 'Xanthurenic acid: a natural ionophore with high selectivity and sensitivity for potassium ions in an aqueous solution', *New Journal of Chemistry*, 2016, 40, 1930-1934.
8. **Raju, M.**; Nair, R.R.; Raval, I.H.; Haldar, S. and Chatterjee, P.B. 'Visualizing Zn^{2+} in Living Whole Organism Artemia by a Natural Fluorimetric Intermediate Siderophore', Chemistry Select, 2017, 2, 6407-6412.
9. **Raju, M.**; Soundarya, R.; Srivastava, S.; Bharadwaj, S.V.V.; Boricha, V.P.; Mishra, S. and Chatterjee, P. B. 'Identification of a New Siderophore Acinetoamonabactin Produced by a Salt Tolerant Bacterium Acinetobacter soli', *Chemistry Select*, 2018, 3, 8207-8211.

Prof. Dr. Gandharba Swain

M.C.A, VSS Univ of Technology, Burla; **M.Tech. CSE**, NIT, Rourkela; **Ph.D. CSE**, SOA Univ, Bhubaneswar.

Professor in Computer Science & Engineering, and
Head of the Department - Artificial Intelligence & Data Science,
Koneru Lakshmaiah Education Foundation (Deemed to be University),
Vaddeswaram-522302, Guntur, Andhra Pradesh, India
E-Mail: gswain1234@gmail.com, gandharba.swain@kluniversity.in
Mobile No: 91-9573975571, 7978778276

- Listed among **top 2%** researchers of the world in the years 2020, 2021, 2022 and 2023 declared by Stanford University in association with Elsevier.

RESEARCH EXPERIENCE: Active in research since 2010 concurrently with teaching.

- Pursued PhD in the area of "**Digital image steganography**", during 2010-2014. Have addressed several research problems like, (i) fall off boundary problem, (ii) range mismatch problem, (iii) fall in error problem, (iv) detection by RS analysis, (v) detection by pixel difference histogram analysis, and (vi) avoidance of unused blocks in adaptive PVD steganography.
- Present research interests are, (i) **watermarking for tamper detection**, and (ii) **Block chain technology**
- Guided 9 PhD scholars in topics of data security security and networks

PROFILES ONLINE

1. **Google scholar:** https://scholar.google.co.in/citations?user=HExTTRMAAAAJ&hl=en
2. **Scopus:** https://www.scopus.com/authid/detail.uri?authorId=37091536600
3. **Publon:** https://publons.com/researcher/2326568/dr-gandharba-swain/
4. **Research gate profile:** https://www.researchgate.net/profile/Gandharba-Swain
5. **Orcid Id:** https://orcid.org/0000-0001-6586-1432

PUBLICATIONS COUNT

No. of research articles authored = 94

- **SCIE** and **Scopus** indexed journal articles = 26, **ESCI** and **Scopus** indexed journal articles = 19
- **Scopus** indexed journal articles = 16, **Scopus** indexed book chapters = 2
- **Scopus** indexed conference articles = 19, Google scholar indexed journal articles = 12

No of books authored = 2, No of patents published = 3

SELECTED PUBLICATIONS

1. Reshma Sonar, **Gandharba Swain,** Steganography based on quotient value differencing and pixel value correlation, CAAI Transactions on Intelligence Technology, 2021, **SCIE** (Q1)
2. S N V J Devi Kosuru, **Gandharba Swain**, Naween Kumar, Anita Pradhan, Image tamper detection and correction using Merkle tree and remainder value differencing, Optik, 2022, **SCIE,** (Q2)
3. Dipak Bhayyaji Khadse, **Gandharba Swain,** Data hiding and integrity verification based on quotient value differencing and Merkle tree, Arabian Journal for Science and Engineering, 2022, **SCIE,** (Q1)
4. S. N. V. J. Devi Kosuru1, Anita Pradhan, K. Abdul Basith, Reshma Sonar, Gandharba Swain, Digital Image Steganography with Error Correction on Extracted Data, **IEEE Access**, 2023, **SCIE,** (Q1)
5. Erukala Suresh Babu, Mekala Srinivasa Rao, **Gandharba Swain**, A Kousar Nikhath, Rajesh Kaluri, Fog-Sec: Secure end-to-end communication in fog-enabled IoT network using permissioned blockchain system, International Journal of Network Management, 2023, **SCIE** (Q2)
6. Anantha Rao Gottimukkala , Naween Kumar, Jatindra Kumar Dash , **Gandharba Swain**, Image watermarking based on remainder value differencing and extended Hamming code, Journal of Electronic Imaging, **SCIE,** (Q3).
7. Hyder Ali Hingoliwala, Naween Kumar, Anand Nayyar, **Gandharba Swain,** Energy-efficient Neuro-fuzzy-based Multi-node Charging Model for WRSNs using Multiple Mobile Charging Vehicles, Computer Communications, 2024, **SCIE,** (Q1).

Dr.W.SRIDHAR
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Associate Professor
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https://www.webofscience.com/wos/author/record/S-7182-2018

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https://scholar.google.co.in/citations?user=OLHMhwYAAAAJ&hl=en

https://www.researchgate.net/profile/W-Sridhar

Dr.W.Sridhar is a distinguished Faculty in Mathematics. He has been teaching Under Graduate and Post-Graduate students since2003. He received M.Sc from Andhra University, Visakhapatnam, M.Phil from Sri Venkateswara University, Tirupati and Ph.D from Adikavi Nannaya University, Rajamahendravaram, India. He qualified APSET in 2014. Presently, he is working as Associate Professor K L Deemed to be University He published 70 research papers in various SCI/SCIE/Scopus/UGCcare indexed journals, published one book with LAMBERT and delivered talks in various national and international conferences. Under his supervision, one scholar awarded Ph.D and 2 scholars are working. His research interests include Heat and Mass Transfer, MHD, Porous media, Computational Fluid Dynamics, Numerical Methods. He is a Life Member of Indian Society for Theoretical and Applied Mechanics, IAENG, IIETA. He received the Associate Fellow from AP Akademy of Sciences, Amaravati and Fellow from SAS society. He serves as Reviewer for several refereed peer reviewed journals.

Dr. ARUNMETHA S

Associate Professor, Dept. of ECE
Centre for Advanced Energy Studies (CAES)
& Centre for Flexible Electronics (CFE)
Cabin no: C611, C Block
Koneru Lakshmaiah Education Foundation (Deemed to be University)
Green Fields Campus, Vaddeswaram, Guntur, AP, 522302 INDIA

Google Scholar : https://scholar.google.com/citations?hl=en&user=idsvLPUAAAAJ
Scopus : https://www.scopus.com/authid/detail.uri?authorId=55574396000
Web of Science : https://www.webofscience.com/wos/author/record/O-3031-2017
Contact : **+91 9994831313, E-Mail: sarunmetha@gmail.com; sarunmetha@kluniversity.in;**

Research Area & Expertise

- Nanomaterials for Energy and Environmental applications - Photovoltaic and Hydrogen Evolution
- Design and fabrication of Nano Devices – Sensors and EMI Shielding
- Design and Development of Energy Harvesting for IoT Devices

Work Experience

Designation	Period	Name of the Organization
Associate Professor	2022-Till date	KL University, India
National Postdoctoral Fellow	2016-2018	Crystal Growth Centre, Anna University, India
Assistant Professor	2016-2016	ECE, Adhiyaman college of Engineering, Hosur
Research Scholar	2011-2016	CNST, KSRCT, Tiruchengode, India

Education Background

Qualification	Name of the Institution/ University
Doctor of Philosophy (Ph.D.)	Anna University, India
Master of Technology (M. Tech)	Anna University, India
Bachelor of Engineering (B.E)	Anna University, India

Funded Projects

- **DST- SERB - Teacher's Associateship for Research Excellence (December 2021-2024) PI :** in Collaboration with CSIR CECRI, Karaikudi, Project entitled, Development of Heterostructure Materials for an Efficient Photocatalytic and Photoelectrochemical Water Splitting toward Green Energy Harvesting, Mentor: Dr. M. Sathish, **18.30 Lakhs** Funded by DST-SERB, New Delhi. [on-going]
- **DST-PURSE (2023-2027) PIG**: "Novel Low Dimensional Materials and Flexible Dielectrics for Optoelectronic and Microwave Devices" *funded by DST through PURSE Scheme* (Rs. **700 Lakhs)** [on-going]
- **UGC-DAE Consortium for Scientific Research (June 2022-2025) PI:** in collaboration with UGC-DAE CSR, Kalpakkam Node, Develop Nanostructured materials for Efficient Solar Energy Conversion Applications, Mentor: Shamima Hussain, **3.5 Lakhs**, Funded by UGC-DAE, New Delhi. [on-going]
- **DST-SERB-National Postdoctoral Fellow (September 2016 – 20218) PI:** Crystal Growth Centre, Anna University, Chennai-25 (Project: Development of Photoanode and Counter electrode materials for cost-effective DSSCs using Naturally derived nanomaterials. Mentor: Prof. R. Jayavel, **19.20 Lakhs**, Funded by DST-SERB, New Delhi. (Completed)
- **CSIR-Senior Research Fellowship, (October 2014 – May 2016) PI:** Centre for Nano Science & Technology, KSRCT, Tiruchengode (Project: Fabrication of nanostructured metal/ metal oxide-based polymer photovoltaic device for solar energy conversion, Guide: Prof. V. Rajendran, **4.0 Lakhs**, Funded by CSIR, New Delhi. (Completed)

Publications

Peer-reviewed Journals WoS & Scopus Index		Conference /Symposia Proceedings		Books and Chapters	Patent	Invited talk(s)	h-index / i-10 index
International	National	International	National				11
41	9	10	5	5	4	15	13

Dr. Vivekananthan Venkateswaran

Associate Professor
Center for Flexible Electronics
Department of Electronics & Communication Engineering
Cabin no: C610A2, C Block, KL University, Green Fields Campus,
Vaddeswaram, Guntur, Andhra Pradesh

Google Scholar : https://scholar.google.co.kr/citations?user=wXWd1XAAAAAJ&hl=en
Scopus : https://www.scopus.com/authid/detail.uri?authorId=57193266678
Web of Science : https://www.webofscience.com/wos/author/record/K-9130-2019
Contact : **+91-8012945004,** **E-Mail: vivek@kluniversity.in**

Research Area & Expertise

- Nanoelectronics
- Functional Nanomaterials & Polymers
- Energy Harvesting (TENGs & PENGs)
- Self-powered Sensors and Systems

Work Experience

Designation	Period	Name of the Organization
Associate Professor	2022-Till date	KL University, India
Research Associate	2021-2022	University of Surrey, United Kingdom
Post-Doctoral Associate/ PI	2019-2021	Jeju National University, South Korea
Research Assistant	2016-2019	Jeju National University, South Korea
Project Associate	2015-2016	Indian Institute of Technology, India

Education Background

Qualification	Name of the Institution
Doctor of Philosophy (Ph.D.)	Jeju National University, South Korea
Master of Technology (M. Tech)	Anna University, India
Bachelor of Engineering (B.E)	Anna University, India

Funded Projects

- **Principal Investigator:** "Development of Energy-Autonomous Electronic Skins based on Soft Hybrid Materials for Artificial Humanoids", ***funded by National research Foundation of Korea*** through Creative challenge Support Program **(USD 150,000) [Completed]**
- **Principal Investigator:** "Development of Piezoelectric and Triboelectric Array-based Self-powered Sensors for Rehabilitation Applications" ***funded by The Royal Society of Chemistry, United Kingdom*** through Researcher Grant **(GBP 4000) [on-going]**
- **Principal Investigator:** "Triboelectric Nanogenerator based E-Textiles for Energy Harvesting and Self-Powered Sensing" ***funded by KLEF through Internal Funding Project*** **(Rs. 10,00,000) [on-going]**
- **Co-Coordinator: "Novel Low Dimensional Materials and Flexible Dielectrics for Optoelectronic and Microwave Devices"** ***funded by Department of Science and Technology (DST), Government of India, through PURSE Scheme*** **(Rs. 7,00,00,000) [on-going]**

Selected Publications

- **Vivekananthan V et. al.,** "Revolutionizing self-powered robotic systems with triboelectric nanogenerators". ***Nano Energy. 2023 Oct 1;115:108729*****. [Impact Factor- 17.5]**
- **Vivekananthan V et. al.,** "Crystalline Porous Material-Based Nanogenerators: Recent Progress, Applications, Challenges, and Opportunities". ***Small. 2023: 2306209*****. [Impact Factor- 13.3]**
- **Vivekananthan V et. al.,** "Carbohydrate–protein interaction-based detection of pathogenic bacteria using a biodegradable self-powered biosensor"**,** ***Journal of Mater. Chem. C.*** **[Impact Factor- 7.0]**
- **Vivekananthan V et. al.,** "Synergetic enhancement of energy harvesting performance in triboelectric nanogenerator using ferroelectric polarization for self-powered IR signaling"**,** ***Journal of Mater. Chem. A.*** **[Impact Factor- 11.9]**
- **Vivekananthan V et. al.,** "Piezophototronic gated optofluidic logic computations empowering intrinsic reconfigurable switches" ***Nature Communications.*** **[Impact Factor- 16.6]**

Dr. SR. Srither, Ph.D.
Associate Professor
Department of Electronics & Communication Engineering
Email: srither10@kluniversity.in
Mobile: +91 9843399570

Education:

B.E., Electronics & Communication, St. Joseph's College of Engineering, Anna University, 2009
M.Tech., Nanoscience & Nanotechnology, K.S. Rangasamy College of Technology, Anna University, 2011
Ph.D., Nanotechnology, Anna University, 2016

Biography:

Dr. SR. Srither, an Associate Professor in the Department of Electronics & Communication Engineering, is a distinguished researcher who specializes in self-powered sustainable flexible energy harvesting, namely triboelectric energy harvesting. His pioneering work on scavenging power from mechanical sources such as walking, wind, vibration, and ocean waves has established him as an expert in the field. He has synthesized several nanomaterials and metal oxides with varied morphologies to build a new type of energy harvester tribo/piezo or hybrid-based systems. He gained knowledge of how to create a new triboelectric pair combination using electron affinity and material parameters. Dr. Srither has published 22 research papers in reputed international journals on interdisciplinary areas. He received his M.Tech and Ph.D. degrees in nanotechnology from Anna University, Chennai, India.

His work experience includes key positions as a Research Associate I & II at the Centre for Nano and Soft Matter Sciences (CeNS) in Bengaluru, India, started in 2016. In 2018, he began working as a postdoctoral fellow at Southern University of Science and Technology (SUSTech) in the Departments of Physics and Electrical and Electronic Engineering. During this period, he was also a Visiting Professor at KL University, working with a project-based external contractor in the Department of Physics at SUSTech in China.

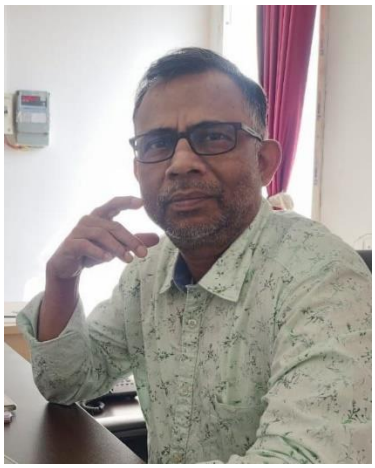
Currently, he is focusing on various flexible polymers to construct Wearable Triboelectric Nanogenerators (TENGs) for portable electronics and wearable applications. Additionally, he has initiated research on his Ph.D. topic, exploring advancements in supercapacitors.

Research Interests:

- Synthesis and characterization of nanostructures and nanocomposite materials
- Construction of primary cells and electrochemical capacitors
- Fabrication of tribo/piezo harvesters for a variety of self-powered, flexible applications
- Customization of nanogenerators for use in health monitoring and IoT-enabled devices.

Publication links:

Scopus: https://www.scopus.com/authid/detail.uri?authorId=55604960400
Researcher ID: https://publons.com/researcher/4398066/srither-sr/
ORCID ID: https://orcid.org/0000-0003-0926-9025



Prof. Debnath Bhattacharyya

Presently Dr. Bhattacharyya is an Invited International Professor of Lincoln University, KL, Malaysia; and Visiting Professor, University of Johannesburg, Johannesburg, South Africa.
He was the former Foreign Professor, Department of Multimedia Engineering, Hannam University, South Korea.
He received his Ph.D. (Tech., Computer Science and Engineering) from the University of Calcutta, Kolkata, and received his M.Tech (Computer Science and Engineering) from West Bengal University of Technology, Kolkata, India.
Dr. Bhattacharyya is the **Senior Member ACM**, ACM SIGKDD, **Senior Member IEEE**, **Life Member of CSI**, India, Senior Member of IACSIT, Singapore and Senior Member of IAENG, Hong Kong. He was the ACM Distinguished Speaker (2017-2021).
He is the Editor of Many International Journals (indexed by Scopus, SCIE, and Web of Science).
He visited many Foreign Countries for presenting his research findings, Lectures / working as International Professor in Universities.
He Published 276 Scopus Indexed Papers with H-Index 19, and 149 Web of Science Papers with H-Index 13.
His research interests include Security Engineering, Image Processing, Pattern Recognition, Biometric Authentication, Data Mining and Evolutionary Computing. In addition, He is serving as a reviewer of various International Journals of Springer, Elsevier, IEEE, etc., and International Conferences.
Dr. Bhattacharyya is organizing state-of-the-art Conferences every year. He published 6 textbooks for Computer Science and working as the editors of books.

PhD Completed under my Supervision: 08,
PhD Ongoing: 04

Indian Patent published: 08 (2018 to 2023).
Indian Patent Granted: 3 Design Patents and 1 Utility Patent (November 2023).

Current Funded Project: 1 consultancy project, sole owner.

Scopus:
https://www.scopus.com/authid/detail.uri?authorId=56004542400

Google Scholars:
https://scholar.google.co.in/citations?user=B0MKrZAAAAAJ

IEEE:
https://ieeexplore.ieee.org/author/37294645100

ORCID:
https://orcid.org/0000-0003-0140-9644

ACM:
https://dl.acm.org/profile/81318487713
https://awards.acm.org/award-recipients/bhattacharyya_2415771

Web of Science:
https://www.webofscience.com/wos/author/record/1651800,15070529,46594490

Contact:
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debnath.b@ieee.org
debnathb@gmail.com

Research Profile

Dr. RAMESH ADE
Assistant Professor
Department of Physics
Koneru Lakshmaiah Education Foundation
(Deemed to be University) Hyderabad, Telangana, India
Contact: +91 9000955238
Email: ramesh.ade1983@gmail.com, ramesh.ade@klh.edu.in

Ph.D details

- **Ph.D Physics (2010-2016):** University of Hyderabad, Telangana, India.
  Thesis Title: Structural, Magnetic and Transport Properties of Bismuth and Rare Earth Manganites

Research Experience

- **Institute Post-Doctoral Fellow(June 2016- September 2018) :** MEMS, Indian Institute of Technology Bombay
- **Post-Doctoral Fellow (October 2018- September 2020):** Center for Condensed Matter Sciences, National Taiwan University, Taiwan.

Teaching Experience

- **Assistant Professor (February-2021 to April 2022)**: Anurag Engineering College, Suryapet, Telangana, India
- **Assistant Professor (June-2022-till date):** KLEF (Deemed to be University) Hyderabad, Telangana, India

Research Interest

- Complex Oxides, Bulk and Thin Films, Magnetism, Dielectrics, Multierroics**,** Spintronics and Optoelectronics

Publications

- Journal Publications: 30
- Conference Proceedings: 03
- Book Chapter: 01
- Citations: 193: h-Index: 08: i10-Index: 07

Projects

- **SERB-SRG**
  Project Title: Development of low damping epitaxial spinel ferrite thin films: Advancement in the field of insulator spintronics
  Project File Number: SRG/2023/001867: Project Budget: 25 lakhs**.**

Fellowships and Awards

- Qualified CSIR-JRF (NET)) in December 2009.
- Qualified GATE) in 2010 (All India 203 Rank).

Links

- **Google Scholar:** ttps://scholar.google.com/citations?user=tDIYiNkAAAAJ&hl=en
- **Scopus:** https://www.scopus.com/authid/detail.uri?authorId=55428637400
- **Scopus ID:** 55428637400
- **Web of Science:** https://www.webofscience.com/wos/author/record/AAG-4402-2019
- **ResearchGate:** https://www.researchgate.net/profile/Ramesh-Ade-2

Professor Jarupula Somlal

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Related Links: https://www.linkedin.com/in/dr-jarupula-somlal-a113374b/
https://www.scopus.com/authid/detail.uri?authorId=39862097900
https://www.webofscience.com/wos/author/record/AGW-8353-2022

Dr.J. Somlal worked as Head of the Department of EEE, K L Deemed to be University. Presently working as Professor of EEE Department, Deputy Coordinator of FED & Associate Dean (KL-ACE), K L Deemed to be University, Guntur, Andhra Pradesh, India. He received B.Tech degree in EEE and M.Tech., (Power Systems) from J.N.T.U, Hyderabad, Telangana, and obtained Ph.D in Electrical & Electronics Engineering from Acharya Nagarjuna University, Guntur, Andhra Pradesh. He published 34 Research papers in various SCIE & Scopus indexed National and International Journals and presented more than 28 research papers in various National and International Conferences. He Completed a Sponsored funding project worth of 19.2 Lakhs from SERB, Govt., of India and conducted a SERB sponsored International Conference. 5 patents are also to his credit. Published 3 Books with reputed Publishers. 3 Research scholars completed Ph.D Degree, One student Submitted thesis and 5 scholars are pursuing Ph.D degree under the guidance of Dr.Somlal. He received more than 8 Awards like "BEST TEACHER AWARD, BEST OUTSTANDING FACULTY AWARD & YOUNG SCIENTIST AWARD" from various National and International bodies.

Current Research Interests: Currently, Dr. J Somlal's research is focused on three broad areas.

(1) Intelligent Controller Based Shunt Hybrid Active Power Filter for Power Conditioning
(2) Modular Multilevel Inverter Based Single Stage Three Phase Grid Connected PV System Using Dual Strategy Compensation.
(3) Energy Management of Islanded Hybrid AC/DC Microgrid

FUNDING PROJECTS COMPLETED:

(1) Completed a funding project worth of 19.2 Lakhs from SERB-DST for the project entitled "Fuzzy Based Space Vector PWM Controlled Shunt Hybrid Active Power Filter for Power Conditioning" (Ref.No: SB/EMEQ-321/2014) on 30th July, 2017.
(2) Conducted a SERB sponsored National Conference on Emerging Trends in Smart Grid Technology, 7th and 8th Feb, 2020. Amount Granted:0.75Lakhs

PATENTS PUBLISHED:

(1) Kandagatla Aravind, Jarupula Somlal, "System and Method for Magnetic Separation Based Water Purification", Govt. of Indian Patents, Application No: 202041008619 A (36/2021), 03-09-2021.
(2) Wallaaldin Eltayeb, Dr. J. Somlal, Dr. S. Shanmugan, Dr. Sonu Kumar, Dr. S. Koteswara Rao, "A Solar Cooker Based on Coupled Solar Parabolic Concentrator and Fresnel Lens with Tracking System", Govt. of Indian Patents, Application No: 374416-001, 13-01-2023.
(3) Dr. Sonu Kumar, Wallaaldin Eltayeb, Dr. S. Koteswara Rao, Dr. J. Somlal, "A Solar-Wind Hybrid Energy Tree", Govt. of Indian Patents, Application No: 367676-001, 19-05-2023.

TOP JOURNAL PUBLICATIONS:

(1) Prathikantham Buchibabu, Jarupula Somlal (2023): Green energy management in DC microgrids enhanced with robust model predictive control and muddled tuna swarm MPPT, Electrical Engineering, Springer Nature, Vol.17, 2023. https://doi.org/10.1007/s00202-023-02127-4 SCIE & Scopus indexed. IF:2
(2) Eltayeb, Wallaaldin Abass; Somlal, Jarupula; Kumar, Sonu; Rao, S. Koteswara (2023): Design and analysis of a solar-wind hybrid renewable energy tree, Results in Engineering, Vol.17, 2023. DOI:10.1016/j.rineng.2023.100958 SCIE & Scopus indexed.
(3) C Sriram, J Somlal, BS Goud, M Bajaj, MF Elnaggar, S Kamel (2022): Improved Deep Neural Network (IDNN) with SMO Algorithm for Enhancement of Third Zone Distance Relay under Power Swing Condition, Mathematics, 10(11), 1944; https://doi.org/10.3390/math10111944. SCIE & Scopus indexed. I.F:0.540
(4) Cholleti Sriram & Jarupula Somlal (2022): IM-DWT with DNN Based Blocking Scheme of Third Zone Distance Relay in Power Swing Condition, Smart Science, Taylor & Francis Publisher, DOI: 10.1080/23080477.2021.2023790. ESCI & Scopus indexed. I.F:0.540
(5) Reddy, M.R.N., Somlal, J., Rao, S.A.: Design of fractional order PID and propotional resonant controller for enhancement of voltage regulation in multi-bus microgrid system. Journal of Green Engineering 10(9), 5421–5436(2020). I.F:2.056
(6) Pabbuleti, B., Somlal, J.: Power management of bidirectional inter-allied converter community in hybrid AC/DC microgrid using localised distributed fuzzy logic controller. International Journal of Heavy Vehicle Systems, Inderscience. SCIE indexed . I.F:0.540.

Research Profile of Dr. JKR Sastry

Qualifications (UG, PG and Doctorate	**BE (Electrical (Andhra University)**	**ME (ECE) (Andhra University)**	**MBA (Mgt) (Andhra University)**	**M. Sc (Statistics) (Andhra University)**	**PhD(CSE) (JNTU Hyderabad)**	**P.hD (Mgt) (Andhra University)**	
Qualifications (Diplomas)	**Russian Language {Andhra University**	**Programming (CMC)**	**Real-Time Data Management (IHC-Holland)**	**Public Sector Management (UK – Leeds)**	**Project Management (ASCII)**	**Managing MOU(IIM-Calcutta)**	
Total Number of Years of Experience	**48 Years**	**IT Experience**	**28 Years**	**Academic Experience**	**20 Years**	**Research Experience**	**20 Years**
Focussed Areas of research	**Embedded Systems**	**IoT**	**Cloud Computing**	**WEB technologies**	**Software Engineering**	**AI**	**Cognitive systems**
Number of Papers Published	**250**	**Number of Scopus Indexed Papers**	**140**	**Number of SCI Indexed**	**20**	**Number of Other Indexed**	**90**
Number of PhDs awarded (30)				**Outside KLU**	**10**	**Within KLU**	**20**
Number of Citations (769)				**SCOPUS**	**575**	**WOS**	**194**
H-Index							**11**
Number of sponsored projects					**1**	**Amount**	**11Lacks**
Numbers of Patents						**Published**	**1**
Honours	**First Dean (R&D) and First DEAN (P&D) of KLEF University**						
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College: GIET, Gunupur, Odisha
Intermediate (10+2)
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College: Oriental college Patna city, Patna
Matriculation (10th)
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School: High school Ramgarh, Bhabua (Bihar)

Research Interests

Developing novel artificial intelligence (AI) and machine learning (ML) techniques towards the innovative solution for forecasting and estimation in hydrological, healthcare, agriculture, climatical, water resources management and other interdisciplinary fields; suspended sediment modeling in rivers; forecasting and estimating hydrological variables like precipitation, floods, streamflow, groundwater, lake level using various AI and machine ML techniques; Applications of AI and ML in inter-disciplinary fields.

Research Skills

Artificial intelligence; Machine learning; Soft computing; Programming (C, C++, Java, MATLAB, Python); Statistical analysis (Microsoft Excell, MATLAB, Python); Novel AI and ML models developments in various fields such as hydrological, agriculture, climatical, sediment, floods and water flow modelling in rivers and other multidisciplinary domain.

PEER REVIEWED PUBLICATIPNS

1. Arvind Yadav, Snehamoy Chatterjee, Sk. Md. Equeenuddin, **2021.** Suspended sediment yield modeling in Mahanadi River, India by multi-objective optimization hybridizing artificial intelligence algorithms. International Journal of Sediment Research. https://doi.org/10.1016/j.ijsrc.2020.03.018.

2. Arvind Yadav, Snehamoy Chatterjee, Sk. Md. Equeenuddin, **2018**. Suspended sediment yield estimation using genetic algorithm-based artificial intelligence models: case study of Mahanadi River, India Hydrological science journal, 63 (8), 1162-1182, DOI: 10.1080/02626667.2018.1483581.

3. Arvind Yadav, Devendra Joshi, Vinod Kumar, Hitesh Mohapatra, Celestine Iwendi, and Thippa Reddy Gadekallu, **2022.** Capability and Robustness of Novel Hybridized Artificial Intelligence Technique for Sediment Yield Modeling in Godavari River, India. Water, 14(12), p.1917**.**

4. Arvind Yadav, Premkumar Chithaluru, Aman Singh, Marwan Ali Albahar, Anca Jurcut, Roberto Marcelo Álvarez, Ramesh Kumar Mojjada, and Devendra Joshi. "Suspended Sediment Yield Forecasting with Single and Multi-Objective Optimization Using Hybrid Artificial Intelligence Models." Mathematics 10, no. 22 (**2022**): 4263.

5. Arvind Yadav, Premkumar Chithaluru, Aman Singh, Devendra Joshi, Dalia H. Elkamchouchi, Cristina Mazas Pérez-Oleaga, and Divya Anand. "An Enhanced Feed-Forward Back Propagation Levenberg–Marquardt Algorithm for Suspended Sediment Yield Modeling." *Water* 14, no. 22 (**2022**): 3714.

6. Arvind Yadav, Mohammad Kamrul Hasan, Devendra Joshi, Vinod Kumar, Azana Hafizah Mohd Aman, Hesham Alhumyani, Mohammed S. Alzaidi, and Haripriya Mishra. "Optimized Scenario for Estimating Suspended Sediment Yield Using an Artificial Neural Network Coupled with a Genetic Algorithm." *Water* 14, no. 18 (**2022**): 2815.

7. Arvind Yadav, Sanjay Vishnoi, Pragati Mishra, Devendra Joshi, and Haripriya Mishra. "Design of Hybrid Soft Computing Techniques for Estimation of Suspended Sediment Yield in Krishna River, India." In *Cybernetics, Cognition and Machine Learning Applications*, pp. 113-121. **Springer, Singapore, 2023**.

8. Diwakar, Manoj, Prabhishek Singh, Girija Rani Karetla, Preeti Narooka, **Arvind Yadav**, Rajesh Kumar Maurya, Reena Gupta et al. "Low-Dose COVID-19 CT Image Denoising Using Batch Normalization and Convolution Neural Network." *Electronics* 11, no. 20 (**2022**): 3375.

9. Joshi, Devendra, Premkumar Chithaluru, Aman Singh, **Arvind Yadav**, Dalia H. Elkamchouchi, Jose Breñosa, and Divya Anand. "An Optimized Open Pit Mine Application for Limestone Quarry Production Scheduling to Maximize Net Present Value." *Mathematics* 10, no. 21 **(2022**): 4140.

10. Joshi, Devendra, Premkumar Chithaluru, Aman Singh, **Arvind Yadav**, Dalia H. Elkamchouchi, Cristina Mazas Pérez-Oleaga, and Divya Anand. "A Novel Large-Scale Stochastic Pushback Design Merged with a Minimum Cut Algorithm for Open Pit Mine Production Scheduling." *Systems* 10, no. 5 (**2022**): 159.

11. Joshi, Devendra, Hamed Gholami, Hitesh Mohapatra, Anis Ali, Dalia Streimikiene, Susanta Kumar Satpathy, and **Arvind Yadav**. "The Application of Stochastic Mine Production Scheduling in the Presence of Geological Uncertainty." *Sustainability* 14, no. 16 (**2022**): 9819.

12. Arvind Yadav, Snehamoy Chatterjee, Sk. Md. Equeenuddin, **2017.** Prediction of Suspended Sediment Yield by Artificial Neural Network and Traditional Mathematical Model in Mahanadi River Basin, India, Sustainable water resource management, 4(4), 745-759, DOI:10.1007/s40899-017-0160-1

13. Arvind Yadav and Penke Satyannarayana, **2020.** Multi-objective genetic algorithm optimization of artificial neural network for estimating suspended sediment yield in Mahanadi River basin, India. International Journal of River Basin Management, 1-21

14. Arvind Yadav et al., **2022.** Hybridizing Artificial Intelligence Algorithms for Forecasting of Sediment Load with Multi-objective Optimization, 15 (3), **Water**. **https://doi.org/10.3390/w15030522**.

15. Devendara Joshi, **Arvind Yadav** et al. **2022.** A Novel Approach to Integrating Uncertainty into a Push Re-label Network Flow Algorithm for Pit Optimization, **Mathematics,10 (24), 4803.https://doi.org/10.3390/math10244803.**

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17. Arvind Yadav, **2019.** Estimation and forecasting of suspended sediment yield in Mahanadi River Basin: Application of artificial intelligence algorithms. Doctoral dissertation, National Institute of Technology, Rourkela, India.

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21. **Yadav, A.,** Ali Albahar, M., Chithaluru, P., Singh, A., Alammari, A., Kumar, G.V. and Miro, Y., 2023. Hybridizing Artificial Intelligence Algorithms for Forecasting of Sediment Load with Multi-Objective Optimization. Water, 15(3), p.522.

PATENT PUBLICATIONS

Arvind Yadav et al., 2021, Title of the Invention: A Fully Automated Re-Circulatory Aquaculture System with Cloud Based Multi-Parameter Monitoring, Risk and Controlling System and Method Thereof, Patent No. 202141045604.

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I have expertise in low temperature device physics, modeling of optoelectronics and spin based electronics devices using TCAD tools like SENTAURUS from SYNOPSYS. I can handle high precession device fabrication and characterization tools like PLD, e-BEAM, RF and DC Sputtering, PPMS, VSM-SQUID, Keithley Nanovoltmeter-Nano ammeter and Impedance analyzer. From VLSI point of view, I have used design tools from CADENCE, MENTOR GRAPHICS up to POST LAYOUT simulations in deep submicron technologies (~22 nm). Now, I am working on fabrication and then integration of spin based electronic devices to enhance functionalities of VLSI chips at sufficiently low technologies

Journals

- **D. Deb,** P. Dey, "Magneto-optical tunability of impedance through electronic structure modification in ZnO–rGO/LSMO/ITO spintronic devices", **Journal of Applied Physics**, 134, 223901 (2023)
- **D. Deb,** P. Dey, "Spin Injection through Ferromagnetic/Organic Semiconductor Interfacial Defect States in Hybrid Magnetic Tunnel Junctions", **IEEE Transactions on Magnetics**, 59, 4100106 (2023)
- **D. Deb**, R. J. Choudhary, S. M. Yusuf, J. N. Roy, P. Dey, "Defect assisted magneto-tunable photoresponse in ZnO-rGO/$La_{0.7}Sr_{0.3}MnO_3$/ITO heterojunctions," **Materials Science and Engineering B**, vol. 290, no. 2, p. 116353, (2023)
- **D. Deb,** D. Nath, A. Pal, P. Dey, "Optical and magneto-tunable electrical transport across $La_{0.7}Sr_{0.3}MnO_3$, $Zn_{0.3}Ni_{0.7}Fe_2O_4$/CuPc hybrid interfaces", **Physica Status Solidi A**, 2200693 (2023)
- **D. Deb,** B. K. Mahajan, **"**Modeling of Spin Transport in Hybrid Magnetic Tunnel Junctions for Magnetic Recording Applications**", Crystals,** 12, 1411 (2022)
- **D. Deb,** D. Nath, R. J. Choudhary, J. N. Roy and P. Dey, "Magneto-tunable photoresponse in ZnO-rGO/ $La_{0.7}Sr_{0.3}MnO_3$/ITO heterostructure: An opto-spintronic phenomenon", **Physics Letters A**, 446, 128271 (2022)
- A. Pal, **D. Deb**, J. N. Roy and P. Dey, "Magneto-tunability of Photocurrent in P-type Si(100)/$Zn_{0.3}Ni_{0.7}Fe_2O_4$/ZnO-rGO Composite Heterojunction Device", **Optics and Laser Technology,** 149, 107801 (2022)
- P. Banerjee, D. Nath, K. Mukhopadhyay, **D. Deb** and P. Dey, "Coexistence of photoresponse and light induced memresistive characteristics in zinc oxide (ZnO)-reduced graphene oxide (rGO) bilayer thin film", **Applied Physics A,** 128, 1-11 (2022)
- **D. Deb**, P. Dey, R. J. Choudhary, R. Rawat, A. Banerjee, "Temperature dependent transition of conduction mechanism from carrier injection to multistep tunneling in Fe_3O_4 (111)/Alq_3/Co organic spin valve", **Organic Electronics**, 99, 106324 (2021)
- **D. Deb**, P. Dey, K. K. Sharma, R. J. Choudhary, R. Rawat, A. Banerjee, " Temperature Driven Pinned Layer Magnetization Reversal in Exchanged Biased Fe_3O_4/Alq_3/Co/CoO Hybrid Spin Valve", **IEEE Transactions on Magnetics**, 57, 4800106 (2021)
- **D. Deb**, R. Debnath, S. K. Mandal, A. Lakhani, A. Nath, P. Dey, "Effect of interface on temperature dependent magnetoresistance and room temperature magnetoimpedance of $La_{0.7}Sr_{0.3}MnO_3$ / Polyvinyl Alcohol Nanocomposites", **Physica B: Condensed Matter,** 582, 411962 (2020)
- **D. Deb**, P. Dey, "Modeling of Temperature-Dependent Sign Reversal of Magnetoresistance in 99.95% $La_{0.7}Sr_{0.3}MnO_3$ - 0.05% Paraffin Wax Nanocomposite: The Role of Pinning Center at Intergrain Defect Site", **Physica Status Solidi (b)**, 257, 1900402 (2020)
- **D. Deb**, S. K. Mandal, A. Lakhani, A. Nath, P. Dey, "Interface driven electrical and magneto-transport properties of (100-x)% $La_{0.7}Sr_{0.3}MnO_3$ - x% Paraffin wax ($0 \leq x \leq 1$) hybrid nanocomposites", **The European Physical Journal B**, 92, 165 (2019)
- **D. Deb**, R. Debnath, S. K. Mandal, A. Nath, P. Dey, "Magnetically tunable alternating current electrical properties of(100-x)% $La_{0.7}Sr_{0.3}MnO_3$ - x% paraffin wax($0.05 \leq x \leq 1.0$) hybrid nanocomposites", **Journal of Alloys and Compounds**, 776, 71 (2019)
- P. Dey, **D. Deb**, R. Debnath, S.K. Mandal, A. Lakhani, T.K. Nath, J.N. Roy, A. Nath, "Sign reversal of spin-polarized tunneling magnetoresistance in 99.95%$La_{0.7}Sr_{0.3}MnO_3$-0.05% Paraffin wax nanocomposite: An effect of spin-flip scattering at intergranular Paraffin wax interface", **Journal of Magnetism and Magnetic Materials,** 468, 85 (2018)
- D. Nath, S.K. Mandal, **D. Deb**, J.K. Rakshit, P. Dey, J.N. Roy, "Light tuning DC and AC electrical properties of ZnO-rGO based hybrid nanocomposites film"**, Journal of Applied Physics,** 123, 095115 (2018)
- D. Nath, P. Dey, **D. Deb**, J. K. Rakshit, J. N. Roy, "Fabrication and characterization of organic semiconductor based photodetector for optical communication", **CSI Transactions on ICT, Springer**, 5(2), 149-160 (2017)
- S. Bhowmik, **D. Deb**, S. N. Pradhan, B. K. Bhattacharyya, " Reduction of Noise Using Continously Changing Variable Clock and Clock Gating for IC Chips", **IEEE Transactions on components packaging and Manufacturing Technology**, 6(6), 886-896 (2016)
- S. N. Pradhan, S. Bhowmik, P. Choudhury, D. Nath, A. Nag, **D. Deb** & B. Paul, " Design of new high- speed and low-energy dynamic PLA", **International Journal of Electronics Letters**, 4, 1 (2014).

Projects:

- **D. Deb**, A. Kumar, "Investigation on Optically Tunable Spin Transport across magnetic/nonmagnetic heterojunctions", Internal Funded Project, Koneru Lakshmaiah Education Foundation, India, 2022, Sanctioned Amount: 6.6 Lakhs (Approved), File No. KLEF/IFP/2022-23/ECE/008
- **D. Deb, "**Optimization of Organic Spin Valves for Room Temperature Magnetoresistance Applications", Funded by UGC DAE Consortium for Scientific Research, 2023, Amount: Max. 10 Lakhs (Approved)
- **D. Deb**, "Design, Fabrication and Characterization of Organic Magnetic Tunnel Junctions for Room Temperature Spintronics Applications", SERB SRG Grant, 2023, Amount: 30 Lakhs (Applied), File No. SRG/2023/001648

Dr. Mohan Varkolu

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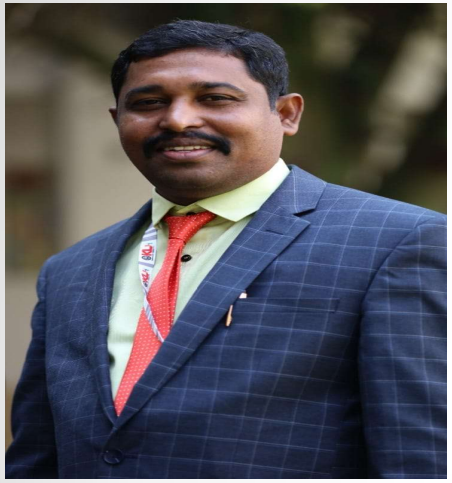

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Expertise:
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REASERCH AREAS

- Bio-Refinery and Biofuels
- Heterogeneous Catalysis
- Organic synthesis and biological activity
- Single Atom Catalysis
- Novel Coupling Reactions
- CO_2 Capture, Conversion, Utilization and Storage

REASERCH CREDITS

- Research Publications: 34
- Journal Articles: 28
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- Books: 1
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Number of Patents published:	5
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Any other remarkable point(s)	Principal Investigator and Project Coordinator for **DST-FIST Level 1** project worth **107 lakhs**.

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Current research interests: Ionospheric studies, Geomagnetic storms, Space physics and Atmospheric studies and Nanomaterials.

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Current research interests	Design and Synthesis of small molecules, Cancer Biology
Biographical information	Dr. Manikanta Murahari is an Associate Professor at KL College of Pharmacy, Koneru Lakshmaiah Education Foundation, India. Holding a Ph.D. in Pharmaceutical Sciences, he specializes in medicinal chemistry, focusing on the design and synthesis of small molecules with anticancer properties. Dr. Murahari is an expert in molecular biology techniques, employing an interdisciplinary approach to unravel cancer biology mechanisms. His contributions include identifying novel anticancer compounds through rigorous screening processes. As an educator and researcher, he actively mentors students, publishes in reputable journals, and participates in conferences, solidifying his reputation as a leading expert in the field.
Publications • SCI: • Scopus	 46 (Q1-17, Q2-21, Q3-07, Q4-01) 46
Patents	01 (Granted)
Book Chapters	04 (Elsevier and Springer Publishers)
Citations • No of citations: • H-index:	 1240 (Google Scholar); 906 (Scopus) 21 (Google Scholar); 18 (Scopus)
Grants/sponsored projects	Nil
Guide ship • PG: • PhD:	 06 (Awarded) 06 (Under Supervision)
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Current research interests:

Condensed Matter Physics and Material Science specializations:

1) Ferroelectric thin films for microwave devices applications.
2) Laser-based method to crystallize ferroelectric thin film at low temperatures for tunable microwave devices application.
3) Piezoelectric thin/thick films for energy storage and energy harvesting devices applications.

Biographical information:

Dr. J. Pundareekam Goud has received a B.Sc. degree and M.Sc. Physics in condensed matter physics from Osmania University, Telangana, Hyderabad, India, in 2006 and 2009, respectively, and the M.Phil. degree in condensed matter physics from Pondicherry University, Pondicherry, in 2011. Dr. J. Pundareekam Goud worked on "Laser-induced Crystallization of Barium Strontium Titanate Thin Films for Microwave Device Applications" for a Ph.D. award (2021) from the University of Hyderabad. He completed a postdoc and worked as an international research professor (2021–2023) at Yeugnam University, South Korea. He has published the outcome of his research work in about 22 papers in internationally reputed journals, which were indexed in SCI, SCOPUS, and Web of Science. He presented it in six papers at academic conferences as proceedings and 2 preprints in the archive. Notably, his research group has filed an Indian patent on a "laser-based method to crystallize ferroelectric thin film at 300℃ temperatures for tunable microwave devices." Application no. 201941007633, dated February 27, 2020. His achievement with his Ph.D. work is a landmark event in electronic materials as he successfully introduced a process to make crystalline ferroelectric thin films compatible with polymer substrates meant for microwave applications using lasers.

Selected Publications:

1. **J. Pundareekam Goud**, Jungho Ryu and K.C. James Raju, Thickness dependence of microwave dielectric tunability in $Ba_{0.5}Sr_{0.5}TiO_3$ thin films deposited by pulsed laser deposition, Ceramics International, 49, 1188–1194 (2023). **(Q1)**
2. Srinivas P, Pamu D, **J. Pundareekam Goud**, Nonlinear optical properties of $Bi_{0.5}Na_{0.5}TiO_3$ thin films grown by PLD, Ceramics International, 48, 29533-29539 (2022). **(Q1)**
3. **J. Pundareekam Goud**, Partho Ghoshal and K.C. James Raju, "Tunable microwave device fabrication on low-temperature crystallized $Ba_{0.5}Sr_{0.5}TiO_3$ thin films by an alternating deposition and laser annealing process", **Advanced Electronic Materials,** 2000905 (**2021**). **(Q1)**
4. A Manohar, **J. Pundareekam Goud** and Ki Hyeon Kim, Unveiling the synergistic effect of mixed metal cations: Self-assembled 3D cube-like CuCoMnO4/CuO composite for bifunctional battery-type supercapacitors and methanol electro-oxidation, Materials Science in Semiconductor Processing, 168,107833 (2023). **(Q1)**
5. S V Prabhakar V, **J. Pundareekam Goud**, Jaesool Shim, Enhanced Sunlight-Powered Photocatalysis and Methanol Oxidation Activities of Co3O4-Embedded Polymeric Carbon Nitride Nanostructures, Nanomaterials 13, 2508 (2023). **(Q1)**
6. Hyunseok Song, **J. Pundareekam Goud,** Jungho Ryu**,** Review of the thermally stimulated depolarization current (TSDC) technique for characterizing dielectric materials, Journal of the Korean Ceramic Society, (2023). **(Q2)**
7. **J. Pundareekam Goud**, K. C. James Raju "Influence of laser fluence on structural, optical and microwave dielectric properties of pulsed laser deposited $Ba_{0.6}Sr_{0.4}TiO_3$ thin films". Journal of Materials Science: Materials in Electronics, 29, 15973–15982 (2018). **(Q2)**
8. **J. Pundareekam Goud**, and K.C. James Raju, "Structural, dielectric and impedance study of Bi and Li co-substituted $Ba_{0.5}Sr_{0.5}TiO_3$ ceramics for tunable microwave devices applications", Journal of Materials Science: Materials in Electronics, 29, 3611–3620 (2018). **(Q2)**
9. **J. Pundareekam Goud,** and K.C. James Raju, "Effect of crystallinity on microwave tunability of Pulsed laser deposited $Ba_{0.5}Sr_{0.5}TiO_3$ Thin Films" Thin Solid Films, 626, 126–130 (2017). **(Q2)**
10. Surajit Kumar Nath, **J Pundareekam Goud**, and K.C. James Raju, A Highly Tunable Barium Strontium Titanate Thin Film MIM Varactor with Floating Metal, IEEE Microwave and Wireless Components Letters, 31(12),1283-1286 (2021). **(Q1)**
11. K Sandeep, **J. Pundareekam Goud**, and K. C. James Raju, "Effects of a Coated Material Layer on High Overtone Bulk Acoustic Resonator and its Possible Applications", IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 68(4), 1253-1260 (2021). **(Q1)**

Patent:

1. **J. Pundareekam Goud,** S Ramakanth, Kongbrailatpam Sandeep, Ajeet Kumar and K.C. James Raju "Laser-based method to crystallize ferroelectric thin film at 300℃ temperatures for tunable microwave devices", Filed for an Indian patent. Application no. **201941007633,** dated **February 27, 2020**.

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Scopus	https://www.scopus.com/authid/detail.uri?authorId=56641672200
WOS	https://www.webofscience.com/wos/author/record/ABF-6269-2020
Orcid	https://orcid.org/0000-0002-3069-5742
Google Scholar	https://scholar.google.com/citations?user=gzvDbzwAAAAJ&hl=en
Vidwan Id	https://vidwan.inflibnet.ac.in/profile/452929
Current research interests	✓ Drug design and synthesis of small molecules for biological interest ✓ Phytochemical investigation and screening ✓ Analytical method development, validation, impurity profiling
Biographical information	Address: Flat No: 301, Sreenidhi Residency, Near NRI Women's College, Reddypalem, Guntur, AP-522509. Date of Birth: 02/07/1983 Nationality: Indian Religion : Hindu Marital status: Married.
Publications • Total- • SCI/SCIE: • Scopus:	 51 8 24
Patents • Published: • Granted:	 03 Nil
Books	01
Book Chapters	Nil
Citations • No of citations: • H-index	 120 05
Grants/sponsored projects	Nil
Guide ship • PG: • PhD:	 09 02
Others • Membership: • Editorial member/Reviewer: • Awards:	 APTI, IPGA, PCI Reviewer for Elsevier/springer/Bentham science journals. GATE Fellowships, UGC-BSR fellowships, Associate Fellow by AP Academy of Sciences etc.

Dr. Sarada Prasanna Mallick - Assistant Professor Department of Biotechnology

He received his doctorate from the Indian Institute of Technology (Banaras Hindu University), as well as his M.Tech and B.Tech degrees from the National Institute of Technology in Rourkela. Over the last few years, he has acquired an eager and rigorous approach to everything he does. He has published over 30 articles in reputable publications and authored 10 book chapters. He is looking forward to taking on an academic and research role and expanding and distributing his knowledge in the fields of 3D-tissue/organoid reconstruction, stem cells and tissue engineering, biomaterials, pharmaceutical biotechnology, and bioreactor design.

Dr.Sarada Prasanna Mallick is a distinguished researcher and academician hailing from Odisha, India. His extensive experience and excellent academic credentials have allowed him to make substantial contributions to the area of tissue engineering, particularly to the regeneration of different types of tissues through the use of different polymeric constructs.

By developing a bilayer framework that induces mesenchymal stem cells to undergo sequential chondrogenesis and osteogenesis, he is helping to resolve a significant challenge related to the regeneration of cartilage and the development of osteochondral tissues. The biocompatibility and differentiation potential of these cells were assessed by cultivating them on each layer. His doctoral dissertation concentrated on improving the bioactivity and chondrogenic potential of polymeric scaffolds for use in chondrocyte-based cartilage tissue regeneration and bilayer scaffolds containing bioactive glass for use in mesenchymal stem cell-based osteochondral tissue regeneration. While attending Masters in NIT Rourkela, he cultivated an interest in science that would later focus on tissue engineering. He acquired an appreciation for the physical processes involved in nanomaterial production and honed his analytical thinking abilities by taking on the task of solving various physical challenges involving materials. The role of nano-architecture in nature and how to emulate it to create nanomaterials with improved qualities to meet the needs of different healthcare businesses is something he is very interested in learning about. He studied numerous drug delivery applications while working on his Master of Technology dissertation, including hydrogels, emulgels, organogels, and bigels.

He plans to devote the next few years to researching three primary topics. First things first: he intends to be completely up-to-date on all the newest techniques, equipment, and materials. Seeking out new applications of current technology, publishing in prestigious journals, and capitalizing on educational synergies are all parts of his strategy to get patents. Based on his research and experimental designs, he frequently gives talks and poster presentations both locally and internationally. Undergraduates and graduate students in the following disciplines might benefit from his research expertise, and he is keen to submit proposals to funding organizations for research grants.

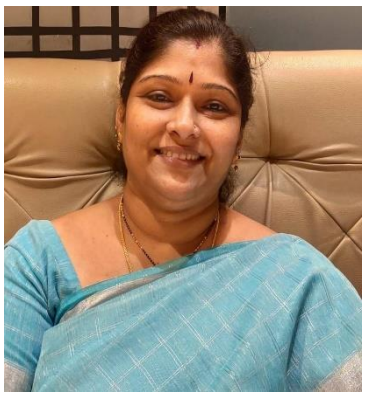
His collaborative approach to research and his ability to bridge the gap between academia and industry make him a valuable asset in the scientific community. Dr. Mallick's work continues to have a positive impact on Biomaterials, Pharmaceutical Biotechnology, and Tissue Engineering and his entrepreneurial spirit ensures that his research findings are translated into practical solutions for a sustainable future.

Dr. Matte Kasi Viswanadh
Associate Professor,
KL College of Pharmacy,
KLEF Deemed to be University.
Mail ID: mkasiviswanadh@kluniversity.in; mattekv.rs.phe16@itbhu.ac.in
Mobile: 8309885828 9949399486

I completed my M.Pharm with Pharmaceutics speciallization in 2011 at Annamacharya College of Pharmacy, affiliated to JNTUA Anantapur. Later, I worked as Assistant Professor at Sri Vasavi Institute of Pharmaceutical sciences, Tdepalligudem for 4 years and then I joined as a Full-time research scholar and Teaching assistant at Department of Pharmaceutical Engineering & Technology, Indian Institute of Technology BHU, Varanasi in 2016 and submitted my thesis in 2021 and got awarded with Ph.D. in 2022. After submitting thesis, I joined as Assistant Professor, level 10, at GITAM University, Hyderabad and currently I am working as Associate Professor at KL College of Pharmacy.

In the span of 11 years of teaching and research experience, I published 31 research and review articles and two book chapters in peer reviewed high impact international journals. I have overall 610 citations with a h-index of 13 and i-10 index of 18.
(https://scholar.google.com/citations?user=I9qCbIkAAAAJ&hl=en)
https://www.linkedin.com/in/kasiviswanadh-matte-b8886415b?lipi=urn%3Ali%3Apage%3Ad_flagship3_profile_view_base_contact_details%3B87n11xI7QZy9V5Kww1W0oQ%3D%3D
ORCID ID: https://orcid.org/0000-0003-2726-130X
https://www.webofscience.com/wos/author/record/AAW-1002-2021
https://www.scopus.com/authid/detail.uri?authorId=57193486208

My doctoral research work focused on the design, development, characterization and evaluation of biocompatible **EGFR targeted chitosan nanomedicine** and **redox sensitive nanomedicine for the treatment of non-small cell lung cancer.** For this, I developed a GSH redox sensitive TPGS-SH with high affinity towards GSH-rich cancer microenvironment**.** I also worked on development of targeted nanomedicine for Breast cancer, Glioma and TB. I have gained comprehensive knowledge about various methods of optimization and preparation of nanoparticles such as liposomes, micelles, polymeric nanoparticles, up-conversion nanoparticles and biodots, techniques involved in the characterization of nanoparticles, loading of fluorescent and contrast agents in prepared nanoparticles, incorporation of nanoparticles into different dosage forms, synthesis of biocompatible polymers and their use in nanoparticles, methods for performing in-vitro dissolution, in-vivo animal studies, RP-HPLC, NMR, FTIR, ATR and UV-Vis analysis of various samples from different dosage formulations, mammalian cell culture techniques, hands-on training on PCR and Western blotting, flowcytometry, confocal microscopy and other molecular biology techniques, in-vivo experiments on small animals such as mice and rats, stereotaxis, extraction, isolation of natural products followed by structure elucidation of the compounds.



Dr G Sunita Sundari

Associate Professor
Research Group Head for Centre for Nano Technology
Department of Physics K L E F
Email: gunturisunita@kluniveristy.in; physics.ss@gmail.com
Mobile: + (91) 9396762244
Related Links:
https://www.scopus.com/authid/detail.uri?authorId=55749504900
https://scholar.google.co.il/citations?user=S2_2s-gAAAAJ&hl=en;
https://orcid.org/my-orcid?orcid=0000-0002-2503-2952;
https://www.webofscience.com/wos/author/record/J-2578-2015;

Current Research Interests: Currently, Dr G Sunita Sundari's research is focused on these areas.

1. Design, Synthesis and Development of Novel Polymers for Energy materials
2. Development of Polymer Electrolytes with nanocomposites for their application in Batteries, Sensors, Fuel Cells, Supercapacitors and EDLC Applications
3. Gel Polymer Electrolyte doped with nanofillers for Rechargeable Battery and EDLC applications.

Biographical Information:

Dr G Sunita Sundari obtained her B.Sc.-Applied Sciences degree in Mathematics, Physics and Chemistry from SRKR Engineering College Bhimavaram, A.P, India in 1997and M.Sc. (Physics) from **University of Hyderabad**, Hyderabad, Telangana, AP, India in 2001. She completed her MPhil (in 2006) and PhD(in 2012) in the field of Polymer Electrolytes and application towards batteries from **JNTU Hyderabad**, Telangana AP. She has published more than 35 papers in International and national journals. She is a reviewer for several international journals including Elsevier, and Springer. She completed a Sponsored funded project by the **UGC-DAE** Consortium for Scientific Research, Kalpakkam. She published 3 design patents and one book chapter. Under her guidance, 3 students completed their PhD and presently guiding 3 Ph.D. scholars.

Selected Publications:

1. Ionic conductivity and battery characteristic studies of a new PAN-based Na+ ion conducting gel polymer electrolyte system. ***G. Sunita Sundari*** *et al.,* ***Indian Journal of Physics*** 2016, 90, 289-296.
2. Structural and Dielectric Properties of PVP-Based Composite Polymer Electrolyte Thin Films. ***G. Sunita Sundari*** *et al.,* ***Journal of Inorganic and Organometallic Polymers and Materials*** 2017, 26, 1107-1452.
3. Structural and Dielectric Properties of PVP-Based Composite Polymer Electrolyte Thin Films. ***G. Sunita Sundari*** *et al.,* ***Journal of Inorganic and Organometallic Polymers and Materials*** 2017, 26, 1107-1452.
4. Preparation and dielectric properties of PVP-based polymer electrolyte films for solid-state battery application. ***G. Sunita Sundari*** *et al.,* ***Polymer Bulletin,*** 2018, *75*, 925-945.
5. Novel solid polymer electrolyte based on PMMA:CH_3COOLi- Effect of salt concentration on optical and conductivity studies. ***G. Sunita Sundari*** *et al.,* ***Polymer Bulletin,****2019 1-19 5463-5481****.*
6. Development of bio-degradable based polymer electrolytes for EDLC application ***G. Sunita Sundari*** *et al.,* ***Optik*** *2021 1-12.*
7. Evidence of Superparamagnetic in nano phased copper doped nickel zinc ferrites synthesized by Hydrothermal Method ***G. Sunita Sundari*** *et al.,* ***Optik*** 2021 1-20.
8. Studies on nanocrystalline copper doped Nickel Zinc ferrites for optoelectronic applications ***G. Sunita Sundari*** *et al.,* ***Journal of Luminescence,*** *2022 1-9****.***
9. Ion conduction property and electrochemical characteristics of Ag-ion gel polymer electrolyte ***G. Sunita Sundari*** *et al.,* ***Synthetic Metals***, 2023, 298. 1-13.
10. A novel nickel-doped photoactive nanocomposite material for the application of wastewater treatment ***G. Sunita Sundari et al****.,* ***Inorganic Chemistry Communications,***2024 160.

Name:	Dr. Kanike Raghavendra Kumar
Affiliation:	Department of Physics, Koneru Lakshmaiah Education and Foundation, Vaddeswaram 522302, Guntur, A.P., India.
Research and Academic Experience:	16 Years of Research Experience 12 Years of Teaching Experience
Research Area:	Atmospheric Science
Number of Ph.D's Awarded:	2
Number of Published papers:	104
Number of Patents published:	2
Number of Book chapters published:	3
Special Award (If any):	• Outstanding Scientist Award (National) from INSO Awards of V. D. Good Professional Association, Tamil Nadu, India for the year 2021-22. • Best Teacher Award (Regional) from K. L. (Deemed to be) University, Guntur, India for the year 2020-21. • Research Excellence Award (National) from Novel Research Academy, Chennai, India for the year 2021. • Scientist of the Year Award (National) from National Environmental Science Academy (NESA), New Delhi, India for the year 2019. • Junior Scientist of the year Award (National level) from National Environmental Science Academy (NESA), New Delhi, India for the year 2011. • Young Scientist Award (State level) from Dr. K. V. Scientific Society, Hyderabad, India for the year 2009. • Life member of Indian Laser Association (ILA), Indore, Madhya Pradesh, India (2022) (No. LM-1492) • Life member of Asia Society of Researchers (ASR), Hong Kong (2022) (No. R219093444). • Life member of Indian Aerosol Science and Technology Association (IASTA), Mumbai, India (2022) (No. IASTA-LM-664). • Life member of Indian Society of Remote Sensing (ISRS), Dehradun, India (2020) (No. L-5548). • Life member of Indian Physics Association (IPA), Mumbai, India (2019) (GEN/LM/13395). • Life member of National Environmental Science Academy (NESA), New Delhi, India (2009) (L/M No. 1551).
Any other remarkable point(s)	Principal Investigator for China Meteorological Administration funded Young Research Talent Award worth INR 8 lakhs. Principal Investigator for DST-SERB sponsored SRG project worth INR 27.42 lakhs (2020-2022). CO-PI for APSDMA, Andhra Pradesh sponsored project worth INR 15 lakhs (2024-2026).

Mail ID : rkkanike@kluniversity.in

Google: http://scholar.google.ca/citations?user=fsZkz08AAAAJ

Scopus: https://www.scopus.com/authid/detail.uri?authorId=55645072500

Res ID: http://www.researcherid.com/rid/G-6384-2012

ORCid: http://orcid.org/0000-0002-9376-3781

Publons: https://publons.com/researcher/2714529/raghavendra-kumar-k-kanike/

Mobile No. 9391392189

Research Area: ATMOSPHERIC SCIENCE

Research Interest: Satellite Remote Sensing; Aerosol pollution and radiative forcing Modeling; Air Quality and Climate change; Meteorology; Aerosol-Cloud Interactions.

Dr. K. Raghavendra Kumar is currently working as an Associate Professor since 2019 till date in the Department of Physics, Koneru Lakshmaiah Education Foundation (Deemed to be University), Guntur, Andhra Pradesh, India. He completed his Bachelor's, Master's and Doctoral degrees, all from Sri Krishnadevaraya University, Anantapur, Andhra Pradesh in the years 2003, 2005 and 2010, respectively. Prior, he worked as a High-Level Research Faculty (Foreign Expert) at the School of Atmospheric Physics, Nanjing University of Information Science and Technology, Nanjing, China (2013-2019) and a Post-doctoral Research Fellow at University of Kwazulu Natal, Durban, South Africa (2012-2013). To his credit, Dr Kumar is the author/co-author for 104 research papers published in different SCI journals, with more than 3000 citations and h-index of 34. He has presented his research results at several national and international conferences/seminars and acted as a potential reviewer for 20 SCI journals. Dr Kumar has supervised 2 Ph.D (Kenyan Male and Pakistani Female) and 8 Master Degree students (Chinese) and currently supervising 2 students (Indian) for Ph.D. He is a recipient of many awards from different organisations for his excellence in research and is a life member of professional bodies. He has completed three sponsored research projects as PI funded by the China Meteorological Administration (CMA), China, and DST-SERB. He has been actively involved in national and international research collaborations notably with India, China, Pakistan, Singapore, South Africa, Kenya, and Nigeria.

Dr. Mahamuda Shaik

Associate Professor & RPAC-Physics
Department of Physics
K L E F
Email: mahamuda.ss@kluniveristy.in, mahamuda.ss@gmail.com
Mobile: + (91) 9908452265

Related Links:
https://scholar.google.co.in/citations?user=2DnsmnEAAAAJ&hl=en
https://www.scopus.com/authid/detail.uri?authorId=55632276400
https://orcid.org/0000-0001-9579-4795
https://publons.com/researcher/1851652/sk-mahamuda/

Current Research Interests:

Glasses and glass-ceramics for electronic, optical and biomedical applications, Photonic crystals, Rare earth doped Nano phosphors for LED applications.

Biographical Information:

Dr. Mahamuda Shaik is working as an Associate professor in the Department of Physics, Koneru Lakshmaiah Education Foundation (KLEF), Andhra Pradesh, India since 2007. She received her master's Degree, M.Phil in physics from Acharya Nagarjuna University and Doctoral degree from K L E F, Guntur, Andhra Pradesh, India, respectively. She has total 16 years of teaching and research experience in her career. She is BOS member of many Engineering institutions in Andhra Pradesh. She has received many awards and recognitions during her academic, teaching and research career like Best Woman Scientist Award and Best young faculty award (Novel Research Academy-2021 & 2022), Best Teacher Award for (KLEF-2015-16, 2016-17, 2019-20 and 2020-21), Department IQAC in-charge for Quality Contributions (KLEF-2019), Early Career Research Award (DST-SERB-2016-2019), Young Women Achiever's Award (Venus International Foundation-2016),Woman Scientist (WOS-A) (DST-2012). Under her supervision, one research scholar's 2 Ph.D's are awarded, one Ph.D is submitted and 3 more research scholars are perusing their Ph.D. She has successfully completed two sponsored research projects sanctioned by DST, Government of India under women scientist scheme (2012 – 2015/ 15 Lakhs) and Early career research award (DST-SERB/2016-2019/52 Lakhs) and she has one ongoing sponsored project sanctioned by DST, Government of India under Core Research Grant (DST-SERB/CRG/2023-2026/30 Lakhs). She has also published 4 patents. In her research work, she is preparing optical glasses and phosphors that can be used for Laser, optical fiber and solid state lightening applications. Dr Mahamuda Sahik has published 72 research papers in reputed SCI journals. She is also acting as a Project Implementation group member for DST-PURSE (7 Crores) DST-FIST level-1 project (1.07 crores) sanctioned by DST, Government of India. She has presented the results of her research work in more than 85 international and national conferences. Her research citations are more than 2513 and h-index: 30, i10-index: 47. She also acts as reviewer for many international journals of high repute.

Dr. R S ERNEST RAVINDRAN

Permanent Address : 28/20, Raja Nagar, Kallakurichi, Tamil Nadu, India - 606202.

Date of Birth : 25 April 1987 **Marriage Status**: Married

Research Data:

Google Scholar Link	: : https://scholar.google.com/citations?user=UIm8lsMAAAAJ&hl=en
Orcid ID	: http://orcid.org/0000-0003-3631-3140
Scopus Link	: https://www.scopus.com/authid/detail.uri?authorId=55926930200
Web of Science	: https://publons.com/researcher/1837319/dr-r-s-ernest-ravindran/ (U-6017-2018)
Research Gate	: https://www.researchgate.net/profile/Ernest-Ravindran-Ramaswami-Sachidanandan?ev=hdr_xprf

Research Activity:

My research is focused on the nanocomposites (ceramic-polymer) material for high energy storage application and less power loss, green synthesis of metal nanoparticles (Gold, Silver, Zinc and Iron, etc) in bio-medical and food packing applications. Low Power VLSI for efficient memory application using various simulation tools and Image Processing for medical applications implementing various algorithms.

Current Research Interest: Medical image processing using various algorithm and Low power memory cells using advance technology.

Projects Handled: Design and Implementation of reconfigurable energy efficiency protocol based on IoT application Domain, Co-PI in DST funded project (2018-2021), KLEF.

Publication:

- RS Ernest Ravindran, Kirubanandan Shanmugam, Subha Veeramani, Rajangam Ilangovan, Daoud Ali, Bader O Almutairi, Hemalatha Palanivel, Mukesh Goel, (2022) Effect of phytofabricated silver oxide nanoparticles on wound pathogens, Journal of Nanomaterials.
- Lakshmana Kumar Muna, Ernest Ravindran Ramaswami Sachidanandan, Subha Veeramai, (2022) Greener Synthesized Copper Nanoparticles incorporated in Polyethylene Glycol/Polyvinyl Alcohol Nanocomposite for Food Package Applications Journal of Nanostructures 12 (2), pp. 224-234
- M Muzammil Parvez, M Lakshmana Kumar, RS Ernest Ravindran, Ramaraju Anirudh, Lokam Nithin Bharadwaj, Chella Santhosh, Thondam Sri Ravi Teja, RGN Vardhan Reddy (2022) Defect Detection Using Fan Chirp Transform using Quadratic Frequency Modulated Thermal Wave Imaging, IEEE, 2nd International Conference on Artificial Intelligence and Signal Processing (AISP).
- K Mariya Priyadarshini, RS Ernest Ravindran, M Sujatha, KTPS Kumar, (2022) High-speed pre-accumulator and post-multiplier for convolution neural networks with low power consumption, International Journal of Internet Protocol Technology, 15(3-4), pp. 139-147
- Yarragudi Madhu Sudhana Reddy and Ramaswami Sachidanandan Ernest Ravindran (2022) Retinal Image Lesions Assisted Diabetic Retinopathy Screening System Through Machine Learning, International Journal of Intelligent Engineering and Systems, 15(2), pp. 175-190
- Ravindran, R.S.E., Yathish Aradhya, B.C., Kumar, A.S., ...Sureshkumar, S., Kajamohideen, S.A., A Fusion Classification Prototypical for Eye State Recognition in Stroke Patients Using Electroencephalogram (EEG) Data, International Journal of Intelligent Systems and Applications in Engineering, 2023, 11(8), pp. 499–507
- Yadav, A.K., Kashyap, S., Pund, S.S., ...Ernest Ravindran, R.S., V. Sriramakrishnan, G., Compared to The Threshold Dependent Segmentation Technique, Normal Type Lung Cancer Identification in CT Images Utilizing Structural Flood Segmentation Process to Enhance Efficiency, 2023 3rd International Conference on Advance Computing and Innovative Technologies in Engineering, ICACITE 2023, 2023, pp. 833–837
- Kusumanchi, T.P.S.K., Ernest Ravindran, R.S., Jaya Sankar Krishna, K., ...Divyasree, P., , Design of Low-Drop-Out Voltage Regulator using CMOS Technology for Microprocessor Applications, Journal of Physics: Conference Series, 2023, 2471(1), 012017
- Sachidanandan, E.R.R., Singh, N.P., Gunda, S., Design and Simulation of a Low-Power and High-Speed Fast Fourier Transform for Medical Image Compression, Engineering Proceedings, 2023, 34(1), 18Methodology. *Engineering Proceedings*, 34 (1), 12, March 2023.
- Muzammil, P.M., Allanki, S., Sudhagar, G., Ernest Ravindran, R.S., Muqeet, M.A., Advanced Driver Fatigue Detection by Integration of OpenCV DNN Module and Deep Learning, Engineering Proceedings, 2023, 34(1), 15

Dr. Chella Santhosh

Permanent Address : 46/108, Opp. Govt. Jr. College, Main road, Rayachoty, AP - 516269, India

Communication Address: 326, Block5, Srinivasam Apartments, Kunchanapalli, KLU Road Guntur District – 522 302, Andhra Pradesh.

Date of Birth : 10 August 1987 **Marriage Status**: Married

Google Scholar Link : https://scholar.google.com/citations?user=qbvB4vwAAAAJ&hl=en

Orcid ID : https://orcid.org/0000-0002-5301-2000

Scopus Link : https://www.scopus.com/authid/detail.uri?authorId=55700398500

Web of Science : https://www.webofscience.com/wos/author/record/L-7309-2017

Research Gate : https://www.researchgate.net/profile/Santhosh-C

Research Activity:

Synthesis of Carbon-based materials and their composites for Energy and Environmental Remediation applications.

Area of Research

- **Carbon nanotubes & Graphene Based materials**
- **CVD Techniques for the growth of Carbon Nanotubes**
- **Synthesis of carbon-based materials and magnetic nanocomposites**
- **Nanomaterials as sorbents for heavy metal ions removal towards environmental remediation**
- **Mesoporous, Nanoporous and Magnetic materials**
- **Hybrid Materials for Photocatalysis, Supercapacitors, Batteries and Electrochemical applications**

Honors and Awards received:

S.No.	*Description*	*Year*
i.	Top 2% Scientists of the world announced by Elsevier in association with Stanford University	2021,22
ii.	Best Researcher Award announced by VD Good Technology factory, India	2021

Best 5-Journal Publications:

S.No.	*Description*	*SCOPUS/JIF*
i.	**Santhosh Chella**, Malathi A. Daneshvar, Ehsana, Kollu Pratap, Bhatnagar Amit, "Photocatalytic degradation of toxic aquatic pollutants by novel magnetic 3D-TiO2@HPGA nanocomposites", Scientific Reports, Volume 8, Issue 11, 2018, Article number 15531.	SCI/SCOPUS 4.2
ii.	Daneshvar, E., **Santhosh, C**., Antikainen, E., Bhatnagar, A."Microalgal growth and nitrate removal efficiency in different cultivation conditions: Effect of macro and micronutrients and salinity", Journal of Environmental Chemical Engineering, Volume 6, Issue 2, Pages 1848 – 1854, 2018.	SCI/SCOPUS 7.968
iii.	Shirani, Zahra, **Santhosh, Chella**, Iqbal, Jibran, Bhatnagar, Amit, "Waste Moringa oleifera seed pods as green sorbent for efficient removal of toxic aquatic pollutants". Journal of Environmental Management, Volume 227, Pages 95 – 106, 2019.	SCI/SCOPUS 8.910
iv.	**Santhosh, Chella**, Daneshvar Ehsan, Tripathi, Kumud Malika, Baltrėnas Pranas, Kim TaeYoung, Baltrėnaitė, Edita, Bhatnagar, Amit, "Synthesis and characterization of magnetic biochar adsorbents for the removal of Cr(VI) and Acid orange 7 dye from aqueous solution", Environmental Science and Pollution Research, 27(26) (2020) 32874 – 32887.	SCI/SCOPUS 5.19
v.	Bitra, S.K., Sridhar, M., **Santhosh, C**., Farmani, A. Terahertz analysis of a highly sensitive MIM-SRR-TiO2 nanostructure for bio-sensor applications with the FDTD method, Journal of the Optical Society of America B: Optical Physics, 2022, 39(1), pp. 223–229.	SCI/SCOPUS 2.508

Dr. P.PARDHA SARADHI
MIACSIT, MIAENG, MUACEE, MIIRJC

Associate Dean R&D (Publications)
Dept of ECE
K L Deemed to be University (NAAC A++ & NIRF-27)
Email: pspokkunuri@kluniversity.in
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Academics 23 Years (13 Years outside& 10 years at KLEF)	**1)** **Subjects Handled**: Digital System Design, Microprocessors and Controllers, Electonics Instruments and Biomedical Applications, Electronic Instruments and Automation, Biomedical electronics and IOT health care, System for smart cities and smart villages, Cyber Physical Systems, Computer Organization and Architecture **2)** **Experience**: 23 Years **3)** **Design Skills:** MATLAB, Multisim, Pspice, Active HDL, Xilinx, Ansys HFSS, Logisim,COMSOL Multi physics, LAB View, DAQ, MyRIO, CST, Savant. **4)** **Awareness regarding Teaching Methodologies**: ABET USA Standards (PEO's PO's, Application Oriented Teaching etc.,), Bloom Taxonomy Based Question Building Course, Preparation of Course Handouts, Lesson Plans, Lab Manuals, Result Analysis, Board of Studies Meeting Procedures, Academic file management at department and Central Level. **5)** **Academic Achievements**:, Distinguished Researcher Award from Raja Rammohan Roy research organization Newdelhi 2021. **6)** **Academic Load**: Course Coordinator from Last five Years, P.G Coordinator ECE, Assoc.Dean (R&D publications). **7)** **Book Publications**: 5 International Indexed Books/Chapters Publications
Research 18 Years (8 years outside 10 years at KLEF)	1) **No. of Sponsored Projects** Completed: 2 **2)** **No. of Sponsored Projects ongoing: 1** 3) **No. of Projects Applied:** 1 4) **No. of Consultancy Projects: 10** **5)** **Total Number of Research Publications**: **130** **6)** **Scopus/SCI Indexed Journals Published**: **122** 7) **H-Index**: 13, **I10-Index**: 28, **Citations**: 659 8) **Patents Published**: 15 9) **Professional Memberships**: 5 10) **Reviewer for Journals**: Ain Shams Engineering(Elsevier), Microelectronic Engineering(Elsevier), PIER, Applied Computational Electromagnetics Journal, Optik, Phase transitions, Liquid Crystals, ZNatureforsch, Heliyon, Physica-B, and 10 more 11) **Editorial Board Member**: 2 International Journals 12) **Workshops and refresher courses attended**: 25 13) **Workshops conducted**: 3 14) **FDP's Conducted**: 2 15) **Conferences attended**: 25, **Session Chair & Co-Chair**: 5, **Keynote**: 2 16) **Conferences conducted as coordinator**: 2 17) **Technical Program Committee member for Conferences**: 2 18) **Guest Lectures delivered**: 10 19) **M.Tech/B.Tech Projects Guided**: 40 20) **Ph. D Scholars**: 03(1 Full Time +2 Part time) 21) **Ph**. D Awarded: 08 22) **Research topics of Interest**: RF-Microwave and Antennas, Liquid Crystals Applications, Image Processing

Indian Book, Asia Book, and World Record Holder—Youngest Professor with Highest Number of Publications, AICTE Best Teacher Awardee for 2022, Young Scientist & ECR Awardee. Reviewer for SERB Projects (Govt.of India), Distinguished Scientist Award Holder, Distinguished Researcher Award Holder, Life Time Achievement Award from SSRN, Listed in Top 2% Researchers of the World by Stanford University & Elsevier

Dr. B.T.P.Madhav M.Sc (Elec)., MBA (HR)., M.Tech (C&R)., Ph.D (Engg).
MIEEE, MISTE, MIACSIT, MIRACST, MUACEE, MIAEME, MIAENG, MIAES, MIIRJC
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Academics 20 Years (5 Years outside & 14 years at KLEF)	**1)** **Subjects Handled**: Digital System Design, Microprocessors and Controllers, EMI/EMC, Linear Integrated Circuits and Power Supplies, Satellite Communication, Verilog HDL, Optical Communications, AWP, Computer Organization and Architecture **2)** **Experience**: 19 Years **3)** **Design Skills:** PCB Designing, ASM, MATLAB, Multisim, TINA, Pspice, Active HDL, Xilinx, Modelsim, Ansys HFSS, Concerto, AWR Microwave office, VSS, Logisim, FEKO, COMSOL Multi physics, IE3D, LAB View, EM PRO, DAQ, MyRIO, CST, Savant, EMIT **4)** **Awareness regarding Teaching Methodologies**: ABET USA Standards (PEO's PO's, Application Oriented Teaching etc.,), Bloom Taxonomy Based Question Building Course, Preparation of Course Handouts, Lesson Plans, Lab Manuals, Result Analysis, Board of Studies Meeting Procedures, Academic file management at department and Central Level. **5)** **Academic Achievements**: Best Teacher award taken for 2009-10, 2010-2011, 2011-2012, 2013-14, 2014-15, 2016-17, 2017-18, 2019-20 from KLU, AICTE NTTA Award 2022, Best Teacher from IQAC on World Quality Day in 2017, Uttam Acharya Puraskar from Indian Servers in 2019, Distinguished Researcher Award from IQAC in 2019. **6)** **Academic Load**: Course Coordinator from Last ten Years, ECE NAAC Criteria-3 In-Charge, FIST Coordinator, Former CSRG Head & Assoc.Dean (Academic Research). **7)** **Book Publications**: 22 International Indexed Books/Chapters Publications
Research 15 Years (KLEF)	1) **No. of Sponsored Projects** Completed: 4 (worth of 123 Lakhs) **2)** **No. of Sponsored Projects ongoing: 2 (worth of 8.1 Crores)** 3) **No. of Projects Applied:** 1 (32 Lakhs) 4) **No. of Consultancy Projects: 186** (worth of 16 Lakhs) 5) **Total Number of Research Publications**: **668** 6) **Scopus/SCI Indexed Journals Published**: **464** 7) **H-Index**: 35, **I10-Index**: 129, **Citations**: 5045 8) **Patents Published**: 34 9) **Professional Memberships**: 8 10) **Reviewer for Journals**: a) IET Microwaves and Antennas & Propagation, b) IJE (Taylor and Francis, c) IJMWT (Cambridge University), d) JESTEC (Taylor's University), e) WPS (Springer), f) JESTCH(Elsevier), g) IJECE-AUE(Elsevier) h) IEEE Access, i) RFCAD, j) Results in Physics, k) Ain Shams Engineering(Elsevier), l) Microelectronic Engineering(Elsevier), m) PIER, n) Applied Computational Electromagnetics Journal, o) International Journal of Antennas and Propagation, p) MOTL, q) IEEE AWPL, r) Optik s) IEEE TAP, t) IEEE APM and 32 more 11) **Editorial Board Member**: 46 International Journals 12) **Workshops and refresher courses attended**: 32 13) **Workshops conducted**: 18 14) **FDP's Conducted**: 13 15) **Conferences attended**: 36, **Session Chair & Co-Chair**: 4, **Keynote**: 5 16) **Conferences conducted as coordinator**: 6 17) **Technical Program Committee member for Conferences**: 4 18) **Guest Lectures delivered**: 56, **E-Content/Topics in Social Media**: 62 19) **M.Tech/B.Tech Projects Guided**: 56 20) **Ph. D Scholars**: 05(1 Full Time +4 Part time) 21) **Ph**. D Awarded: 15, Submitted: 01 22) **Research topics of Interest**: RF-Microwave and Antennas, Liquid Crystals Applications, Image Processing

Dr. Sandeep Kumar is presently working as a Professor in the Department of Computer Science and Engineering, K L Deemed to Be University, Vijayawada, Andhra Pradesh, India (NAAC Accreditation: A++). He completed his Post Doc from Pentagram Pvt. Ltd. in August 2021. He has good Academics & Research experience in various areas of Electronics and Communication. He completed his Post Doc from Pentagram Pvt. Ltd. in August 2021. His area of research includes Embedded System, Image processing, Biometrics and Machine Learning. He has granted 25 Patents (17-National & 8-International) and 7 patents filed successfully (6-National & 1-International patent). He has been received 13 times invitations to be a Guest in Scopus Indexed IEEE/Springer Conferences. He has been invited 12 times to be an expert in various Colleges/universities in India. He has published 150 research papers in various International/National Journals (including IEEE, Springer, etc.) and Proceedings of the reputed International/ National Conferences (including Springer and IEEE). He has been awarded "Best Paper Presentation" in Nepal & India, respectively, 2017 & 2018. He was awarded for "Best Performer Award" in Hyderabad, India, in 2018. He has also been awarded the "Young Researcher Award" in Thailand, 2018. He has also been awarded the "Best Excellence Award" in Delhi, 2019. He has also been awarded the "Excellence in Academics Award" in Chennai, 2020. He is an active member of 22 various Professional International Societies. He has been nominated on the board of editors/reviewers of 25 peer-reviewed and refereed Journals (including IEEE, Springer). He has conducted 3 International Conference & 6 Workshops. He has also attended 45 seminars, workshops and short-term courses in IITs, etc. He has supervised 23 M. Tech & 2 PhD Scholars and currently has been Supervising 04 PhD Scholars & 2 M.Tech Scholars. His Fourteen books have been published at the International level and two books are in the press for publications at the International level.

Dr. Abdul Rahman

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Phone: (91)9313569986

Current Research Interests: Currently, Dr. Abdul Rahman research is focused on three broad areas.

(1) Application of Fuzzy Sets and System in Natural Language Processing.
(2) Designing and Investigating aggregation operator in statistic filters to remove pepper salt noise.
(3) Application of OWA operator in Ranking of different Software Risk items in Software Risk management.

Biographical Information:

Dr. Abdul Rahman, obtained his B.Tech. degree in Computer Science and Engineering from Uttar Pradesh Technical University, Lucknow, U.P, India in 2005 and M.Tech. degree in Computer Engineering from Maharishi Dayanand University, Rohtak, Haryana, India in 2010. After that, he worked in Lingaya's University, Faridabad, Haryana from 2010-12 as Assistant Professor in Computer Science and Engineering Department. Later, he moved to Jamia Millia Islamia University, New Delhi, India and obtained his PhD degree in Computer Engineering under the guidance of Prof. M. M. Sufyan Beg. Afterwards Dr. A.Rahman joined Jahangirabad Institute of Technology and Management, Barabanki, India as Assistant Professor and Head of Department of Computer Science Engineering in 2015. He has been with Debre Tabor University, Debre Tabor, Ethiopia during 2016 - 2018, as Assistant Professor in the Department of Computer Science. He also worked in Sree Dattha Group of Institutions, Hyderabad as Assistant Professor, in Computer Science and Engineering Department from 2018 - 2019. In 2019, he joined Department of Computer Science and Engineering, K L University as Associate Professor.

Selected Publications:

1. **Abdul Rahman**, M.M.S. Beg, Face Sketch Recognition- An Application of Z-Numbers with **Springer** International Journal of Information Technology, (BJIT) ISSN 0973-5658.
2. **Abdul Rahman**, M.M.S. Beg, Face Sketch Recognition Using Sketching With Words, Published in **International Journal of Machine Learning and Cybernetics** Int. J. Mach. Learn. & Cyber. DOI 10.1007/s13042-014-0256-y **Springer** 2014 ISSN 1868-8071.
3. **Abdul Rahman**, M.M.S. Beg. Estimation of f-validity of Geometrical Objects With OWA Operator Weights, An extended paper, in Special Issue of BIJIT on Fuzzy Logic of BVICAM's International Journal of Information Technology, ISSN 0973-5658January- June, 2014 Vol.6, No. pp 665-663.
4. **Abdul Rahman**, Tanvir Ahmad, M.M.S. Beg. "Ranking Of Fuzzy Similar Faces By Using OWA Operator Weights And Relevance Matrix" , published in International Conference on Soft Computing and Software Engineering (SCSE 2015) 6-7 March, 2015**, UC Berkley, USA.Elsevier,2015**.
5. **Abdul Rahman**, M.M.S. Beg. "Investigation of OWA Operator Weights for Estimating f-validity of Geometrical Objects" , in Third Annual World Conference on Soft Computing, (WCSC-2013) San Antonio, **Texas, USA**.
6. **Abdul Rahman**, M.M.S. Beg. "Estimation of f-validity of Geometrical Objects With OWA Operator Weights", **Fuzz-2013 IEEE** International Conference on Fuzzy Systems on July 7-10 , 2013 Hyderabad India.

Dr. Anima Naik

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Phone: (91)8655004052

Current Research Interests: Currently, Dr. Anima Naik's research is focused on

(1) A comparative study of recently proposed population based optimization techniques on solving global optimization problems as well as real life problems.
(2) Solving real-life problems using Social group optimization technique.

Biographical Information:

Dr. Anima Naik obtained her B.Sc, M.Sc and MPhil degree in Mathematics from Sambalpur University, Odisha, India in 1995, 1997 and 1998 respectively. After that she joined as Lecture in Mathematics in Jagannath Institute of Technology Management(JITM), Odisha in 2000. In 2005 she joined NIT, Surathkal for MTech in Computer Science and Engg. After that in 2007 she joined as Assistant prof in Computer Science and Engg deptt. of Majhighariani Institute of Technology and Science(MITS), Rayagada, Odisha. In 2015 he completed her Phd degree from Centurion University of Technology and Management in the Department of Computer Science and Engg. After that in 2016, she joined as Adjunct Prof in A.C.Patil Engg College, Navi Mumbai. In 2019, she joined as Associate Professor in department of computer science and engg., K L University Hyderabad.

Selected Publications:

- Suresh Chandra Satapathy**, Anima Naik** & K. Parvathi **(2013**)," A teaching learning based optimization based on orthogonal design for solving global optimization problems" ***SpringerPlus Journal* ,** 2(1), 130, 2013.
- Suresh Chandra Satapathy, **Anima Naik**& K. Parvathi**(2013)**," Weighted Teaching-Learning-Based Optimization for Global Function Optimization",***Applied Mathematics*,**4(3), 429, 2013.
- Suresh Chandra Satapathy, **Anima Naik**& K. Parvathi**(2013)**," Rough set and teaching learning based optimization technique for optimal features selection**", Central European Journal of Computer Science**, 3(1), 27-42, 2013
- Suresh Chandra Satapathy &**Anima Naik(2013),"**A Modified Teaching-Learning-Based optimization (*m*TLBO) for Global Search**", Journal of *Recent Patents on Computer Science, 6,* 60-72, 2013.**
- Satapathy, S.C., Naik, A. and Parvathi, K. (2013) 'Unsupervised feature selection using rough set and teaching learning-based optimisation', ***Int. J. Artificial Intelligence and Soft Computing*,** 3(3),244–256.
- SureshChandraSatapathy,AnimaNaik,"ModifiedTeaching-Learning-Based optimization algorithm for global numerical optimization-A comparative study".**International Journal of Swarm and Evolutionary Computation**, **Elsevier** 16, 28-37, 2014.
- S. Satapathy and A. Naik, "Social group optimization: a new population evolutionary optimization technique", Complex & Intelligent Systems, 2 (3), 173-203, 2016
- Anima Naik, Suresh Chandra Satapathy, Amira S. Ashour, Nilanjan Dey, Social group optimization for global optimization of multimodal functions and data clustering problems. **Neural Computing and Applications** 30(1): 271-287, 2018

Link to Research papers

- **For Google Citation**
  Link : https://scholar.google.co.in/citations?user=l9avkUoAAAAJ&hl=en
- **For Scopus Index**
  Link **:** https://www.scopus.com/authid/detail.uri?authorId=54795567000
- **For DBLP**
  Link : https://dblp.org/pers/hd/n/Naik:Anima
- **For Semantic Scholar**
  Link: https://www.semanticscholar.org/author/Anima-Naik/39657183
- **For Research gate link**
  Link: https://www.researchgate.net/profile/Anima_Naik

Dr.Arunava De

Name : Dr.Arunava De

Designation: Professor

Research Interests: Medical Image Processing, Soft Computing

Education:

1. **Ph D -ECE** from National Institute of Technology, Durgapur, West Bengal.
2. **M.Tech-ECE** from West Bengal University of Technology,West Bengal.
3. **Post Graduate Diploma in Information Technology**, IIT Kharagpur, West Bengal.
4. **B.E.-Electrical and Electronics**, SDMCET, Karnatak University, Dharwad.

Total Experience: 18 years in Teaching

Total research Publications in International Journals/ Conferences : 26

Ph.D Students : Thesis Submitted 03, NIT Durgapur-02 , JNU,Jaipur- 01

Awards/Scholarships:

1.TOEFL(Test of English as a Foreign Language) - Qualified

2. Scholarship- Govt.of India & Italy-"Invest your Talent in Italy"

3.Best Paper Award: ICCPCT, IEEE, Noorul Islam University,T.N, India,2013

Awards for teaching excellence: 01

Countries visited: Italy

Dr. Balla Chandra Shekar,

Assistant Professor, Emp ID 5707

Dept. of Mathematics,

K U University

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Mobile: 08801948709

Current Research Interests: Currently, Dr. B Chandra Shekar's research is focused on the broad areas.

(1) Numerical solutions of Natural convection and heat transfer in the geometries such as plate, sheet, cavity, duct, channel.
(2) Finite element analysis of Nanofluid flow, heat transfer and mass transfer in porous media saturated geometries such as plate, sheet, cavity, duct, channel, enclosure.
(3) Numerical solution of Bioconvection in nanofluid flow, heat and solute transfer in cavity:

Biographical Information:

Dr. Balla obtained his B.Sc degree from Osmania University, Telangana in 2001, M.Sc degree in Mathematics from Kakatiya University, India in 2004. He was awarded **CSIR Junior Research Fellowship** and qualified **NET** in DEC-2010, besides qualifying **GATE-2010** with all India rank 33. He obtained Doctor of Philosophy from Osmania Univesity on "Computational Fluid Dynamics" in 2016. He worked as an Assistant Professor, Associate Professor and HOD H&S, in various reputed engineering institutions for 15 years. He is **Life member** in ***Indian Society of Theoretical and Applied Mechanics* (*ISTAM*)** and ***Andhra Pradesh and Telangana Society for Mathematical Sciences***. He has 15 publications to his credit out of which 5 are SCI and 10 are SCOPUS indexed. Presently he is working as Assistant Professor in department of Mathematics, K L University, Hyderabad.

Selected Publications:

1. Chandra Shekar Balla, Kishan Naikoti, C. Haritha, Convection in Nanofluid-Filled Porous Cavity with Heat Absorption/Generation and Radiation. **Journal of Thermophysics and Heat Transfer**. *American Institute of Aeronautics and Astronautics,* Vol. 31(3), pp. 549-562 (2016), https://doi.org/10.2514/1.T5010 (WoS, ISSN 0887-8722)
2. C.S. Balla, N. Kishan, Ali J Chamkha, Soret and Dufour effects on MHD natural convective heat and solute transfer in fluid saturated porous cavity, **Journal of Porous Media**, *Begel House Inc.*, Vol. 19(8), pp. 669-686 (2016). DOI: 10.1615/JPorMedia.v19.i8.20 (WoS, ISSN 1091-028X)
3. Chandra Shekar Balla, C. Haritha, Kishan Naikoti, MHD convection in a porous square cavity filled by a nanofluid with viscous dissipation effects. **Proceedings of the Institution of Mechanical Engineers, Part E: J Process Mechanical Engineering**, *SAGE Publications*, *In press,* (2018). https://doi.org/10.1177/0954408918765314 (WoS, ISSN: 0954-4089)
4. C. S. Balla, C Haritha, N. Kishan, AM Rashad, Bioconvection in nanofluid-saturated porous square cavity containing oxytactic microorganisms, ***International Journal of Numerical Methods for Heat & Fluid Flow***, 2019, Vol. 29(4), 1448-1465. (WoS, DOI https://doi.org/10.1108/HFF-05-2018-0238)

Dr.BAZEER AHAMED

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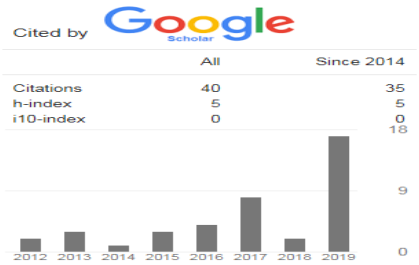

Current Research Interests: Currently, Dr. Bazeer Ahamed's research is focused on two broad areas.

1. Extending Internet search model by enhancing the availability, reliability and usability of the users through World Wide Web.
2. Designing new computing solutions to address real-world problems and to enhance the machine to learn technologies through human minds.

Biographical Information:

Bazeer Ahamed received a Bachelor of Technology in Vel Tech Engineering College, Affiliated to Anna University, Chennai, India and Master of Computer Science Engineering in Anna University of Technology, Tiruchirapalli, India .Ph.D From Sathyabama Institute of Technology and Science, Chennai India. He has published more than 20 peer reviewed international journals and participated in several high profile conferences. At present he is working as Associate Professor in the Department of Computer Science and Engineering , Koneru Lakshmaiah Education Foundation , India. Prof.Bazeer research is mainly focused on Data Mining &Information retrieval; additionally his research includes Networks, Data bases, Big Data. He is a Member of IEEE,ISTE, IAENG, and CSTA. He chaired the several sessions at National and International Conferences.

- Editor For: (15 Chapter): **Deep Learning Techniques and Optimization Strategies in Big Data Analytics**-This book is scheduled to be published by IGI Global (formerly Idea Group Inc.) www.igi-global.com. This publication is anticipated to be released in 2020.(https://www.igi-global.com/publish/call-for-papers/submit/3740)
- **Patent published** for the title "**I-SOIL TEST-Intelligent IoT Based Soil Fertilization Test and Their Solutions**" in Patent Office-Intellectual Property office Building, Chennai, Application No: 201941031950, Date: 07/08/2019,Page no:39637.

Selected Publications:

- M.Sivaram , **B.Bazeer Ahamed** et.al "Expert System in Determining the Quality of Superior Gourami Seed Using Forward Chaining-Based Websites" Second International Conference, ICETCE 2019 Jaipur, India, February 1–2, 2019, Emerging Technologies in Computer Engineering: Microservices in Big Data Analytics, Print ISBN978-981-13-8299-4,https://doi.org/10.1007/978-981-13-8300-7_26, Springer, Singapore.
- **B.Bazeer Ahamed** & D.Yuvaraj, "Framework for Faction of Data in Social Network Using Link Based Mining Process" Published in 2018, International conference on Intelligent Computing & Optimization, Thailand, Indexed in Advances in Intelligent Systems and Computing, Springer series, ISBN 978-3-030-00979-3,DOI:https://doi.org/10.1007/973-3-030-00979-3_31,page 300-309,2019.11
- **B.Bazeer Ahamed** & T.Ramkumar,"Proficient Information Method for Inconsistency Detection in Multiple Data Sources", International Journal of Artificial Intelligence,Vol.16, March 2018, pages 182-194,ISSN : 0974-0635 (Scopus Indexed).
- **B.Bazeer Ahamed** & T.Ramkumar,"Proficient Information Method for Inconsistency Detection in Multiple Data Sources", International Journal of Artificial Intelligence,Vol.16, March 2018, pages 182-194,ISSN : 0974-0635 (Scopus Indexed).
- **Bazeer Ahamed** & T.Ramkumar, "Deduce User Search Progression with Feedback Session"in the International Journal of Advances in Systems Science and Application, ISBN 1078-6236 (Dec-2015) Vol.15 No.4 Page No:374-391. (Scopus Indexed).

Dr.A.Benjamin Joseph

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Phone: (91)6360920332

Current Research Interests: Currently, Dr. A. Benjamin Joseph's research is focused on three broad areas.

(1) Compression and decompression of medical images using artificial intelligence techniques.
(2) Feature extraction and classification of mammogram images using artificial intelligence techniques.
(3) Optimization of current techniques in detection of Brain Tumor using artificial intelligence techniques.

Biographical Information:

Dr. JK Singh obtained his B.E degree in Electronics and Communication, from Manonmaniam Sundarnar University, TamilNadu, India in 2003 and M.E degree in Communication Systems from Anna University, India in 2005. After that, he worked in various private engineering colleges in Tamil Nadu for a period of five years. Later, he moved to Anna University for pursuing PhD in the field of image processing as a full time Scholar under the supervision of Dr.R.Baskaran. Worked as Associate professor in private engineering colleges and currently working as Associate Professor in K L University.

Selected Publications:

1. A.Benjamin Joseph, M. Priyadharshini, R. Baskaran & P.Dhavachelvan, "Analysis of data compression techniques for cloud storage optimization", Wulfenia Journal (ISSN-1561-8826), Vol 19, No. 11;Nov 2012.

2. A.Benjamin Joseph and R. Baskaran, "Improved edge preserving lossy image compression using wavelet transform ", Proceedings of the International Conference on Advances in Computing, Communications and Informatics-ACM (978-1-4503-1196-0), Pp-884-888, 2012

3. A.Benjamin Joseph, R. Baskaran and Karthigadevi.S, "Heterogeneous Approach of Quality Preserving Image Compression Technique Using Wavelet and Contourlet Based Interpolation", in proceedings of the International Conference on Signal, Image Processing and Electrical Engineering Applications (ISBN-978-981-7-0995-2), Chennai, India, PP-31-35, December 2011.

4. A.Benjamin Joseph and R. Baskaran, "Enhanced Quality Preserved image Compression Technique using Edge Assisted Wavelet Based Interpolation", in proceedings of the International Conference on Advanced Computing, Networking and Security, Mangalore, India December 2011. LNCS Springer

5. Benjamin Joseph and R. Baskaran, "Still Image Compression Technique Using Edge Based In Painting and Wavelet Transform" in Journal of Computing Volume-4 Issue-4, 2012, pp 82-85.

6. A.Benjamin Joseph, M. Priyadharshini & R. Baskaran " Intelligent detection and classification of microcalcification in compressed mammogram image" Image analysis and stereology journal" Vol-34, No-3,pp-183-198,2015.

Dr. Chandravati Prajapati

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Phone: 8008588820

Research Interests:

Spin-orbit Interaction of light using electro-optic and photorefractive materials
Weak measurement to measure the tiny optical effects
Polarimetry, Interferometry

Education and work experience:

B.Sc.: DDU Gorakhpur University, Gorakhpur, UP, 2003
M.Sc.: DDU Gorakhpur University, Gorakhpur, UP, 2005
Ph.D: Optics and Photonics from IIT Delhi, New Delhi, 2013.
PDF: Dr. D S Kothari Fellow, University of Hyderabad, Telangana, 2013 to 2017
Assistant Professor in KLEF, Hyderabad from June, 2017 to till date.

Research

Research grants/Consultancy: **SERB Research grant under TARE scheme** from November 2018 to November 2021. Title: "*Study of spin-orbit interaction of light using electro-optic and photorefractive materials for optical applications"*

Recent Publications:

1. Konstantin Y Bliokh, **Chandravati Prajapati,** C T Samlan, Nirmal K Viswanathan and Franco Nori, "Spin-Hall effect of light at a tilted polarizer" *Optics Letters* **Vol 44 (18)** (2019), (in Press) ISSN: 2040-8978, **SCI Impact Factor: 3.87**
2. **Chandravati Prajapati** and Nirmal K Viswanathan, "Observation of diffractive-correction and spin-orbit interaction induced effects around the Brewster angle" *Journal of Optics* **Vol 21 (8)** (2019), 084002, ISSN: 2040-8978, **SCI Impact Factor: 2.75**
3. **Chandravati Prajapati** and Nirmal K Viswanathan, "Enhancement of weak spin-Hall shift using higher-order Laguerre-Gaussian beams" *OSA Continuum* **Vol 1(3)**, 872-881 (2018), ISSN: 2040-8978, **SCI Impact Factor: NA (New SCI Journal, to be available in 2020)**
4. **Chandravati Prajapati** and Nirmal K Viswanathan, "Simultaneous measurement of angular and spatial Goos-Hänchen and Imbert-Fedorov shifts" *Journal of Optics* **Vol 19**, 105611 (2017), ISSN: 2040-8978, **SCI Impact Factor: 2.75**
5. **Chandravati Prajapati,** "Numerical Calculation of Beam Shifts for Higher-order Laguerre-Gaussian Beams upon Transmission" *Optics Communications* **Vol 389**, 390 (2017). ISSN: 1084-7529. **SCI Impact Factor: 1.96**
6. Konstantin Y Bliokh, C T Samlan, **Chandravati Prajapati**, Graciana Puentes, Nirmal K Viswanathan and Franco Nori, "Spin-Hall effect and circular birefringence of a uniaxial crystal" *Optica* **Vol 3**, 1039 (2016). ISSN: 2334-2536. **SCI Impact Factor**: **9.26**
7. **Chandravati Prajapati,** Shankar Pidishety and Nirmal K Viswanathan, "Polarimetric measurement method to calculate optical beam shifts" *Optics Letters* **Vol 39**, 4388 (2014). ISSN:0146-9592. **SCI Impact Factor**: **3.87**

Dr. Diksha Dhar

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Current Research Interests: Dr. Dhar's research is focused on two broad areas.

(1) To explore urban visual cultures as a site of observing identity negotiations among various publics that inhabit the postcolonial everyday
(2) To explore the concept of native classrooms as they indulge in sustainable and native pedagogies of language acquisition while being sensitive to the socio-culture backgrounds of the learners.

Biographical Information:

Dr. Diksha Dhar is a Visual Culture scholar and an English Language Educator. As a researcher, she has a PhD in Visual Culture from the School of Interdisciplinary Studies, EFL University, Hyderabad and a Masters in English with a specialization in Literary and Cultural Studies from the same university. During her PhD, she was a Fulbright Nehru Doctoral Fellow visiting University of Pennsylvania, USA. She has recently finished her Archival and Museum Fellowship at CSSSC.
As a language educator, she has an experience of 6 years, consulting on the English language needs and requirements of developing communities, on a number of SRTT, NRTT, GOI projects. She is driven by a passion for bringing sustainable education for those who need it the most. She joined KL (Deemed to be University), Hyderabad in July 2019

Awards:
Fulbright Nehru Doctoral and Professional Fellowship 2016 (visiting University of Pennsylvania)
Indian Foundation for the Arts Archival and Museum Fellow 2019 (visiting Centre for Studies in Social Sciences, Calcutta)

Publications:

Edited Books
"South Asian Cultural Studies" Routledge with Gupto A, Gupta P (eds.)

Text/ Reference Books
"Let's meet Dugi and Birsa! Visual Learning Resource for itun English, Grade 2 and Cohort 1b" Khunti, Jharkhand, CInI (TATA Trusts). Print. ISBN: 978-81-938380-4-4
"Let's visit Dugi and Birsa's Village! Visual Learning Resource for itun English, Grade 3 and Cohort 1c" 2018: Khunti, Jharkhand, CInI (TATA Trusts). Print. ISBN: 978-81-938380-5-1
"*itun* English, Language Learning Resource, Cohort 1a", Khunti, Jharkhand, CInI (TATA Trusts). Print. ISBN: 978-81-938206-5-0 With Nainala, SK.

"*itun* English, Language Learning Resource, Cohort 1b", Khunti, Jharkhand, CInI (TATA Trusts). Print. ISBN: 978-81-938206-6-7 With Nainala, SK.
"*itun* English, Language Learning Resource, Cohort 1c", Khunti, Jharkhand, CInI (TATA Trusts). Print. ISBN: 978-81-938206-7-4 With Nainala, SK.
"*itun* English, Language Learning Resource, Cohort 3a", Khunti, Jharkhand, CInI (TATA Trusts). Print. ISBN: 978-81-938206-8-1 With Nainala, SK.
"*itun* English, Language Learning Resource, Cohort 3b", Khunti, Jharkhand, CInI (TATA Trusts). Print. ISBN: 978-81-938206-9-8 With Nainala, SK.
"*itun* English, Language Learning Resource, Cohort 2a", Khunti, Jharkhand, CInI (TATA Trusts). Print. ISBN: 978-81-938380-2-0 With Nainala, SK.
"*itun* English, Language Learning Resource, Cohort 2b", Khunti, Jharkhand, CInI (TATA Trusts). Print. ISBN: 978-81-938380-3-7 With Nainala, SK.

Chapters in Book

"The Curious Case of the Anxious City in South Asia: Articulating Plurarity in the Media." TIME and TEMPORALITY in the Asian and European Modernity in India, ed. Prof. Brughart Schimdt, University of Vechta, Germany. Print.
"From Privatising World Peace to Avenging the World: A Study of Peace and Fear Negotiations in the Marvel Cinematic Universe", Feeding Cultural Fear: Essays on Films During a Time of Transition, *1998-2020,* ed. Prof. Ashley Carranza, College of Southern Nevada, McFarland Publishing. Print.

"The Spectacular and the Mundane: Exploring the Everyday in Indian Railways", South Asian Cultural Studies. Ed. Prof. Arun Gupta. IACER Nepal. Routledge. Print.
"Deciphering Identity in Calcutta: A Spatio-Temporal Reading of the Maidan", ed. Prof. Zakir Hussain Raju. Independent University, Bangladesh, University Press Limited. Print.

Peer Reviewed Articles

"*Where do Minority Pasts Lie in the Modern City? Exploring Articulations of Conflict in Urban Spaces*," Critical Imprints, Vol. 7 Journal of the English Department, Loreto College Kolkata. (Forthcoming) ISSN 2319-4774
"*Consuming Culture and the Location of Cultural Landscape of West Bengal: Exploring the Kolkata Antorjatik Boi Mela*". International Journal of English Language, Literature, and Humanities Vol 6(5) Web ISSN 2321-7065 (Impact factor: 5.7; UGC Approved Journal No. 43979)
http://www.ijellh.com/OJS/index.php/OJS/article/view/3769
"*Commemorating the Bhadralok: Exploring Culture as Governance in the Context of West Bengal*", International Journal of Innovative Studies in Sociology and Humanities Vol 3(5), p.13-20. Web ISSN 2456-4931 (UGC Approved Journal No. 62928 http://ijissh.org/articles/2018-2/volume-3-issue-5/
"*Museums as Memory Theatre: A Visit to the Salar Jung Museum in Hyderabad"*, International Journal of Research in Humanities, Arts and Literature Vol. 6(5) p.457-460 Web ISSN 2321-8878. (Impact Factor: 3.7985; UGC Approved Journal No.40893)
http://www.impactjournals.us/journals.php?id=11&jtype=2&page=63

Dr. Ennala Deepa: Assistant Professor , Deputy HOD of Konneru Lakshamaiah (deemed to be) University, Hyderabad

Education:
PhD – Acharya Nagarjuna University
MBA – ICFAI

Experience: 11 years of rich experience in corporate world and 2 years in academic.

Teaching Subjects: Marketing Management , Business Legislation, Consumer Behaviour, Retail Marketing

Research Area of Interest: Consumer Behaviour, Retail Marketing, New Product Development.

JOURNALS:

- Growth of Health Insurance In Rural Areas, India. ISOR Journal, International Organization Of Scientific Research e-ISSN: 2278-487X p-ISSN: 2319-7668
- Digital Marketing A Catalyst In Creating Brand Through Customer. Journal Of Global Management Outlook ISSN – 2277 3789
- Reskill-Kill Risk – A Human Resource Retention Strategy. Journal Of Global Management Outlook ISSN – 2277 3789
- Importance Of Consumer Behavior – A Case Study Pf Maggi Noodle, Nestle India Journal Of Global Management Outlook ISSN – 2277 3789
- Health Nation Is A Wealthy Nation – Importance Of Universal Healthcare In India – ISBN No: 978-93-5288-084-3 Challenges of New India – Realizing a Billion Aspirations - PVP Siddhartha Institute of Technology

Professor M P Mallesh

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Current Research Interests: Currently, Dr. M P Mallesh's research is focused on three broad areas.

1. Numerical methods: Finite difference and Finite Element methods.
2. Heat and Mass Transfer on Newtonian and Boundary Layer flows.
3. Nanofluids flows and Magneto hydrodynamics.

Biographical Information:

Dr. M P Mallesh obtained his B.Sc degree in Mathematics, Physics and Chemistry from Osmania University, A.P, India in 1997 and M.Sc degree in Mathematics from Osmania University, India in 2002. After that, he worked as Lecturer in Mathematics at Shalivahana Degree college, Tandur 2002-06. Later, he did his Bachelor of Education from Osmania University from 2006-07. Again he joined as Assistant Professor in the Department of Mathematics at Shadan College of Engineering and Technology at Hyderabad and worked there from 2007 to 2013. In 2012 he has qualified APSET conducted by UGC and obtained Assistant Professorship. Later, he joined in Ph.D at GITAM Institute of Science, GITAM University, Visakhapatnam under the Guidance of Prof. Vemula Rajesh. Later, he worked as Assistant Professor in the Department of Mathematics at Avanthi Institute of Engineering and Technology at Hyderabad from 2017 to 2018. In June 2018, he joined as Assistant Professor in department of Mathematics, K L Deemed to be University, Hyderabad Campus, Hyderabad.

Selected Publications:

1. V. Rajesh, A.J. Chamkha and **M. P. Mallesh**, Nanofluid flow past an impulsively started vertical plate with variable surface temperature, **International Journal of Numerical Methods for Heat & Fluid Flow,** Vol. 26 No. 1, pp. 1-21, 2016. **SCI & Scopus – Journal, 2016 Impact Factor: 1.713, (5-year Impact Factor) (2016): 1.707**).
2. V.Rajesh, A.J. Chamkha and **M.P.Mallesh**, Transient MHD free convection flow and heat transfer of nanofluid past an impulsively started semi-infinite vertical plate, **Journal of Applied Fluid Mechanics**,Vol. 9, No.5, pp.2457-2467, 2016. **SCIE and SCOPUS Journal, IF = 1.07**
3. V Rajesh, O Anwar Beg, **M P Mallesh**, Transient nanofluid flow and heat transfer from a moving

vertical cylinder in the presence of thermal radiation: Numerical study, **Proc IMechE Part N: J Nanoengineering and Nanosystems**, OnlineFirst, published September 5, 2014. **Scopus –Journal. RG Journal Impact: 0.35.**

4. V. Rajesh, **M. P. Mallesh** and Ch. Sridevi, Transient MHD nanofluid flow and heat transfer due to a moving vertical plate with thermal radiation and temperature oscillation effects, Published in **Procedia Engineering,** 127, pp. 901–908 **RG Journal Impact:0.73. Elsevier-journal, Scopus-Journal.**

5. V. Rajesh, **M. P. Mallesh** and O. Anwar Bég, Transient MHD free convection flow and heat transfer of nanofluid past an impulsively started vertical porous plate in the presence of viscous dissipation, Published in **Procedia materials science**, Vol.10, pp.80-89, 2015. **Elsevier-Journal (Scopus).**

6. V. Rajesh and **M. P. Mallesh**, MHD Nanofluid flow and heat transfer past a vertical oscillating plate with thermal radiation, viscous dissipation and heat generation, published in the **Proceedings of the 23rd National Heat and Mass Transfer Conference and 1st International ISHMT-ASTFE Heat and Mass Transfer Conference (IHMTC2015),** Thiruvananthapuram, Kerala, India, December 17-20, (2015).

7. **M.P.Mallesh**, V.Rajesh, M.Kavitha and A.J. Chamkha,Presented a Paper titled "Numerical modeling of transient free convective kerosene- nanofluid flow with viscous dissipation past a porous plate" in International Conference of Applied Fluid Dynamics (ICAFD), VIT, Vellore, Dec 13-15 **(2018)**.

8. M.Kavitha, V.Rajesh, **M.P.Mallesh**, and A.J. Chamkha, Presented a Paper titled "Transient CNTs Kerosene Oil Based Nanofluid With Heat Transfer Past A Vertical Plate With Thermal Radiation", in International Conference of Applied Fluid Dynamics (ICAFD), VIT, Vellore, Dec 13-15 **(2018)**.

Dr. Rakhi Bhattacharya

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Current Research Interests: Currently, Dr. Rakhi Bhattacharya's research is focused on three broad areas.

(1) Generation of Orbital angular momentum and vector beams using Photonic Crystal Fibers emphasis on mode division multiplexing.
(2) Microstructure Optical Fiber coated with Zinc Oxide Nano-rods for optical sensor applications.
(3) Polarimetry technique for birefringence calculation of Special Fibers or photonic crystal fibers.

Biographical Information:

Dr. Rakhi Bhattacharya obtained her B.Sc. degree in Physics, Chemistry and Mathematics from Kirodimal Govt. Arts and Science College Raigarh, Chhattisgarh, India in 2001 and M.Sc. degree in Electronics from Guru Ghasidas University, Bilaspur, Chhattisgarh, India in 2003. After that she has worked as Junior Research Fellow in DST sponsored project at Birla Institute of Technology, Mesra, Ranchi, Jharkhand, India from 2006-2008. Later she has awarded CSIR-Senior Research Fellow and worked in Birla Institute of Technology, Mesra, Ranchi, Jharkhand, India from 2008-2011. She has obtained her PhD. Degree in Applied Physics under the guidance of Professor Swapan Konar (currently Vice Chancellor of Birla Institute of Technology, Mesra, Ranchi, India) in 2014. She has worked in University of Hyderabad as Post-Doctoral research fellow under the supervision of Professor Nirmal Kumar Vishwanathan in 2015. She has been awarded as SERB- Young scientist in 2016 and worked at University of Hyderabad till 2018. Meanwhile she has moved to KTH Royal Institute of Technology, Stockholm, Sweden for collaborative research work for the period of six month in the year 2017-18. In 2018, she joined as assistant Professor in department of physics, KL University Hyderabad campus.

Selected Publications:

1. Rakhi Bhattacharya, "Generation of phase singular optical beams in microstructure optical fibers", Optics Communications, vol. 428, 15-21, (2018).
2. Rakhi Bhattacharya and S. Konar, "Extremely large birefringence and shifting of zero dispersion wavelength of photonic crystal fibers", Optics and Laser Technology, vol.44, 2210, (2012).
3. Rakhi Bhattacharya and S. Konar, "Dual core photonic crystal fiber for dispersion compensation", Journal of Nanophotonics, vol. 6, 063520-1, (2012).
4. Rakhi Bhattacharya and S. Konar, "Design of Microstructure Fibers with Flat Negative Dispersion Over Large Wavelength Bands", Optoelectronics and Advanced Materials vol. 10, 3159-3164, (2008).
5. S. Konar, S.K. Ghorai and Rakhi Bhattacharya, "Highly Birefringent Microstructure Fiber with Zero Dispersion Wavelength at 0.64 μm", Fiber and Integrated Optics vol. 28, issue 3, 138, (2008).
6. Rakhi Bhattacharya and S. Konar, "Design of Photonic Crystal Fiber with Zero Dispersion Wavelength near 0.65 μm" Fiber and Integrated Optics vol. 27,issue 2, 89 (2008).
7. S. Konar and Rakhi Bhattacharya, "Design of Photonic Crystal Fibers for Dispersion Compensation Over S ,C and L bands" Optoelectronics and Advanced Materials-Rapid Communications vol. 11, 442-447 (2007).

Dr. S. SANJAY

Assistant Professor
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Current Research Interests:

Currently, Dr S Sanjay's research is focused on:

1. Gallium Nitride and Gallium Oxide – Nanowires based Opto-Electronic Devices
2. Graphene based Nitride Semiconductor Devices

Biographical Information:

Dr S Sanjay received his Ph.D in Technology from Crystal Growth Centre, Anna University, Chennai, India in 2019. His Ph.D work was concerned with the "growth and characterization of gallium nitride nanostructures / microstructures on sapphire, gallium nitride and graphene substrates by chemical vapour deposition". There he was involved in the fabrication of gallium nitride nanowires on different substrates for opto-electronic applications. From October 2017 to November 2017 and May 2018, he worked at the Centre for Nano Science and Engineering (CeNSE), Indian Institute of Science, Bangalore. He was involved in the area of semiconductor device fabrication and its characterizations. He extensively used cleanroom facilities for his research regarding semiconductor, materials and device processing. He has published about 10 publications in the peer reviewed international journals. In June 2019, he joined in KLEF Hyderabad as an Assistant Professor in Department of Electronics and Communication Engineering.

Articles under Review

1. **S. Sanjay,** K. Prabakaran, K. Baskar, Epitaxy of gallium nitride pyramids on few layer graphene for metal-semiconductor-metal based photodetectors, **Materials Chemistry and Physics. (Under Review).**

Selected publications:

1. **S. Sanjay,** K. Prabakaran, K. Baskar, Catalytic growth of gallium nitride nanowires on wet chemically etched substrates by chemical vapour deposition, **ACS Omega (Accepted). [Impact Factor – 2.5]**

2. K.Prabakaran, R.Ramesh, P.Arivazhagan, M.Jayasakthi, **S.Sanjay**, S.Surender, S.Pradeep, M.Balaji, K.Baskar, Effects of indium flow rate on the structural, morphological, optical and electrical properties of InGaN layers grown by metal organic chemical vapour deposition, **Journal of Alloys and Compounds**, **(**https://doi.org/10.1016/j.jallcom.2019.151803**). [Impact Factor – 4.1]**

3. K. Prabakaran, M. Jayasakthi, S. Surender, S. Pradeep, **S. Sanjay**, R. Ramesh, M. Balaji, K. Baskar, Influence of InGaN Interlayer thickness on GaN layers grown by Metal Organic Chemical Vapour Deposition, **Applied Physics A**, 125, **2019**, 206-212. **[Impact Factor – 1.7]**

4. K. Prabakaran, M. Jayasakthi, S. Surender, S. Pradeep, **S. Sanjay**, R. Ramesh, M. Balaji, Nicolas Gautier, K. Baskar, Structural, Morphological, Optical and Electrical Characterization of InGaN/GaN MQW Structures for Optoelectronic Applications, **Applied Surface Science**, 476, **2019**, 993-999. **[Impact Factor – 4.4]**

5. K. Prabakaran, M. Jayasakthi, S. Surender, S. Pradeep, **S. Sanjay**, R. Ramesh, M. Balaji, K. Baskar, Investigations on morphology, growth mode and indium incorporation in MOCVD grown InGaN/n-GaN heterostructures, **Optik-International Journal for Light and Electron Optics**, 175, **2018**, 154-162. **[Impact Factor – 1.2]**

6. **S. Sanjay,** K. Baskar, Fabrication of Schottky barrier diodes on clump of gallium nitride nanowires grown by chemical vapour deposition, **Applied Surface Science**, 456, **2018**, 526-531. **[Impact Factor – 4.4]**

7. **S. Sanjay,** K. Prabakaran, Shubra Singh, K. Baskar, Growth of gold-palladium alloy catalyzed gallium nitride nanowires by chemical vapour deposition, **Materials Letters**, 217, **2018**, 100-103. **[Impact Factor – 2.6]**

8. **S. Sanjay,** K. Prabakaran, Shubra Singh, K. Baskar, Catalyst-free deposition of few layer graphene on c-plane sapphire substrates by drop casting technique, **Journal of Materials Science: Materials in Electronics**, 29, **2018**, 4413-4421. **[Impact Factor – 2.3]**

9. **S. Sanjay,** K. Prabakaran, Shubra Singh, K. Baskar, Growth and Characterization of Gallium Nitride Nanowires on Nickel/Sapphire Template by Chemical Vapour Deposition, The Physics of Semiconductor Devices, **Springer Proceedings in Physics**, **2017.**

10. K. Prabakaran, S. Surender, S. Pradeep, **S. Sanjay**, M. Jayasakthi, R. Ramesh, E. Faulques, M. Bal

Dr. Surya Bhan

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Current Research Interests: Currently, Dr. Surya Bhan's research is focused on five broad areas.

1. **Sociophonetic**
2. **Sociolinguistics**
3. **Phonetics and phonology**
4. **Discourse Analysis**
5. **Language Teaching**

Biographical Information:

Dr. Surya Bhan obtained his B.A. degree from Lucknow University, U.P, India in 2007 and M.A. degree in English from The English and Foreign Languages University, Lucknow India in 2012. He has obtained his Ph.D. in English (Linguistics and Phonetics) under the guidance of Prof. Komali Prakash from The English and Foreign Languages University, Hyderabad in 2017. During his Ph.D., he worked for two years in The English and Foreign Languages University as Teaching Assistant and taught various courses. After that, he worked in St. Francis College for women at Begumpet, Hyderabad for One semester. Later, he joined as an Assistant Professor in department of English, K L University on May 2018.

Selected Publications:

1- *'*A Study Of Syntactic Errors In English Made By The Student at Intermediate Level at Unnao ' (ISSN NO- 2277-9302 in the International Journal.) pp.- 22-24.
2- 'Enhancing the Employability of Graduates- A Case for a Relook at the Teaching of English in India.' (ISSN NO- 2277-9302 in the International Journal), pp.-12-13.
3- 'Promoting English Language Proficiency through the Teaching of Pronunciation.' (ISSN NO-2277-9302 in the International Journal). pp.- 49-51.
4- 'Assessing Employability Skills to the Graduates.' (ISSN NO-2278-0742 in the International Journal). pp.- 177-180.
5- 'Promoting English Spoken Through The Transcription In The Teachers Of B.Ed. Curriculum In Telangana – A Phonetic Study.' (ISBN: 978-93-84845-24-7 in the National Journal) pp.- 178-179.
6- 'A Sociolinguistic Study of Syntactic Errors in English Made by the Learners at Intermediate Level.' (ISSN: 2349-5189, LangLit, An International Peer Reviewed Open Access Journal). pp.-476-503.

Dr. Abhishek Kumar Shrivastava

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Phone: (91)9109840019

Current Research Interests: Currently, Dr. Abhishek Kumar Shrivastava's research is focused on two broad areas.

(1) Memristors, Memcapacitors and Meminductors, Artificial Neural networks(ANNs)
(2) Optoelectronic materials

Biographical Information:

Dr. Abhishek Kumar Shrivastava obtained his B.Tech degree in Electrical & Electronics Engg (EEE) from Sikkim Manipal University, Sikkim in 2006. After that he obtained his M.Tech in ECE and Ph.D in Electronics Engg from IIT(ISM) Dhanbad in 2008 and 2013 respectively. After that he worked in 2 private engineering colleges in Bhilai, Chattisgarh. He joined KL University, Hyderabad campus in December 2018 as an Associate Professor.

Selected Publications:

1. V. Kumar, A. K. Shrivastava, Rajib Banerji and D. Dhirhe, Debye Temperature and Melting Point of Ternary Chalcopyrite Semiconductors, Solid State Commun. (ISSN: 0038-1098) (UK) 149 (2009) 1008-1011.

2. V. Kumar, Vijeta Jha and A. K. Shrivastava, Debye Temperature and Melting Point of II-VI and III-V Semiconductors, Cryst. Res. Technol. (ISSN: 1521-4079) (Germany) 45 (2010) 920 –924.

3. V. Kumar, A. K. Shrivastava and Vijeta Jha, Bulk modulus and Microhardness of Tetrahedral Semiconductors, J. Phys. Chem. Solids (ISSN: 0022-3697) (UK) 71(2010)1513–1520.

4. V. Kumar, A. K. Shrivastava, Anita Sinha and Vijeta Jha, Dielectric Properties of Different Materials, Ind. J Pure & Appl. Phys. (ISSN: 0019-5596)51(2013) 49 –54.

5. V. Kumar, Vijeta Jha and A. K. Shrivastava, 'Debye Temperature of II-VI and III-V Semiconductors', CODEC-2009, 14-16 Dec. 2009, Univ. of Calcutta. IEEE Xplore Electronic ISBN: 978-81-8465-152-2, pp. 1-4.

6. V. Kumar and A. K. Shrivastava, 'Debye Temperature of Ternary Chalcopyrite Semiconductors', ELECTRO-2009, 22-24 Dec. 2009, IT-BHU, Varanasi. IEEE Xplore DOI:10.1109/ELECTRO.2009.5441041, pp. 560-63.

7. A. K. Shrivastava and Nishan Varghese, Self Defence Gun Based on Electromagnetic propulsion, TECHNOLOGIA-2017, 8-9 March 2017, Org. by Dept. of ET&T, CCET, Bhilai.

8. A.K.Shrivastava, Bulk Modulus & Microhardness of I-III-VI_2 & II-IV-V_2 Semiconductors, TECHNOLOGIA-2018, 8 March 2018, Org. by Dept. of ET&T, CCET, Bhilai.

Profile

Name : Dr. K . BHAVANA RAJ

Designation : Asst. Professor - Senior

Research Interests: Risk Management in Banks, Corporate Finance,

Fin-Tech,Business Analytics, Business Intelligence and Data Analytics.

Education:

Ph.D, Banking & Finance, Jawaharlal Nehru Technological University Hyderabad (JNTUH), Hyderabad, 2015.

Qualified UGC-NET (University Grants Commission-National Eligibility Test) for Lectureship in June 2011 in the Faculty of Management Sciences -Finance in the First Attempt.

MBA, Jawaharlal Nehru Technological University Hyderabad (JNTUH), Hyderabad, 2007.

B.Tech , Jawaharlal Nehru Technological University Hyderabad (JNTUH), Hyderabad, 2004.

Professional Experience (Total: Inclusive of Teaching and Industrial)

1. Presently working as Assistant Professor – Senior in Finance & Banking at KL H (Koneru Lakshmaiah Deemed to be University, Hyderabad) from June 2017.
2. Worked as Assistant Professor – Senior in Finance & Banking at NALSAR University of Law, Hyderabad in the department of Center for Management Studies from August 2013 – June 2017.
3. Worked as Assistant Professor in Finance & Banking at IBS Hyderabad, (A constituent of the ICFAI Foundation for Higher Education(IFHE),(Declared as deemed to be University U/S 3 of UGC Act,1956) , in the department of Management Studies from January 2008 – August 2013.

Research

(a) Fellowships /Awards from academic bodies

1. **Awarded as the "ILDC-AMP Women Excellence Awards 2019 : Management Teaching (Banking & Finance) " by the ILDC-AMP Women Excellence Awards 2019 is a joint initiative of two leading Indian organizations i.e. International Leadership Development Council (ILDC) - Academy of Management Professionals (AMP) and Institute of Digital Marketing & Business Analytics (IDMBA) ,** organized on International Women Day on 8th March 2019 at Hyderabad and this event is intended to honor the influential role of women in the making of today's society.

2. **Awarded as the "Best Professor in Banking & Finance"** by the **ICBM - AMP ACADEMIC EXCELLENCE AWARDS 2018**, organized by **Institute of Computers and**

Business Management –School of Business Excellence (ICBM-SBE), Hyderabad , India having International Accreditation from the ACBSP (Accreditation Council for Business Schools and Programs (ACBSP), USA held on 24th November, 2018.

3. **Received Certificate of Appreciation** for the **research paper** titled **"ROBOT PATH PLANNING USING OPTIMIZATION TECHNIQUES"**, at **2nd Annual National Conference 2018 on "Recent Advances in Power, Industrial Drives and Energy Evolutionary Technologies (RAPIDEET-2018)"**, organized by B.V.Raju Institute of Technology (UGC Autonomous) , Hyderabad ,India held during 20th -21st April , 2018.

4**. Received Certificate of Appreciation** for the **research paper** titled **"RENEWABLE ENERGY- FUTURE OF DEVELOPING COUNTRIES"**, at **2nd Annual National Conference 2018 on "Recent Advances in Power, Industrial Drives and Energy Evolutionary Technologies (RAPIDEET-2018)"**, organized by B.V.Raju Institute of Technology (UGC Autonomous) , Hyderabad ,India held during 20th -21st April , 2018.

(b) Recent Publications:

1. **"HANDLING CORPORATE CRISIS "**accepted for publication in **International Journal of Commerce, Economics and Policy, Scopus Indexed.**

2.**" Robustness of Supply Chain Management : An Interdisciplinary Conceptual Integration",**accepted for publication in **International Journal of Supply Chain Management (IJSCM), Scopus Indexed.**

3. **" A Study on Interdisciplinary Conceptual Integration of Supply Chain Management and Talent Management ",** accepted for publication in **International Journal of Supply Chain Management (IJSCM), Scopus Indexed.**

4. **"Marketing in the age of Disruption & Innovation - The Future of Marketing "**accepted for publication in **International Journal of Commerce, Economics and Policy, Scopus Indexed.**

5. **"EFFICIENCY ANALYSIS OF INDIAN BANKS USING DATA ENVELOPMENT ANALYSIS (DEA) MODEL", Global and Stochastic Analysis (GSA), Vol. 5 No. 8, 2018, pp. 541-552. ISSN: 2248-9444. Scopus Indexed**

6.**"MEASURING INEFFICIENCIES USING STOCHASTIC FRONTIER MODEL-EVIDENCE FROM THE INDIAN BANKING SECTOR ", Global and Stochastic Analysis (GSA), Vol. 5 No. 8, 2018, pp. 553-560. ISSN: 2248-9444. Scopus Indexed**

7**. "Assessment of Risk Factors in Misappropriation of Assets – Evidence from the Indian Banking Sector ", INTERNATIONAL JOURNAL OF PURE AND APPLIED MATHEMATICS (IJPAM), Vol. 118 No. 24 Special Issue, April 26th 2018, pp. 1-13. ISSN:(Online) 1314-3395. Scopus Indexed UGC Approved Journal Impact Factor 7.19. H-Index: 28↑; G-Index: 48↑; Cites/paper: 7.19↑; Cites/year: 338.18**

Professor L Koteswara Rao

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Current Research Interests: Currently, Dr. L Koteswara Rao's research is focused on two broad areas.

(1) Feature extraction of an image to create an efficient descriptor,Image representation and reconstruction using a deep learning approach.
(2) Speaker recognition using Recurrent Neural networks/LSTM.

Biographical Information:

Dr. L Koteswara Rao received his B.Tech in ECE from JNTU College of Engineering, Kakinada, Master of Engineering in ECE from Andhra University college of Engineering. He was in UK for his MS (By research, University of East London, UK).He has completed his PhD from JNTUH, Hyderabad. His research interests are Image processing, Signal Processing and Deep learning. He has 17 years of teaching experience, won the best faculty award twice for the teaching excellence.

He has 27 publications to his credit, 2 book publications, Completed one Industry project worth of Rs.2 lakhs.

Selected Publications:

1. M. Narayana,Hathiram N,S Chavan, **L. Koteswara Rao**, Intelligent visual object tracking with particle filter based on Modified Grey Wolf Optimizer" ,International Journal of light and electronic optics,193(2019),**Elsevier**.
2. **L Koteswara Rao**, P Rohini, L Pratap Reddy, Local color oppugnant patterns for image retrieval, Multidimensional systems and signal processing, **Springer,** 2018
3. GP Ram, **L Koteswara Rao**, E Mahammad**,** Coal mine disaster management robot using IoT technology,IJET,Vol.7(3),2018
4. S Chawan, M Narayana, **L Koteswara Rao**, Detection and classification of wipe transitions in sport videos in presence of object motion, IJET, Vol.7(2),2018
5. **L Koteswara Rao**, P Rohini, LEMP: a robust image feature descriptor for image retrieval applications,AJSE, **Springer** (accepted)
6. Rohini, **L.Koteswara Rao**, "Hadoop based Image Retrieval using CDLEP and Gabor Features", IJSRD, Vol 5, Issue 3, 2017
7. **L Koteswara Rao**, D Venkata Rao,L Pratap Reddy, Local mesh quantized extrema patterns for image retrieval, **Springer Plus**, 2016
8. **L Koteswara Rao**, D Venkata Rao, Local quantized extrema patterns for content-based natural and texture image retrieval, Human centric computing & information sciences HCIS **Springer** , 5:26 (1-24),Sept 2015

BRIEF PROFILE:

Dr. BURRA V L S PRASAD

PDF(BIMR, UCSD), Ph.D.(IISc), M.Sc(UOHYD), B.Tech(Ag.Engg, ANGRAU)

Head - Center for Advanced Research and Innovation in Structural Biology

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Biographical Information:

Dr. Burra V L S Prasad is an experimental structural biologist, software developer and bio-theoretician with his doctoral degree in Structural Bioinformatics, Protein Crystallography from Molecular Biophysics Unit (MBU), Indian Institute of Science (IISc), Bangalore, India. He holds B. Tech degree in Agricultural Engineering and a Masters degree in Biotechnology from School of Life Sciences, University of Hyderabad.

RESEARCH: (~13 years of Research Experience + 5.5years of PhD @ IISc)

Dr. Prasad has approximately thirteen years of research experience with around four years of Postdoctoral experience at the Burnham Institute for Medical Research (BIMR), University of California (UCSD), San Diego, USA; four years of industry experience as a first generation bioinformatics technopreneur and ten years of regular teaching experience though he has been teaching for the past 15 years. Dr. Burra V L S Prasad's experience spans most aspects of macromolecular crystallography, Drug Designing, Discovery research topics, transcriptomics data analysis using Microarray and NGS technologies, algorithms and programming.

His lab has recently solved the crystal structure of Mycobacterium tuberculosis RsmD-like Methyltransferase at a higher resolution (PDB ID-6AIE: https://www.rcsb.org/structure/6AIE) in collaboration with Dr. Sangita V, Acharya Nagarjuna University (ANU), Andhra Pradesh & Prof. T P Singh, All India Institute of Medical Sciences (AIIMS), New Delhi. Currently his research focus is on the structural and functional aspects of few potential target proteins such as RNA dependent RNA polymerase (RdRP) in collaboration with Dr. Sangita V (ANU, AP), two Tuberculosis specific novel protein targets, MtRecA (Recombinase A) and MtRRM (Rsmd-like Methyltransferase) in collaboration with Dr. K M Sinha (Amity University, Haryana). His project proposals focusing on the inhibitor design against MtRecA and MtRRM have been recently approved & sanctioned respectively, for funding by **DST:SERB (CRG/2018/003276) & ICMR (ISRM/12(07)/2019)**.

The PI worked as a member of the Joint Center for Structural Genomics (JCSG) team where he contributed to protein annotation pipeline (TOPSAN)(Krishna et al. 2010) and annotated various protein domains of unknown functions (DUFs) from T. ma.(Das, Moiani, et al. 2010), and Methanococcus jannaschia (Bakolitsa et al. 2010), Neisseria gonorrhoeae(Das, Grishin, et al. 2010) and others. During post doctoral work he has a PNAS publication where he wrote programs, implemented algorithms, analyzed entire PDB database containing approximately 75K entries to understand the inherent flexibility of protein sequences given 100% sequence identity(Burra et al. 2009). The PI has also worked on intrinsically disordered proteins and has a publication in PLoS One(Burra, Kalmar, and Tompa 2010). The PI also has experience in Microarray & NGS data analysis, software development, OOPs and C++programming and R/BioConductor Programming. He is working closely with Dr. Sarat Chandra, Head, Zoology Dept., Nagaland Central University where he is analyzing the RNA-seq and miRNA NGS data. He is an expert programmer who developed the first of its kind an object based, object oriented biological application framework and environment (www.biobhasha.org). During his postdoctoral work under UCSD Signaling Gateway Project, he designed and developed a Web application that resulted in two products a) Sci-Edit – a web embeddable WYSIWYG Editor and b) SGMP Wiki.

He has many publications in international journals including **Virology, PNAS, PLOS-One, JMB, JIB, Proteins ACTA** among others. His research interests include DNA & linguistic grammar, consciousness and its role in life parameters, genomics technologies, biological macromolecules & tensegrity, integrative medicine, biological programming, algorithms, analysis, automation and nano-biotechnology.

SUMMARY OF EXPERIENCE & EXPERTISE:

Current Ongoing Sponsored Project Grants:

	Grant Title	Funding Agency	Budget	Duration(Yrs)
1	In silico drug designing against Tuberculosis targeting a novel protein from M.Tuberculosis - N2G966 16S rRNA methyltransferase (RsmD)	**ICMR, ISRM/12(07)/2019**	**Rs. ~ 19 Lakhs**	**3**
2	Structure determination and analysis of native-, hybrid-, mutant- RecA and cy-di-AMP, complexes to develop novel allosteric inhibitors against Tuberculosis	**SERB, CRG/2018/003276**	**Rs. ~40 Lakhs**	**3**

Current Research focus:

	Domain:Title
1	**Structural Biology:** ● Crystal Structure of Rsmd-like rRNA methyltransferase is determined from AUH (Best available resolution). Further mechanistic studies are underway. ● RNA Dependent RNA Polymerases: Insights from Structure, Function and Evolution ● To design and develop an AI based methodology towards better Humanized nanobodies - A consultancy project
2	**Structural Bioinformatics:** To develop a macroscopic functional analog based methodology for identification of functionally important structural components in proteins
3	**Proteinaceous Membrane Less Organelles (PMLOs)**: To develop an artificial neural network-based predictor for phase separability from protein sequence
4	**Intrinsically Unstructured Biology:** Intrinsic disorder in Signaling Proteins
5	**Vedic Science and Traditional Knowledge:** Research on Mantra Shastra, Mudra Yoga, The Science of Yoga, Consciousness in Vedas and allied scriptures
6	**Biological Software Development & Programming:** ● **Biobhasha / BioInt :** http://www.biobhasha.org ● **SciEdit** - a web app: WYSIWYG javascript based scientific editor ● **Biblio** - A web app for bibliography management - a Reference manager ● **MoBiQ**: An Android App for Biological Data Searching and Querying
7	**Integrative Medicine:** ● Beneficial effects of Yoga and Meditation on Chronic Bronchial Asthama patients: Molecular perspectives ● Identification of Pedigree based prognostic and diagnostic molecular biomarkers for various diseases from human biomolecular secretions and excretions
8	**Metagenomics, Bioinformatics & Algorithms:** ● Development of genome size based binning algorithm to improve the organism assignment in metagenomics data analysis ● Comparative transcriptome and proteome analysis of the human gut microbiome in tropical region like Indian Subcontinent and cold(tundra) regions like Antarctica
9	**Collaboration: Immuno-Genomics:** Derivation of iPSC lines from Indian subjects for deriving functional antigen presenting cells (APC) to develop personalized immunotherapy approaches.
10	**NE Collaboration: Genomics Technologies:** Evaluation of Genetic Diversity and Core germplasm collection of Indigenous Rice in Arunachal Pradesh, Eastern Himalaya.
11	**NE Collaboration: NGS Technologies:** Understanding the sexual and olfactory dysfunction in Parkinson's Disease subjects through *Drosophila* model and therapeutic intervention

Ongoing 6 Months Student Research Projects:

	Title Of Project (At Current Position)
1	Determining intrinsic disorder in Rec A protein to design more efficient drug candidates against TB
2	Integrative translational skin disease biology
3	Design and development of python API for animation and simulation of bio macromolecules.
4	Design and Development of a web based knowledge repository of genome and proteome of body fluids
5	Isolation and characterization of Single domain antibodies from Camelidae family
6	CAR-T cell Therapy : A Review
7	Developing Novel Nasal Inhalation based Interventions to variety of Ailments
8	Discovery of Biological Pollutants in Food and their impact on human health

Expertise:

- NGS RNA-Seq, Microarray Data analysis, Bioinformatics, Intrinsically Disordered Proteins and Protein Crystallography
- Design, development and implementation of algorithms / methodologies for efficient HT data analysis, interpretation and automation
- Teaching & training in Bioinformatics, computational biology, Biotechnology domains
- BioSoftware development for Web, Desktop & Mobile & Biological Programming

Research Interests:

- Integrative translational medical research with special focus on AYUSH
- Advanced Protein structure analysis: Proteins as tensegrity structures
- Functional Mapping/modeling of genomics to phenomics
- Consciousness Research - the missing parameter for holistic health and well being

RESEARCH & DEVELOPMENT:

- Published in journals such as Virology, PNAS, JMB, ActaD, PLoS One and others.
- Collaboration with **Prof. A Chhabra** (Stem Cell Institute, AUH) and **Dr. Krishna Murari** (AIB, AUH)
- **Current North-East collaborations:**
  - **Prof. Sarat Chandra**, HoD, Dept of Animal Sciences, Nagaland Central University; Role of curcumin on Parkinson's Disease using Drosophila as model; Role: RNA-Seq Data analysis
  - **Prof. Sumpum Tangjang**, HoD, Dept of Botany, Rajiv Gandhi University, Itanagar; Evaluation of Genetic Diversity and Core germplasm Collection of Indigenous Rice in Arunachal Pradesh, Eastern Himalaya; Role: Genetic Diversity studies through analysis of NGS data using Genome typing by Sequencing (GBS) method
- Developed biosoftware & methods solutions: **MACS, BioBhasha, BOS, BioInt, SciEdit.**
- Guided more than 60 research oriented M.Tech / M.Sc / B.Sc. thesis projects

List of Publications: Selected Peer-reviewed publications (Domain Specific):

Biological Programming and Software Development:

[1] Burra V L S Prasad*, Biological Object based Software (BOS): An integrative biological programming environment, Vivechan International Journal of Research, Vol. 10, Issue 1, 2019, ISSN No. 0976-8211 (Accepted)

[2] Burra V L S Prasad*, Biological Object based Software (BOS): An integrative biological programming environment, Proceedings of National Innovation Conclave-2015, October 5-6th 2015, Allied Publishers, P:63-70,Amity University, Gurgaon.

[3] S. Desai and P. Burra*, “BioInt: an integrative biological object-oriented application framework and interpreter,” Int. J. Bioinform. Res. Appl., vol. 11, no. 3, pp. 247–256, 2015.

[4] Mohan R.K. Nimmagadda and B.V.L.S. Prasad*, “Strategic Management of Bio-Pharmaceutical Knowledge for Improved R&D Productivity,” Global Business Review, vol. 4, no. 2. pp. 257–269, 2003.

Computational Genomics, Transcriptomics: Microarray and NGS Data Analysis:

[5] M. Anand and B. V. Prasad, “The computational analysis of human testis transcriptome reveals closer ties to pluripotency,” J. Hum. Reprod. Sci., vol. 5, no. 3, pp. 266–273, Sep. 2012.

[6] D. A. Reddy, D. Ashok Reddy, B V L, and C. K. Mitra, “Comparative analysis of core promoter region: Information content from mono and dinucleotide substitution matrices,” Computational Biology and Chemistry, vol. 30, no. 1. pp. 58–62, 2006.

[7] D. A. Reddy, D. Ashok Reddy, B V L, and C. K. Mitra, “Functional classification of transcription factor binding sites: Information content as a metric,” Journal of Integrative Bioinformatics, vol. 3, no. 1. 2006.

[8] B. V. L. S. Prasaot, and M. C. Vemuri, “Genome analysis for nucleotide interactions in fully sequenced genomes of selective prokaryotes,” Journal of Biosciences, vol. 23, no. 3. pp. 255–263, 1998.

Structural Genomics and Structural & Computational Biology:

[9] S. Venkataraman et al., “Crystal structure of a new form of RsmD-like RNA methyl transferase from Mycobacterium tuberculosis determined at 1.74 A resolution.” 2018.

[10] S. Venkataraman, B. V. L. S. Prasad, and R. Selvarajan, “RNA Dependent RNA Polymerases: Insights from Structure, Function and Evolution,” Viruses, vol. 10, no. 2, Feb. 2018.

[11] P. V. Burra, L. Kalmar, and P. Tompa, “Reduction in structural disorder and functional complexity in the thermal adaptation of prokaryotes,” PLoS One, vol. 5, no. 8, p. e12069, Aug. 2010.

[12] P. V. Burra, Y. Zhang, A. Godzik, and B. Stec, “Global distribution of conformational states derived from redundant models in the PDB points to non-uniqueness of the protein structure,” Proc. Natl. Acad. Sci. U. S. A., vol. 106, no. 26, pp. 10505–10510, Jun. 2009.

[13] B. V. L. S. Prasad and K. Suguna, “Effect of pH on the structure of rhizopuspepsin,” Acta Crystallogr. D Biol. Crystallogr., vol. 59, no. Pt 10, pp. 1755–1761, Oct. 2003.

[14] B. V. L. S. Prasad and K. Suguna, “Role of water molecules in the structure and function of aspartic proteinases,” Acta Crystallogr. D Biol. Crystallogr., vol. 58, no. Pt 2, pp. 250–259, Feb. 2002.

[15] B. Stec, B V L, Y. Zhang, and A. Godzik, “Defining a protein: mining the protein structure database,” Acta Crystallographica Section A Foundations of Crystallography, vol. 64, no. a1. pp. C627–C628, 2008.

List of Patents Filed:

1. Method and Apparatus for Object based Biological Information, Manipulation and Management, June 2004, **Prasad V.L.S., Burra***. **(PAN:US:10/873,923)(Patent filed)**

2. Method of identifying /designing and/or modifying species, June 2004, **Prasad V.L.S., Burra***. **(PAN:US:10/579,171)(Patent filed)**

Dr. D.S. Rao

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Current Research Interests: Currently, Dr. D.S.Rao's research is focused on three broad areas.

(1) Noise Prediction and Assessment.
(2) Noise Induced Hearing Loss.
(3) Noise Mapping and GPS.

Biographical Information:

Dr. D.S.Rao, PhD, joined as an Associate Professor in the department of Computer Science and Engineering at Koneru Lakshmaiah Education Foundation (KLH Deemed to be University) at Hyderabad, India on July 02, 2018. He received his Ph.D. from National Institute of Technology, Rourkela (Soft Computing Techniques) and M.Tech (Computer Science &Engineering) from JNTU Hyderabad, India in 2018 and 2012, respectively. He has more than twelve years of professional experience in information systems, security policies and technologies. His research interests include noise prediction, frequency analysis, noise mapping, development of soft computing models, computer forensics, block chain technology and GPS. Dr. D.S. Rao has published numerous articles in refereed international journals and conference proceedings including SAGE, NCEJ, Inderscience, Elsevier, Springer, IEEE and JUOEH. He is an associate member of INCE USA and is serving as associate editor, editorial board member, reviewer of several journals of international repute.

Selected Publications:

1. **Rao DS,** Tripathy DP. A Genetic Algorithm approach for optimization of machinery noise calculations. Noise & Vibration Worldwide. 2019April1. 50(4): 112-123.**(Scopus)**
2. **Rao DS,** Tripathy DP. Application of ANFIS for machinery noise prediction in a bauxite mine. Noise Control Engineering Journal. Noise Control Engineering Journal. 2018March 1;66(2):90-104.**(SCI)**
3. **Rao DS**, Tripathy DP. Noise mapping of a bauxite mine using measured noise and GPS data. Disaster Advances. 2017 November 1; 10(11):13-20.**(Scopus)**
4. **Rao DS**, Tripathy DP. Optimization of machinery noise using Differential Evolution algorithm. International Journal of Mining and Mineral Engineering. 2017; 8(4):294-309. (**Scopus)**
5. **Rao DS**, Tripathy DP. Occupation noise induced hearing loss of workers in a bauxite mine in India. Noise Control Engineering Journal. 2017 Jun 1;65(3):224-33.**(SCI)**
6. Tripathy DP, **Rao DS**. Noise mapping of a highly mechanised coal mine using measured noise and GPS data. International Journal of Earth Sciences and Engineering. 2017 June; 10(3): 659-665. (**Scopus)**
7. **Rao DS**, Tripathy DP. Frequency analysis of heavy earth moving machineries in a highly mechanised bauxite mine. International Journal of Contemporary Research and Review. 2016; 7(12):37-43.
8. Tripathy DP, **Rao DS**. Noise measurement in a mechanized opencast bauxite mine: A case study. Noise & Vibration Worldwide. 2015 Dec 1;46(11):9-19. **(Scopus)**

International Conferences

9. **Rao DS,** Tripathy DP. A comparative study of Differential Evolutionary and Genetic Algorithm on optimization of opencast machinery noise. Noise Conference 2019. San Diego. 2019. **(Accepted)**
10. Tripathy DP, **Rao DS**. Assessment of noise induced hearing loss (NIHL) of mine workers in a bauxite mine using fuzzy logic. INTER-NOISE and NOISE-CON Congress and Conference Proceedings, InterNoise15, San Francisco, CA. 2015 August 9-12; 91-100
11. **Rao DS,** Tripathy DP.Optimization of machinery noise using Genetic Algorithm.Noise Conference 2017. Michigan. 2017 June 12; 527-537.

Articles under review

1. **Rao DS**, Tripathy DP. NIHL of workers in an Indian bauxite mine: A case report. Journal of University of Occupational and Environmental Health.
2. **Rao DS,** Tripathy DP. Prediction of NIHL using Adaptive Neuro Fuzzy Inference System. SCIENCE CHINA Information Sciences.
3. **Rao DS,** Tripathy DP. Prediction of NIHL using Neural networks. Noise & Vibration Worldwide.
4. **Rao DS,** Tripathy DP. Optimization of machinery noise using Particle Swarm Optimization algorithm. Computational Intelligence and Neuroscience.
5. **Rao DS,** Tripathy DP. A comparative study on DE, GA and PSO for prediction of machinery noise. International Journal of Soft Computing.

Dr. Prasad Enagandula

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Current Research Interests: Currently, Dr. Prasad's research is focused on three broad areas.

(1) Theory of Matrices and their Applications in Engineering, Science and Technology
(2) Mathematical Modeling
(3) Mathematical Software's ,Social Media Technology and their role in Mathematics Education to enhance the conceptual understanding of Mathematics

Biographical Information:

Dr.Prasad obtained his B.Sc degree in Mathematics, Statistics and Computer Science from Kakatiya University, Telangana India in 2005 and M.Sc degree in Mathematics from University of Hyderabad, India in 2007. After that, he worked in KITE professional Engineering college, Hyderabad from 2007-10 as Asst Professor in Mathematics. Later, he moved to Global Inst of Engineering and Technology (GIET), Hyderabad from 2010-12 as Asst Professor in Mathematics. Then he joined in Vignana Bharathi Institute of Technology (VBIT), Hyderabad from 2012-2019 Assoc Professors in Mathematics. He obtained his PhD degree in Mathematics under the guidance of Prof. A Ramakrishna Prasad from Jawaharlal Nehru Technological University Hyderabad (JNTUH) India in 2018. In 2019, he joined as Assistant Professor in Department of Mathematics, K L University.

Selected Publications:

1. Prasad Enagandula (2019)-"Vectors of Identity matrix are the only Solution for a Special Linear System of Equations and Linear Programming Problems" is accepted International Journal of Applied Engineering Research (IJAER) (ISSN: 0973-4562), SCOPUS,SJR(2010-17) UGC Approved Journal (Journal No. - 64529)
2. Prasad Enagandula, Dr A Ramakrishna Prasad(2016), "Introducing Google Drive and Its Applications in Teaching and Learning of Mathematics", Open Journal of Applied & Theoretical Mathematics (OJATM) Vol. 2, No. 4, December 2016, pp. 419~430 ISSN: 2455-7102
3. Prasad Enagandula, Dr A Ramakrishna Prasad (2015) The Role of Social Media in Teaching, Learning of Mathematics, International Journal of Applied Engineering Research (IJAER)(ISSN: 0973-4562),SCOPUS,SJR, UGC Approved Journal (Journal No. - 64529)
4. Prasad Enagandula, Dr A Ramakrishna Prasad(2013) Increase Affordability and Accessibility of Education in India , International Journal of Research and Development(ISSN: 2279-073x)
5. Prasad Enagandula, Dr A Ramakrishna Prasad(2013) Social Networks and Online Communities in Higher Education, International Journal of Scientific & Engineering Research Volume 4, Issue 1, January-2013 (ISSN 2229-5518)
6. Prasad Enagandula, Dr A Ramakrishna Prasad(2012) Social Media In Teaching and Learning, International Journal of Computer Science and Communication Engineering, IJCSCE /SI.8.12 /111 (ISSN 2319-7080)

Dr. Gautam Kumar, Associate Professor

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Current Research Interests: Currently, Dr. Gautam Kumar research is focused on three broad areas.

(1) Cryptography and Information Security on Product Based Services: Deployment in Firmware applications service as a security requirements
(2) Security Algorithms Design and Analysis with complexity reduction using ECC, Signcryption and Noncommutative primitives Generations
(3) Theoretical Computer Science on Online and Offline applications orientated works for Internet Banking and Data Processing services.

Biographical Information:

Dr. Gautam Kumar, currently working with Dept. of Computer Science and Engineering, KL University Hyderabad (Campus) India. He received his PhD degree [2017] in Computer Science and Engineering from Jaypee University of Information Technology, Himachal Pradesh, India. He did his M.Tech [2012] from Rajasthan Technical University and received his B.E. [2005] from Rajiv Gandhi Proudyogiki Vishwavidyalaya, Madhya Pradesh. His research interests are in the field of Cryptography, Information Security, & Algorithms Design and Analysis. He is having more than 13.5 years of teaching experience at the locations of IET Alwar Rajasthan, JUIT Himachal Pradesh, and ICFAI University & Narsimha Reddy Engineering College Hyderabad. He has published more than 30 research journals and conferences papers of repute in Science Citation Indexed, Scopus, Web of Science Indexed. He is a Reviewer of (i) Security and Communication Networks, John Wiley & Sons[Indexed in Science Citation Indexed, SCOPUS], (ii) The Computer Journal, Oxford Academic [Indexed in Science Citation Indexed, SCOPUS], & many Reputes of IEEE/Springer/ACM International Conferences.

Selected Publications:

1. **Gautam Kumar** and Hemraj Saini, "Novel Noncommutative Cryptography Scheme using Extra Special Group," Security and Communication Networks, John Wiley & Sons, Vol. 2017, Issue 5, pp. 1-21, January 2017. DOI: 10.1155/2017/9036382.
2. **Gautam Kumar** and Hemraj Saini "Secure and Robust Telemedicine using ECC on Radix-8 with Formal Verification," International Journal of Information Security and Privacy, IGI Global Publishing, Vol. 12, Issue 1, pp. 13-28, 2018.
3. **Gautam Kumar** and Hemraj Saini, "Monomials Cryptographic Approach and Advanced Scenario for Length Based Attacks" International Journal of Advanced Studies in Computer Science and Engineering, IET, Vol. 6, Issue 9, 2017.
4. **Gautam Kumar** and Hemraj Saini "Effective Signcryption Approach for Secure Convention for Multilayer Consensus using ECC," International Journal of Security and its Applications, Science & Engineering Research Support Society, Vol. 10, No. 7, pp. 287-306, 2016.
5. **Gautam Kumar** and Hemraj Saini "Secure and Efficient ECC: Radix-16 Scalar Multiplication without Pre-Computation," International Conference on Big Data and Advanced Wireless Technologies, ACM, American University in Bulgaria, 10 November 2016. DOI: 10.1145/3010089.3010105 [Online Available]
6. **Gautam Kumar**, Hemraj Saini and U.M. Fernandes Dimlo, "Deployment Consideration on Secure Computation for Radix-16 Scalar Multiplication" Communications in Computer and Information Science, Springer Nature, Vol. 906, pp. 206-216, 2018.

Assistant Professor Gengan Saravanan

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Current Research Interests: Currently, Dr. G. Saravanan research is focused on following broad areas.

(1) Electrochemical preparation of Graphene supported metal/alloy/intermetallics nanoparticles (shape and size effect) functional electrodes for energy conversion and storage.
(2) 2D/3D Nucleation and Growth model for nanoparticles application to electrocatalysis.
(3) Preparation of AAO membrane and its application towards energy conversion and storage application.

Biographical Information:

Dr. G. Saravanan obtained his B. Sc degree in Chemistry from University of Madras, Tamil Nadu, India in 1998 and M. Sc degree in Chemistry from University of Madras, India in 2000. He obtained PhD in Central Electro Chemical Research Institute-CSIR, Karaikudi with CSIR-SRF fellowship, Government of India, he also qualified SET in chemical sciences. He did post doctoral fellowship in Yonsei University, Seoul, South Korea under the guidance of Prof. Dongil Lee on Graphene supported metal nanoparticles for electrooxidation of Glucose. After that, he worked as assistant professor in NIT-Trichy, Central University of Tamil Nadu, Thiruvarur, and Ramakrishna Mission Vivekananda College, Mylapore, Chennai. He authored two books on Electrodeposition of metal using RTIL and Inorganic Chemistry Laboratory Manual. In 2018, he joined as Assistant Professor in department of Chemistry, K L University.

Selected Publications:

1. **G. Saravanan**, S. Mohan, "Corrosion behavior of Cr electrodeposited from Cr(VI) and Cr(III)-baths using direct (DCD) and pulse electrodeposition (PED) techniques", **Corrosion. Science**. 51 (2009) 197-202. **(Impact Factor: 6.355)**.
2. **Gengan Saravanan** and Subramanian Mohan, "Structure, Composition and Corrosion Resistance Studies of Co–Cr Alloy Electrodeposited From Deep Eutectic Solvent (DES). **J. Alloys and Compounds**. 522 (2012)162-166. **(Impact Factor: 4.18)**.
3. **Gengan Saravanan** and S. Mohan "Greener synthesis and well-dispersive Pt-nanoparticles with Excellent Electrocatalytic Property on reduced graphene oxide". **Applied Surface Science** 386 (2016) 96–102). **(Impact Factor: 5.2)**
4. Subramanian Mohan, **Gengan Saravanan** Andreas Bund, "Role of magnetic forces in pulse electrochemical deposition of Ni-nanoAl_2O_3 composites**" Electrochimica Acta** 64 (2012) 94-99. **(Impact Factor: 5.4)**
5. **G. Saravanan** and S. Mohan "Nucleation of copper on mild steel in copper chloride ($CuCl_2 \cdot 2H_2O$)-1-ethyl-3- methylimidazolium chloride [EMIM]Cl ‾ ethylene glycol (EG) ionic liquid" 37, (2013) 2564-2567. **New Journal of Chemistry (Impact Factor: 3.3)**
6. **Gengan Saravanan "**Noble metal nanoparticles for electrochemical oxidation and sensor of Glucose" **International Journal of Nnaomaterials and nanostructure** , 4(2),(2018),1-5

Goutham Makkena

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Current Research Interests: Currently, Dr. Goutham Makkena's research is focused on two broad areas.

(1) Pulse processing circuits for analog front ends.
(2) Time-domain synthesis of analog filters.

Biographical Information:

Dr. Goutham Makkena obtained his B.Tech degree in Electronics and Instrumentation Engineering, from Pydah College of Engineering and Technology, affiliated to JNTU Hyderabad in 2007. After that he worked as a software engineer in Infosys Technologies Pvt. Ltd, Pune for 2 years. Then he obtained his M.E in Microelectronics from BITS Pilani in 2011. During his Master's, he worked as an Intern Engineer at Microsemi SoC division, Hyderabad. After that, he worked towards his Doctoral degree at BITS Hyderabad and obtained it in 2018.

Selected Publications:

1. Makkena, G. & Srinivas, M.B. Circuits Syst Signal Process (2018) 37: 965. https://doi.org/10.1007/s00034-017-0591-9
2. Makkena, G. & Srinivas, M.B. Circuits Syst Signal Process (2019). https://doi.org/10.1007/s00034-019-01105-1

Dr. M. P .Actlin Jeeva

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Current Research Interests: Currently, Dr. M. P. Actlin Jeeva's research is focused on the following two broad areas.

(1) Improving the quality and intelligibility of far-end and near-end speech
(2) DNN and Machine learning approaches for speech signal processing

Biographical Information:

Dr. M. P. Actlin Jeeva obtained her B.E. degree in ECE from Anna University, Chennai, India in 2010 and M.E. degree in Communication Systems from Anna University, Chennai, India in 2013. After that, She obtained her PhD degree in Information and Communication Engineering (Speech signal Processing) from Anna university, Chennai, India. Later she worked as an Assistant Professor in VV college of Engineering, Tamilnadu, India from August 2017 to May 2019. In June 2019, she joined as Assistant an Professor in the department of ECE, K L University, Hyderabad.

Selected Publications:

1. M. P. Actlin Jeeva, T. Nagarajan, P. Vijayalakshmi, "*DCT derived spectrum-based speech enhancement algorithm using temporal-domain multiband filtering*", IET Signal Processing, vol. 10 (8), pp. 965-980, October 2016, DOI: 10.1049/iet-spr.2016.0125, October 2016.
2. B. Ramani, M. P. Actlin Jeeva, P. Vijayalakshmi, T.Nagarajan, "*A multi-level GMM-based cross-lingual voice vonversion using language-specific mixture weights for polyglot synthesis*", Circuits, Systems and Signal Processing, vol. 35, pp. 1283-1311, April 2016.
3. P. Vijayalakshmi, B. Ramani, M. P. Actlin Jeeva, T.Nagarajan, "*A multilingual to polyglot speech synthesizer for Indian languages using a voice converted polyglot speech corpus*", Circuits, Systems and Signal Processing.
4. M. P. Actlin Jeeva, T. Nagarajan, P. Vijayalakshmi, "*Noise-adaptive speech-specific dynamic filter structure-based sub-bands for simultaneous improvement of quality and intelligibility of far-end speech*", IET signal processing. (First revision).
5. S. Stennifer Jebaruby, Nirmal Singh, M. P. Actlin Jeeva, "*Weighted energy reallocation for near-end speech enhancement",* IEEE fifth international conference on Science, Engineering, Technology and Mathematics, pp. 1-5, April 2019.
6. Actlin Jeeva M. P, Nagarajan T. , Vijayalakshmi P. , "*Formant-filters based multi-band speech enhancement algorithm for intelligibility improvement* ", National Conference on Communications (NCC-2016), IIT Guwahati, pp. 1-5, March 2016.
7. M. P. Actlin Jeeva, T. Nagarajan, P. Vijayalakshmi, "*Temporal Domain Filtering Approach for Multiband Speech Enhancement*", International Conference on Microwave, Optical and Communication Engineering (ICMOCE-2015), pp. 385-388, December 18-20, 2015, IIT Bhubaneswar.
8. B. Ramani, M.P. ActlinJeeva, P. Vijayalakshmi, T. Nagarajan, *"Cross-Lingual Voice Conversion-Based Polyglot Speech Synthesizer for Indian Languages",* in Proc. of *INTERSPEECH, March 2014, Singapore, pp. 775 - 779.*
9. Ramani B, Actlin Jeeva M P, Vijayalakshmi P, Nagarajan T, "*Voice conversion-based Multilingual to Polyglot Speech Synthesizer for Indian languages*", in Proc. of IEEE, TENCON 2013, Xi'an, China, pp. 1 – 4.

Professor Lakshmana Swamy. B

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Current Research Interests: Dr. Lakshmana Swamy. B research is focused on two broad areas.

(1) Thermal Engineering.
(2) Heat transfer.

Biographical Information:

Dr. Lakshmana Swamy. B obtained his AMIMech.E degree in Mechanical Engineering, from Institute of Mechanical Engineers (India) in 2000 and M.Tech degree in Refrigeration & Air Conditioning from JNTU, Ananthapur in 2006. He obtained his Ph.D degree from JNTU, Hyderabad in Internal Combustion Engines under the guidance of Prof. B Sudheer Prem Kumar and Prof. K Vijay Kumar Reddy. He worked in Aurora Group of Institutions, Hyderabad (Telangana), from 2001-19 as a Professor. In 2019, he has joined as a Professor in Department of Mechanical Engineering, K L University, Hyderabad.

Selected Publications:

1. B Lakshmana Swamy, Dr. K Vijaya Kumar Reddy, Dr. B Sudheer Prem Kumar, “Engine Emissions at Various Cetane Numbers with Exhaust Gas Recirculation”, IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE), e-ISSN: 2278-1684,p-ISSN: 2320-334X, Volume 8, Issue 6 (Sep. - Oct. 2013), PP 09-14.
2. B Lakshmana Swamy, Dr. B Sudheer Prem Kumar,Dr. K Vijaya Kumar Reddy, “Single Cylinder 4 Stroke VCR Diesel Engine Performance And Analysis At Various Blends Of Fuels Under Various Cooling Rates”, International Journal Of Innovative Technology, ISSN: 2278 – 0211 August, 2013 Vol 2 Issue 8.
3. B Lakshmana Swamy, Dr. B Sudheer Prem Kumar, Dr. K Vijaya Kumar Reddy, “Reduction of Diesel Engine Emissions and Its Analysis by Using Exhaust Gas Recirculation at Various Cooling Rates”, ISO 9001:2008 Certified, International Journal of Engineering and Innovative Technology (IJEIT), Volume 3, Issue 2, August 2013.
4. B Lakshmana Swamy, Dr. K Vijaya Kumar Reddy, Dr. B Sudheer Prem Kumar, " performance and analysis of diesel engine at various injection timings under various cooling rates during shorter injection period", submitted and accepted by International Journal of Current Engineering and Technology(IJCET),Volume 4,Issue3,June 2014,PP 1649-1654.
5. Dr. B. Lakshmana Swamy, P.Naveen Reddy, Devesh & Adithya “Analysis of Power Generation from Engine Emissions by Using See beck Generator (SG)” submitted and accepted by Journal of Advanced Research in Dynamical and Control Systems Vol. 9. Sp– 14 / 2017.

Dr. K.V.S.N.RAMA RAO

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Current Research Interests:

Currently, Dr K V S N Rama Rao research focused on three broad areas.

(1) Cyber Security – Intrusion detection
(2) Machine learning applied to societal applications
(3) Bioacoustics

Biographical Information:

Dr. KVSN Rama Rao, PhD, is working as Professor in the department of Computer Science and Engineering at Koneru Lakshmaiah Education Foundation (KLH Deemed to be University) at Hyderabad, since 2017. She received her Ph.D. from Berhampur University (Modeling and Designing Intrusion Detection Systems) and M.Tech (Network Security) from JNTUH, Hyderabad, India. Dr Rao has international research experience at world ranked University of Tasmania, Australia for pursuing research in the area of Bioacoustics (analysis of biological sounds by application of machine learning techniques). Dr. Rao has more than Seventeen years of academic experience and three years industrial experience at MNC in its training division. His research interests include cyber security, stream data processing and block chain technology. Dr. Rao has published numerous articles in various refereed international journals and conference. He is guiding eight Ph.D scholars in cyber security and machine learning domains.

Selected Publications:

- KVSN Rama Rao, Garg, S., & Montgomery, J., Micheal Charlston, "Bioacoustic Data Analysis — Taxonomy, Survey and Open Challenges", Communicated and Under review at IEEE Access.

- KVSN Rama Rao, Garg, S., & Montgomery, J. (2018, December). Investigation of Unsupervised Models for Biodiversity Assessment. In Australasian Joint Conference on Artificial Intelligence (pp. 160-171). Springer, Cham.

- P.NagaJyothi, Rajya Lakshmi, KVSN RamaRao "Experimental Analysis of Medicare data using Hierarchical Grouping Mechanism", International Journal of Intelligent Unmanned Systems(Accepted),Emerald Publishers.(Scopus)

- Rao, K. R., Kannan, S., Prasad, M. A., & Saravanan, R. A. "Technical Challenges and Perspectives In Batch And Stream Big Data Machine Learning", *ICAIC*, 324.2018 (Scopus)

- P.NagaJyothi, Rajya Lakshmi, KVSN RamaRao " Performance on Fraud Detection in Medical Claims of Healthcare Data ", International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8, Issue-7 May 2019. (Scopus)

- P.Venkata Raju, KVSN Ramarao, G Syam Prasad , “Securing Android Applications from Known Vulnerabilities through Penetration Testing” , International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-8 Issue-4, April 2019(Scopus)

- KVSN Rama Rao, Battula, S. K., & Krishna, T. L. S. R. (2017). A smart heuristic scanner for an intrusion detection system using two-stage machine learning techniques. International Journal of Advanced Intelligence Paradigms, 9(5-6), 519-529.(Inderscience)

- Published Paper titled “Effect of Big Data Characteristics on Security-Leveraging existing security mechanisms for Protection“in ARPN Journal of Engineering and Applied Sciences, Vol. 10,No.5,March 2015(SCOPUS Indexed)

- Published a paper titled “Visualization-Techniques, Methods and Tools ” in CSI Communications, VolNo.38,IssueNo.8Pgs:43-45 ,Nov 2014 (CSI)

- Published a paper titled “Automatic generation of domain specific customized signatures for an enterprise intrusion detection system based on sentimental analysis ” in 2nd International Conference on Information systems Design and Intelligent Applications(INDIA 2015) at University of kalyani,Westbengal. INDIA 2015 proceedings are published by AISC – Springer,Vol.339.(Scopus Indexed)

- Published a paper titled “Strong Authentication Using Dynamic Hashing and Steganography” in 2nd International Conference on Computing,Communication and Automation(ICCCA 2015)Noida,May 2015,proceedings by IEEE,ISBN : 978-1-4799-8889-1,Pages 735 – 738 (Scopus Indexed)

- Published a paper titled “A Service Oriented Modeling and Analysis for building Intrusion Detection Systems” in 4th International Conference on Recent Trends in Computing , Communication and Information Technologies (ObCom 2011) at VIT University,Vellore. ObCom 2011 proceedings are published by Springer (LNCS) in Communications in Computer and Information Science (CCIS) Series and will be available in the Springer Digital Library,P.V. Krishna, M.R. Babu, and E. Ariwa (Eds.): ObCom 2011, Part I, CCIS 269, pp. 661–670, 2012., © Springer-Verlag Berlin Heidelberg 2012(Scopus Indexed)

  Published a paper titled “Implementation Approach Of a SOA Based Intrusion Detection System” in World Congress on Information and Communication Technologies (WICT 2011). WICT 2011 proceedings published by IEEE,978-1-4673-0125-1 c_2011 IEEE,Pgs 1000-1005.(Scopus Indexed)

Associate Professor Moon Banerjee

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Current Research Interests: Currently, Dr. Moon Banerjee research is focused on two broad areas.

(1) Three dimensional experimental stress analysis in photoelastic bench.
(2) Material characterization of composite materials with SEM, TEM and XRD.

Biographical Information:

Dr. Moon Banerjee obtained his B.E degree in Mechanical, from Pt. Ravi Shankar Shukla University, Raipur (Chhattisgarh), India in 2006 and M.Tech degree in Engineering Materials from Maulana Azad National Institute of Technology, Bhopal (M.P), India in 2009. After that, he worked in Chhattisgarh Institute of Technology, Rajnandgaon (C.G), from 2009-10 as an lecturer. Later, he moved to National Institute of Technology, Raipur (C.G) and obtained his full time PhD degree in Design under the guidance of Prof. Subhashis Sanyal and Associate Prof. Dr. Nitin Kumar Jain. In 2019, he joined as Associate Professor in department of Mechanical Engineering, K L University, Hyderabad.

Selected Publications:

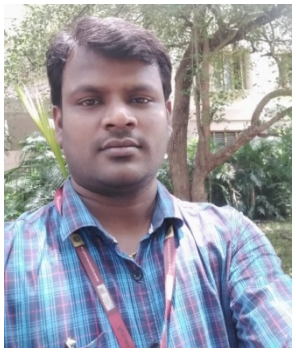
1. Experimental and numerical analysis of extrusion process for AA 7178 alloy with varying process parameters; Materials Today Proceedings; Elsevier, **Moon Banerjee**, Tikendra Nath Verma, Prerana Nashine, **Scopus indexed**, ISSn No:- 2214-7853, Vol:- 5, Isssue:-2, Part:-2, 2018, Pages 6839-6847.

2. Hot compression test of AA 2014 aluminium alloy with microsturucture analysis processing maps; Materials Today Proceedings; Elsevier, Tikendra Nath Verma, **Moon Banerjee**, Prerana Nashine;, **Scopus indexed**. , ISSn No:- 2214-7853, Vol:-5, 2017.

3. Interlaminar Shear Stress Distribution for Laminated Composite Plate with a Center Circular Hole under Transverse Loading with Different Boundary Conditions- **Indian Journal of Engineering: - An International Journal, Scopus indexed,** Authors Name: Moon Banerjee[1], N. K. Jain[2] and S. Sanyal[3], Published: - 01/07/2016, ISSN No: - 2319-7757.

4. Three dimensional parametric analyses on effect of fibre orientation for stress concentration factor in fibrous composite cantilever plate with central circular hole under transverse loading- **International Islamic university, Malaysia, Engineering Journal, Emerging Source Citation indexed,** Moon Banerjee[1], N. K. Jain[2] and S. Sanyal[3], Vol.13, No-2, 2012. ISSN NO - 2289-7860.

5. Parametric analyses on effect of fibre orientation for stress concentration factor in two edges fixed and two edges simply supported fibrous composite plate with central circular hole under transverse loading- **International Journal of Mechanical Engineering, Serial Journals, Authors Name: -** Moon Banerjee[1], N. K. Jain[2] and S. Sanyal[3], Vol 5, No- 2. July-December 2012. ISSN : 0974-5823.



Prof. Dr. Sankararao Mutyala

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Related Links:

Current Research Interests: Currently, Dr. S. Mutyala's research is focused on following thrust areas.

- Synthesis, characterization of nanostructured carbon materials (Carbon Nanotubes, Graphene, Doping, composites of Graphene …..etc) conducting polymers, structural nanocomposites (polymer & metal matrix) for Biosensors and Fuel Cell applications.

- Synthesis of Heteroatom Doped Graphene/Carbon and Metal Chalcogenides catalyst materials are synthesized by Hydrothermal, Sol-Gel, Chemical vapour deposition and High temperature colloidal methods for development of simple, low cost and reliable sensor platforms.

- Preparation of electro-catalyst, making of catalyst ink, textural modification of the catalyst layer to improve electro-catalytic activity, testing of the electro-catalysts by Rotating Disk Electrode (RDE) and interpretation of various activity related parameters for catalysis and energy generation applications.

Biographical Information:

Dr. Sankararao Mutyala obtained his B.Sc degree in Chemistry, Physics and Mathematics from Andhra University, A.P, India in 2007 and M.Sc degree in Organic Chemistry from Andhra University, India in 2009. After that, he Qualified in National Eligibility Test (CSIR-NET) in June-2010 with all Indian Rank 158, followed by obtained His Ph.D from CSIR-Central Electro Chemical Research Institute under guidance of Dr. J. Mathiyarasu, Principal Scientist. Later, he worked as a SERB-Pos.Doc fellow in Indian Association for the Cultivation of Science (IACS) Kolkata, West Bengal. In May 2018, he joined as Assistant Professor in department of Chemistry, K L University.

Selected Publications:

[1] **Sankararao M et al**, Thermodynamically Controlled Reactions for Nearly Monodisperse Substituted Tetrahedrite Nanocrystals, J. Phys. Chem. Lett., 9 (**2018)** 1907–1912.

[2] **Sankararao M** et al,,, Seeded Phosphidation of Nickel on Iron Oxides: The OER Pre-Electrocatalyst with Electrochemically Inactive Core and Active Shell, ***ACS energy Letters*** 3 (2018) 141-148**.** (***Listed among most downloaded in Dec 2017 and Jan 2018***),

[3] **Sankararao**. **M**, Suresh. C, Mathiyarasu. J Tuning the Oxygen Reduction Reactivity of interconnected porous carbon by incorporation of phosphorus and activity enhancement through blending with 2D metal dichalcogenides materials, ***International Journal of Hydrogen Energy*****,** (2017) 1-8.

[4] Sankararao. **M**, Mathiyarasu. J, Reagent -less nonenzymatic hydrogen peroxide sensor using electrochemically reduced graphene oxide modified glassy carbon electrode, **Materials Science and Engineering C,** 69 (2016) 398-406.

[5] Sankararao. **M**, Mathiyarasu. J, Preparation of Graphene nanoflakes and its application for oxidation of hydrazine, ***Sensors and Actuators B chemical*****,** 210 (2015) 692-699.

Dr. Venkata Rajesh Yella

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Related Links:

Current Research Interests: Dr. Yella's research focuses on applying statistical computation to molecular biology problems: in specific, interested in regulatory genomics and broad areas of the research are.

(1) Evaluation of complexity of promoters using DNA structural features related to stability, flexibility, and shape.

(2) Linking DNA structure to developmental biology through investigation of transcription factor- DNA recognition.

(3) Delving into cis-regulatory code of genome with DNA structural motifs such as G-quadruplexes, i-motifs, and triplex DNA.

Biographical Information:

Dr. V R Yella obtained his B.Sc degree in Biotechnology, Botany and Chemistry from Andhra University, A.P, India in 2005 and M.Sc degree in Biochemistry from Andhra University, India in 2007. After that, he worked as a lecturer in Biochemistry for S.K.B.R College, Amalapuram from 2007-08. Later, he moved to Indian Institute of Science, in Bangalore, India and obtained his Ph.D. degree in Computational Biology under the guidance of Prof. Manju Bansal. In 2016, he joined as Assistant Professor in the department of biotechnology, K L University. Currently, his research work is supported by DST-SERB through early career research award.

Selected Publications:

[1] V. R. Yella, D. Bhimsaria, D. Ghoshdastidar, J. A. Rodríguez-Martínez, A. Z. Ansari, and M. Bansal, "Flexibility and structure of flanking DNA impact transcription factor affinity for its core motif," *Nucleic acids research,* vol. 46, no. 22, pp. 11883-11897, 2018.

[2] V. R. Yella, A. Kumar, and M. Bansal, "Identification of putative promoters in 48 eukaryotic genomes on the basis of DNA free energy," *Scientific reports,* vol. 8, no. 1, p. 4520, 2018.

[3] V. R. Yella and M. Bansal, "DNA structural features of eukaryotic TATA-containing and TATA-less promoters," *FEBS open bio,* vol. 7, no. 3, pp. 324-334, 2017.

[4] V. R. Yella and M. Bansal, "DNA structural features and architecture of promoter regions play a role in gene responsiveness of S. cerevisiae," *Journal of bioinformatics and computational biology,* vol. 11, no. 06, p. 1343001, 2013.

[5] M. Bansal, A. Kumar, and V. R. Yella, "Role of DNA sequence based structural features of promoters in transcription initiation and gene expression," *Current opinion in structural biology,* vol. 25, pp. 77-85, 2014.

Dr. Pradeep Kumar Brahman

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Related Links:

Current Research Interests:

- Development and fabrication of biosensing tools for the diagnosis of various disease markers such as prostate cancer, vitamin D deficiency etc.
- Development of high performance electrochemical sensors for environmental applications.
- Synthesis and characterization of efficient nanocomposite materials based on fullerene, CNTs etc. for energy applications.

Biographical Information:

Dr. Pradeep Kumar Brahman obtained his B.Sc. (Chemistry, Botany and Zoology), M.Sc. (Analytical Chemistry) and Ph.D. (Electrochemistry) from Dr. Harisingh Gour Central University, Sagar, Madhya Pradesh, India in 2006, 2008 and 2013 respectively. In 2013, he joined as Assistant Professor in Department of Chemistry, K L University.

Selected Publications:

1. K. R. Reddy, P. K. Brahman, and L. Suresh, "Fabrication of high performance disposable screen printed electrochemical sensor for ciprofloxacin sensing in biological samples," *Measurement, vol.* 127, pp. 175-186, 2018.
2. P. K. Brahman, L. Suresh, K. R. Reddy and J. S. Bondili, "Development of an electrochemical immunosensor based on gold nanoparticles incorporated chitosan biopolymer nanocomposite film for the detection of prostate cancer using PSA as biomarker," *Enzyme Microb. Technol.,* vol. 112, pp. 43-51, 2018.
3. P. K. Brahman, L. Suresh, K. R. Reddy and J. S. Bondili, "An electrochemical sensing platform for trace recognition and detection of an anti-prostate cancer drug flutamide in biological samples, *RSC Advances* vol. 7 pp. 37898 –37907, 2017.
4. P. K. Brahman, L. Suresh, V. Lokesh, and S. Nizamuddin, "Fabrication of highly sensitive and selective nanocomposite film based on CuNPs/Fullerene-C60-MWCNTs: An electrochemical nanosensor for trace recognition of paracetamol," *Anal. Chim. Acta***,** vol. 917, pp. 107-116, 2016.
5. P. K.Brahman, R. A. Dar, and K. S. Pitre, "Conducting polymer film based electrochemical sensor for the determination of amoxicillin in micellar media," *Sensor Actuat. B: Chem. Vol.* 176, pp. 307-314, 2013.
6. P. K. Brahman, R. A. Dar, and K. S. Pitre, "DNA-functionalized electrochemical biosensor for detection of vitamin B_1 using electrochemically treated multiwalled carbon nanotube paste electrode by voltammetric methods," *Sensor Actuat. B: Chem. Vol.* 177, pp. 807-812, 2013.
7. P. K. Brahman, N. Pandey, and S. N. Topkaya, "Fullerene-C_{60}-MWCNT composite film based ultrasensitive electrochemical sensing platform for the trace analysis of pyruvic acid in biological fluids," *Talanta,* vol. 134, pp. 554-559, 2015.
8. P. K. Brahman, R. A. Dar, S. Tiwari, and K. S. Pitre, "Voltammetric determination of anticancer drug flutamide in surfactant media at polymer film modified carbon paste electrode," *Colloids and Surfaces A: Physicochem. Eng. Aspects,* vol. 396, pp. 8-15, 2012.

Professor Jayakumar Singh Bondili

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Related Links:

Current Research Interests: Currently, Dr. B Jayakumar Singh's research is focused on three broad areas.

(1) High-throughput virtual screening of natural molecules with e-pharmacophore and molecular dynamic simulations for novel drugs.
(2) Molecular characterization of Lipases and ester hydrolases involved in lipid metabolism.
(3) Screening and selection of microbial consortia of fungal and bacterial co-cultures targeting increased biodegradation of polycyclic aromatic hydrocarbons.

Biographical Information:

Dr. JK Singh obtained his B.Sc degree in Microbiology, Biochemistry and Aquaculture from Nagarjuna University, A.P, India in 1999 and M.Sc degree in Microbiology from Barkatullah University, India in 2001. After that, he worked in Shantha Biotechnics Pvt Ltd, Hyderabad from 2001-04 on recombinant expression of Erythropoietin in CHO cells. Later, he moved to University of Natural Resources and Applied life sciences, in Vienna, Austria and obtained his PhD degree in Glycobiology under the guidance of Prof. Friedrich Altmann. In 2007, he joined as Assistant Professor in department of biotechnology, K L University.

Selected Publications:

[1]
[1] G. K. Veeramachaneni, K. K. Raj, L. M. Chalasani, J. S. Bondili, and V. R. Talluri, "High-throughput virtual screening with e-pharmacophore and molecular simulations study in the designing of pancreatic lipase inhibitors," *Drug Des Devel Ther,* vol. 9, pp. 4397-412, 2015.
[2] G. K. Veeramachaneni, K. K. Raj, L. M. Chalasani, S. K. Annamraju, B. Js, and V. R. Talluri, "Shape based virtual screening and molecular docking towards designing novel pancreatic lipase inhibitors," *Bioinformation,* vol. 11, pp. 535-42, 2015.
[3] S. R. Eda, G. K. Veeramachaneni, J. S. Bondili, and R. Jinka, "Screening of caspase-3 inhibitors from natural molecule database using e-pharmacophore and docking studies," *Bioinformation,* vol. 15, pp. 240-245, 2019.
[4] N. K. M, B. S. C. T. V, K. V. G, C. S. B, S. Guntupalli, and S. B. J, "Molecular characterization of human ABHD2 as TAG lipase and ester hydrolase," *Biosci Rep,* vol. 36, Aug 2016.
[5] N. K. M, B. S. C. T. V, C. S. B, and S. B. J, "Saccharomyces cerevisiae lipid droplet associated enzyme Ypr147cp shows both TAG lipase and ester hydrolase activities," *J Gen Appl Microbiol,* vol. 64, pp. 76-83, May 21 2018.
[6] S. Guntupalli, L. M. Chalasani, K. Jyothi, C. V. Rao, and J. S. Bondili, "Enhanced PAH biodegradation by consortia developed with biofilm, biosurfactant producing microorganisms," *Asian Journal of Microbiology, Biotechnology and Environmental Sciences,* vol. 18, pp. 931-940, 2016.
[7] S. Guntupalli, V. B. S. C. Thunuguntla, L. M. Chalasani, C. V. Rao, and J. S. Bondili, "Degradation and Metabolite Profiling of Benz (a) Anthracene, Dibenz (a, h) Anthracene and Indeno [1, 2, 3-cd] Pyrene by Aspergillus terricola," *Polycyclic Aromatic Compounds,* pp. 1-9, 2017.[2-7]

Asst. Professor, Marepally Bhanu Chandra

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Current Research Interests: Currently, Dr. M. Bhanu Chandra's research is focused on these broad areas.

1. Renewable energy technologies
   - Solar Cells, Solar Fuels, CO_2 reduction & capture, Fuel Cells
2. Nano-materials
   - 2D, 3D, CNT, Graphene, MOF, Nanofibers, Nanofoams, Nanowires
3. Plasmonics and Photonics
   - Plasmonic Solar cells, Antennas, Nano-patterning, Meta-materials.

Biographical Information:

Dr. M. Bhanu Chandra graduated from IIIT-Hyderabad with a B.Tech in ECE in 2009 and received a Gold medal in M.Tech, Nano Technology from VIT University in 2013. After that, went to pursue his Ph.D in France & Italy under the prestigious Erasmus Mundus Joint Doctoral fellowship-SINCHEM. He received two separate Ph.D. degrees one from University of Claude Bernard Lyon, France and other from University of Messina, Italy in 2017. From 2017-2018, he worked as a Scientific consultant under a private project on Tumor Treating Fields with PrimeTradeAI. In 2018, he joined as Assistant Professor in department of ECE with K L University, Hyderabad. He received many accolades, in addition to aforementioned, which include CSIR-Net JRF fellow, DST Nano fellowship, Mr. Susee Soundararajan endowment award, National Science Olympiad, and many more.

Selected Publications:

1. *Production of solar fuels using CO_2*, ***Horizons in Sustainable Industrial Chemistry and Catalysis*, Elsevier**, **Vol. 178, pp. 7-30, (2019).**
2. *Water splitting on 3D-type meso/macro porous structured photoanodes based on Ti mesh*, **Solar Energy Materials and Solar Cells, Vol. 178, pp. 98-105, (2018).**
3. *Enhanced formation of >C 1 products in the electroreduction of CO_2 by adding a carbon dioxide adsorption component to a gas diffusion layer type catalytic electrode*, **ChemSusChem, Vol. 10, pp. 4442-4446, (2017).**
4. *Role of small Cu nanoparticles in the behaviour of nanocarbon-based electrodes for the electrocatalytic reduction of CO_2*, **Journal of CO_2 Utilization**, **Vol. 21, pp. 534-542, (2017).**
5. *Electrocatalytic conversion of CO_2 to produce solar fuels in electrolyte or electrolyte-less configurations of PEC cells*, **Faraday Discussions**, **Vol. 183, pp. 125-145, (2015).**
6. *Electrocatalytic reduction of CO_2 for the production of fuels: a comparison between liquid and gas phase conditions*, **Chemical Engineering Transactions**, **Vol. 43, pp. 2281-2286, (2015).**
7. *Kinetics of silver nanoparticle growth using DMF as reductant – Effect of surfactants*, **Advanced Materials Research**, **Vol. 938, pp. 30-35, (2014).**
8. *Solvothermal Preparation of ZnO/Graphene Nanocomposites and its photocatalytic properties*, **Nanoscience and Nanotech. Letters**, **Vol. 5(3), pp. 349-354, (2013).**

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PhD Osmania University (Hyderabad India), Management Sep 2018

MBA, Bcom Osmania University (Hyderabad India),

TEACHING EXPERIENCE

KL University, Hyderabad June 2019 to till date.
Assistant Professor, MBA

ICBM SBE Business School, Hyderabad February 2018 to 31 may 2019.
Associant Professor, PGDM

St Anns College for women's, Hyderabad October 2015 to 31 Dec 2017
Associate Professor, MBA

David Memorial Institute of Management
Hyderabad Assistant Professor, MBA August 2010 to 31 August 2015

PUBLICATIONS

- Abstract of doctoral dissertation titled "**Performance of Private Equity Funds in India: A Select Study (*SCOPUS & ADBC Indexed)***" in Finance India in September 2019 (Vol XXXIII No 3) ISSN: 09703772.
- Industry-Wise Investment Pattern of Select Private Equity Funds in India- ***The Journal of Private Equity*** *Winter 2018, 22 (1) 42-51; DOI: https://doi.org/10.3905/jpe.2018.1.074*
- Profitability Analysis of Select Private Equity Funds in India- ***The Journal of Private Equity*** *Summer 2019, 22 (3) 56-63; DOI: https://doi.org/10.3905/jpe.2019.22.3.056*
- Receivable management of power distribution utilities in India "Finance India***"(SCOPUS & ADBC Indexed)*** *Working paper.*
- A Comparative study on MSME Equity IPO and Equity IPOs ***Internal journal of advance and innovation research*** volume 6, issue 1(XXXIII): January – March 2019 National Seminar (NSICVW)
- A study on banking fraud in Indian system – A special reference on Punjab national bank (PNB) fraud, India, "***International Journal of Research in Economics and Social Sciences***", ISSN (0):2249-7382.
- Performance of Select Private Equity Funds in India, "- Indian Journal of Applied Research- IJAR" ISSN- 2249555X
- A paper on Equity Analysis – A select study, "***International publication on KAAV publication",*** ISSN: 2348-4969.
- Exit Routes of Private Equity Transactions, "***International publication on KAAV publication***", ISSN: 2348-4969
- Industry wise Performance of Private Equity Funds in India, "***Paripex-Indian Journal of Research***", ISSN: 2250-1991 Nov 2016.
- Source of fund and stage wise performance of Private Equity Fund in India, "***Paripex-Indian Journal of Research***", ISSN: 2250-1991.

CONFERENCE PAPERS

International

1. Presented a paper titled, "Role of private equity and venture capital in Indian economic growth" in ***International Conference titled "Emerging trends in commerce and edg***e", at St Joseph PG College, Hyderabad.
2. Presented a paper titled, "Performance of Private Equity funds in India-A Select Study" in ***2nd international conference*** organised by IPE, Hyderabad in 2014

National

1. Attended Two ***Day National seminar on Fraudulent Financial Practices in Indian Capital Market – Issues and Concern,*** conducted by Department of Commerce, Osmania University.
2. Presented a paper a titled, "PE and VC in Indian economic growth", in ***National Seminar On FDI- As A Key Driver Of Economy: A Reality Check-Opportunities & Challenges"***, organized by RBVRR IT on March 7th 2014

PARTICIPATION IN SEMINAR AND CONFERENCES

1. Participated in FDP conducted by KL university in association with E and ICT Academy, NIT Warangal on Business intelligence and Big data analysis from 1st July to 6th July
2. Participated in *National conference on Indian Companies Act 2013*, organized by Faculty of Commerce, Osmania University on 7 Feb, 2015

PROFESSIONAL TRAINING

WORK SHOPS ATTENDED AND PARTICIPATED

1. Attended "**11 days' Work shop on Research Methodology**" conducted by ICSSR at Osmania University.
2. Attended "**One-Week Work shop on Research Methodology**" conducted by commerce department, St Francis College for women's

3. Attended "**One-Week Workshop on Research Methodology**" conducted by Koti Women's College.

COMMUNITY SERVICE

Organization

ICBM SBE: Conducted blood camps, conducted activity of traffic safety program and conducted programs in NGOs.

LANGUAGES

English: **Full professional proficiency**

Hindi: Intermediate Listener, good Speaker
Urdu: Intermediate Listener, good Speaker
Telugu: Intermediate Listener, good Speaker

COMPUTER SKILLS

Applications: MS Office 2000, FoxPro, TALLY 7.2

Languages: C, C++

RDBMS: ORACLE 7.3

Operating Systems: DOS, Windows 95/98/ NT/2000

Multimedia Tools: Adobe 6.0, Animation, Flash 5

OTHER

Interests/Hobbies: Research
Citizenship: Indian

REFERENCES

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Phone: (91)9490017562

Current Research Interests:

Currently, Dr. P Lalitha Surya Kumari's research is focused on the following areas.

(1) Security in the applications of Machine learning/Deep learning.
(2) Security in IoT or Autonomous Systems or applications using Blockchain.
(3) Cyber forensics or Cyber security.

Biographical Information:

Dr. P Lalitha Surya Kumari obtained her M.C.A. from IGNOU, Delhi, India, M. Tech. from Nagarjuna University, A.P, India and awarded Ph. D. from Jawaharlal Nehru Technological University (JNTU), Hyderabad 2010. She has got almost 20+ years of teaching experience. She worked as a developer cum Instructress for 4 years(1991-94) in Locknil Electronics Private Ltd., she has got almost 15 years of teaching experience at the college level out of which 10 years are from different Engineering Colleges and remaining experience from different educational institutions like ICSE Schools.

Chapters Accepted and published

1. Accepted a chapter, " **Blockchain-Automated Transport Applications**" for the upcoming book, "**Opportunities and Challenges for Blockchain Technology in Autonomous Vehicles** ", IGI Global.
2. Accepted and submitted a chapter, "RFID Technology in Health – IOT" for the upcoming book, "HealthCare Paradigms in the Internet of Things Ecosystem", Elsevier_IoT_Healthcare_Book
3. Published a chapter, "Big Data – Challenges and Solutions" for the book, "Security, Privacy, and Forensics Issues in Big Data.", IGI Global.

Patents Filed

1. A patent named "IBA- SYSTEM: Intelligent Biometric authentication System User can Transfer the Amount to Registered Account NO' 201821029061 is filed.
2. A patent named "WVTI – SYSTEM: Worker Verification and Tracking Intelligent System" with application number 201821029062 is filed

Projects Submitted

1. Submitted STTP Proposal under AICTE titled "Cyber Security and Block Chaining" during the month of November, 2018. (Under Review)
2. Submitted DST Project under SEED titled "Health Care System for Rural women during pregnancy and after delivery to Enhance the Knowledge of Antenatal, Neonatal and Malnutrition issues" on 1st October, 2018. (Under Review)

Papers Published(2018-19)

1. Accepted a paper "Key Exchange and E-Mail Authentication Using Lagrange Interpolation" at International Conference on Data Engineering and Communication Technology (ICDECT 2019) and will be published in Scopus Indexed Springer's AISC Series (Advances in Intelligent Systems and Computing Series) in March, 2019.
2. D.Shanthi, M. Kiran Kumar, Dr. P Lalitha Surya Kumari "Automatic Vehicle Accident Alert System", JARDCS, Vol.10. 09-special issue, 2018.

Assistant Professor Shreeja Ghanta

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Current Research Interests: Currently, Dr. Shreeja Ghanta's research is focused on three broad areas.

(1) Analyzing the Ecocentric novels from the perspective Ecological Marxist lens.
(2) Teaching English language for ESL learners through Neuro-Linguistic Programming Techniques.
(3) Analyzing the select novels through the interdisciplinary study of Ecocriticism.

Biographical Information:

Dr. Shreeja Ghanta obtained her B.A degree in English Literature from Thiruvalluvar University, T.N, India in 2010 and M.A degree in English Literature from Thiruvalluvar University, India in 2015. She obtained her PhD degree in Literature at VIT University, Vellore Campus under the guidance of Dr. John Paul. In 2018, she joined as Assistant Professor in department of English, K L University, Hyderabad Campus.

Publications

1. The Human Intrusion towards the Balance of Nature in Rachel Carson's The Silent Spring: A Review. Rupkatha Journal on Interdisciplinary Studies in Humanities. VIII, No.1, 16 Feb. 2016, pp. 159–164. ISSN 0975-2935. **(Scopus Indexed)**

2. The Use of Language and Human Psyche in Arundhati Roy's The God of Small Things. Man In India, vol. NO.96, no. 9, 20 Nov. 2016, pp. 3037–3043. ISSN 96 (9): 3037-3043 **(Scopus Indexed)**

3. Unmasking the Masked: Ecotheoretical Reflections with Reference to Kamala Markandaya's Nectar in a Sieve. Man In India, vol. NO. 97, no. 2, 16 Apr. 2017, pp. 439–443. ISSN 97 (2): 439-443. **(Scopus Indexed)**

4. Ghanta, Shreeja. Classroom Techniques to Stimulate Communication Skills in Engineering Students. International Journal of Recent Technology and Engineering. ISSN: 2277-3878, Volume-8, Issue-1, May 2019. **(Scopus Indexed)**

5. Ghanta, Shreeja. Effective Writing Techniques for Engineering Students. International Journal of Innovative Technology and Exploring Engineering. ISSN: 2278-3075, Volume-8 Issue-9, July, 2019. **(Scopus Indexed)**

6. Ecological Consciousness in a Multi-Cultural Society. Scholar Critic: An International Journal of Language, Literature and Culture Studies, vol. 3, no. 3, 20 Dec. 2016.

7. Sacrance of Nature in David Suzuki's The Sacred Balance: Rediscovering Our Place in Nature. Contemporary Discourse, vol. 8, no. 1, 29 Jan. 2017, pp. 146–148. Print.

8. Intangible Values of Nature in Wangari Maathai's Replenishing the Earth: Spiritual Values For Healing Ourselves and The World. Roots International Journal of Multidisciplinary Researches, Vol III, Special Issue 7, October 2016, pp. 43-44. Print. ISSN: 2349-8684.

Articles Published in Books:

9. The Indian Ecofeminist Discourse With reference to Kamala Markandaya's Nectar In a Sieve. National Conference On An Applicative Approach To Ecology In Literature, Coimbatore, Tamil Nadu, March 2017, pp. 263–267. ISBN: 9788192830261.

10. Post Colonial Environmental Imagination in Amitav Ghosh's The Hungry Tide. Innovations In English Language Teaching and Literary Studies, vol. 2, March 2017, pp. 156-161. Print. ISBN: 8193368274.

11. Ecological Marxist Critique of Kamala Markandaya's Nectar in a Sieve. Proceedings of Recent Trends in English Literature, October 2017. ISBN: 9789386782250.

12. The Colonial Encounter: Critical Analysis of Basavaraj Naikar's The Sun Behind the Cloud. Exploring New Horizons, January 2018. ISBN: 9789386722010

13. Ghanta, Shreeja. Ecological Marxist Enquiry of Amitav Ghosh’s Sea of Poppies. English Language, Literature and Linguistics. ISBN: 9386782588, Volume-2, November 2018, p:1-5.

14. Ghanta, Shreeja. Ecocritical Analysis of Linda Hogan’s Solar Storms. English Literature and Education. ISBN: 9789386782595, November 2018, p: 1-3.

15. Ghanta, Shreeja. An Analysis of Kamala Markandaya’s The Coffer Dams. Innovation In English Language, Literature and Culture. ISBN- 938678274X, March 2019, p: 8-9.

Dr. Ravulapalli Sathyavathi
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Research Interests: Dr. R. Sathyavathi research interests falls in multidisciplinary area of Nano-Bio-medical-Optics. Currently her research is focused on

- Design and development of Graphene based biomarkers for early diagnosis of Alzheimer's diseases and Therapeutic applications.
- Detection and measurements of neurotoxic trace element Aluminum in human body fluids by using Proton-induced-X-ray emission (PIXE) technique and its role in progression of Alzheimer's diseases.
- Development of eco-friendly novel synthesis methods of metal nanoparticles and their applications as Surface Enhanced Raman Scattering (SERS) substrates for disease specific bio molecule detection
- Nanotechnology based applications in Energy storage devices, Agriculture (Preparation of bio-solutions for various pest control) and Biosciences (Cancer therapeutics).

Biographical Information:

Dr. R. Sathyavthi has obtained her MSc degree in Physics from S.K.University, A.P, India in 1994. She has received her PhD degree in Physics from University of Pune, India in the year 2003.She had worked as device technologist at Team Asia Lakhi Semiconductors Ltd., Hyderabad, India from May 2001-Nov.2002 and deputed for 6 months at **Sanjose, USA.** She has completed two DST projects under Women Scientist scheme from 2006-2013at School of Physics, University of Hyderabad, India. During her post-doc(Nov.2011- May2012)with CWRU, Cleveland, USA she worked on " The development of Raman spectroscopy as a clinical tool for real time guidance of stereotactic breast needle biopsies for micro-calcification " collaboration with Massachusetts Institute of Technology, USA. She also worked as a Principal Scientist during the period 2014-2015 at Sandor Life Sciences Pvt.Ltd, Hyderabad, India. She has also worked as Research Associate at IIT Bhubaneswar, India for CENEMA (Center of Excellence for Novel Energy Materials)in 2016.She has co-authored 27 publications with 770 citations. In 2018, she joined as Associate Professor in Department of Physics, KLEF, Hyderabad

Selected Publications:

1. Raman spectroscopic sensing of carbonate intercalation in breast micro-calcifications at stereotactic biopsy. **R. Sathyavathi**, Anushree Saha, Jaqueline S. Soares, Nicolas Spegazzini, Sasha McGee, , Ramachandra Rao Dasari, Maryann Fitzmaurice & Ishan Barman
Scientific Reports 5, Article no.9907, 2015 (Nature publishing group) *(DOI: 10.1038/srep09907)*
2. R. R. Juluri, A. Rath, A. Ghosh, A. Bhukta, **R. Sathyavathi**, D. Narayana Rao, Knut Muller, Marco Schowalter, Kristian Frank, Tim Grieb, Florian Krause, A. Rosenauer & P. V. Satyam
Scientific Reports 4 (2014) 4633 (Nature publishing group)
3. Raman spectroscopy provides a powerful, rapid diagnostic tool for the detection of Tuberculous meningitis in *ex vivo* cerebrospinal fluid samples. **Sathyavathi** R , Dingari NC, Barman I, Prasad PSR, Subhashini P, Narayana Rao D, Dasari RR and Jayanthi U ***J. Biophotonics 6 (2013) 567***
4. Silver nanocluster films as novel SERS substrates for ultrasensitive detection of molecules Upender G, **Sathyavathi R**, Raju B, Alee SK, Narayana Rao D, Bansal C *Chemical Physics Letters* ***511*** *(2011) 309*
5. Biosynthesis of silver nanoparticles using Coriandrum sativum leaf extract and their application in nonlinear optics. **Sathyavathi R**, Krishna BM, Venugopal Rao S, Saritha R and Narayana Rao D *J Advanced Science Letters 3 (2010) 138*
6. Size dependent multiphoton absorption and refraction of CdSe nanoparticles. *Venkatram N,* ***Sathyavathi R*** *and Narayana Rao D Optics Express* ***15*** *(2007)*
7. On the development of multifunctional luminescent supramolecular hydrogel of gold and egg white Sudeshna Patra**, Sathyavathi Ravulapalli,** Myung Gwan Hahm, Kiran Kumar Tadi and Tharangattu N Narayanan Nanotechnology 27(2016)415603(6pp)
8. SERS activity of Ag decorated nano-diamond and nano-β-SiC, diamond-like-carbon and thermally annealed diamond thin film surfaces . Mohan Kumar K, VSS Srikanth, **Sathyavathi Ravulapalli**, Upender G, Harish Ojha, Narayana Rao D and C Bansal ***Phys. Chem. Chem. Phys.***, 2015, Advance Article **DOI:** 10.1039/C4CP05236F

Associate Dean -ED Cell and Associate Professor DR.P.Swarupa

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Current research areas:

HRM & OB, Psychological contract, Employee engagement, Talent Management, Human capital management, Green HRM, Cognitive dissonance.

Dr. Pelleti Swarupa obtained her degree B Com from S.V.University in 1999 and MBA in Human Resource Management specialization in the year 2001. She was selected in campus placement joined Heritage Hospital as HR Executive worked for one year. During her tenure she was awarded best employee of the year and her initiative towards Care for senior citizens establishment and execution has been recognized and was published in Eenadu Paper in Vasundara section in 2002.

Later joined RIIMS , Tirupati as assistance professor enrolled for PhD in S.V.University. She was awarded in the year 2014 on her research work done on Quality of Work Life of Doctors in public and private hospitals in Twin cities of Hyderabad.

She worked in reputed colleges like NIBM, St Ann's Pg College, Aristotle PG College, and ICBM-B School as associate professor.

Now joined KLH as associate professor in KLHBS and holding position also Associate Dean - ED Cell. During her tenure received award Best Professor Personnel Management 2019 from IDMBA, Hyderabad

Research Work

She published 6 papers in international journals and 4 papers in National Journals. She presented papers in more than 25 papers in International/National conference . She authored a book QWL of doctors in public and private hospiatls in twin cities by Lambert Academic Publishing in 2014.

Varalakshmi M

Assistant Professor
Department of Mathematics
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Phone: (91)9486769871

Current Research Interests: Currently, Dr. Varalakshmi M's research is focused on two mathematical areas.

(1) Analyzing feedback queues using supplementary variable techniques.
(2) Waiting time reduction for telemedicine customers.

Biographical Information:

Dr. Varalakshmi M obtained her B.Sc.Ed degree in Physics, Chemistry and Mathematics from Regional Institute of Education (NCERT), Mysore University, Mysore, India in 2010 and M.Sc degree in Mathematics from CMS College of Science and Commerce, Coimbatore, India in 2012. After that, she joined as research scholar in VIT University, Vellore and got her M.Phil Degree in Mathematics in 2013. Later, she continued her research in the area of queueing theory at VIT University, Vellore and obtained her PhD degree in Mathematics under the guidance of Dr. V. M. Chandrasekaran and Dr. M. C. Saravanarajan. In 2019, she joined as Assistant Professor in department of Mathematics, K L University, Hyderabad.

Selected Publications:

1. Varalakshmi, M., Rajadurai, P., Saravanarajan, M. C., and Chandrasekaran, V. M., 2019. A batch arrival retrial queue with optional stages of service, immediate feedbacks, server breakdown and atmost J vacations. Trends in Mathematics- Advances in Algebra and Analysis, 1, pp, 437-446.
2. Varalakshmi, M., Rajadurai, P., Saravanarajan, M. C. and Chandrasekaran, V. M., 2016. An M/G/1 retrial queueing system with two phases of service, immediate Bernoulli feedbacks, single vacation and starting failures. *International Journal of Mathematics in Operational Research*, 9(3), pp. 302-328.
3. Varalakshmi, M., Saravanarajan, M. C. and Chandrasekaran, V. M., 2016. An $M^{[X]}$/G/1 queue with second phase multi optional service, immediate Bernoulli feedbacks, single vacation and server breakdown. Global Journal of Pure and Applied Mathematics, 12(3), pp.224-229.
4. Rajadurai, P., Varalakshmi, M., Saravanarajan, M. C. and Chandrasekaran, V. M., 2015. Analysis of M^{X}/ (G) /1 retrial queue with two phases of service under Bernoulli vacation schedule and random breakdown. International Journal of Mathematics in Operational Research, 7(1), pp. 19-41.

Dr. Sandeep Reddy Chitreddy

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Dr. Sandeep Chitreddy is an Assistant Professor in the Department of Electronics and Communication Engineering (ECE) at KLEF Hyderabad. He conducts research in the domain of spatial audio signal processing, speech and audio signal processing. His current research is focused on the following areas.

(1) Object based spatial audio for Virtual and Augmented reality Applications.
(2) DNN based approaches for room acoustic characterisation.
(3) Machine learning approaches for speech and audio signal processing

Education:

BTech ECE, Vellore Institute of Technology, Vellore, 2011 CGPA: 8.81

MTech Signal Processing, EEE Department, IIT Guwahati, 2013 CGPA: 8.29

PhD in Spatial Audio, EE Department, IIT Kanpur 2019.

Work Experience:

Postdoc Research Fellow (Feb 2018 - June 2019) at CVSSP, University of Surrey,

Guildford, United Kingdom.

Professional Membership: IEEE, AES

Courses being taught (June-Dec 2019): 1. Digital Logic & Processors, 2. Microprocessors

Publications:

1. S. Kalkur, **C. S. Reddy** and R. M. Hegde, "Joint Source Localization and Separation ssing Sparsity Based Method", 16th Annual Conference of the ISCA, (INTERSPEECH -2015), Dresden, Germany, September 2015.

2. **C. S. Reddy**, R. Agarwal, L. Aggarwal, and R. M. Hegde, "Binaural source localization using a hrtf data model with enhanced frequency diversity," 24th IEEE European Signal Processing Conference (EUSIPCO), Budapest, Aug 29, 2016, pp. 1463-1467.

3. **C. S. Reddy** and R. M. Hegde, "A joint sparsity and linear regression based method for customization of median plane hrir," 49th IEEE Asilomar Conference on Signals, Systems and Computers, Monterey, California, Nov 8, 2015 pp. 785-789.

4. **C. S. Reddy** and R. M. Hegde, "Horizontal plane hrtf interpolation using linear phase constraint for rendering spatial audio," 24th IEEE European Signal Processing Conference (EUSIPCO), Budapest, Aug 29, 2016 pp. 1668-1672.

5. **C. S. Reddy** and R. M. Hegde, "Design and development of bionic ears for rendering binaural audio," in 2016 IEEE International Conference on Signal Processing and Communications (SPCOM), IISc Bangalore, June 2016, pp. 1-5.

6. J. Kheradiya, **C. S. Reddy** and R. M. Hegde, "Active Speaker Detection Using Audio-Visual Sensor Array", Proceedings of IEEE Symposium on Signal Processing and Information Technology (ISSPIT), Noida, December 2014.

7. A. Singhal, **C. S. Reddy** and R. M. Hegde, "Computing HRTFs using Spherical Near field Acoustic Holography for rendering spatial audio," 2016 Twenty Second National Conference on Communication (NCC), IIT Guwahati, 2016, pp. 1-5.

8. A. Singhal, **C. S. Reddy** and R. M. Hegde, "Computing HRTFs using Spherical Near field Acoustic Holography for rendering spatial audio," 2016 Twenty Second National Conference on Communication (NCC), IIT Guwahati, 2016, pp. 1-5

Preprints:

1. Sandeep R. Chitreddy, and Rajesh M. Hegde. "On the Conditioning of the Spherical Harmonic Matrix for Spatial Audio Applications." arXiv preprint arXiv:1710.08633 (2018).

Professor Tanmoy Mondal

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Current Research Interests: Currently, Dr. Tanmoy Mondal's research is focused on the theoretical and computational investigations of the following areas.

(1) Vibronic coupling Theory, Nonadiabatic quantum dynamics, Photoelectron spectroscopy of negative ions and neutral molecules.

(2) Ultrafast photophysics and photochemistry of polyatomic molecules in the coupled electronic states, relevant for modeling of solar cells, light emitting diode e.t.c.

(3) Jahn-Teller and pseudo-Jahn-Teller dynamics, femtochemistry

Biographical Information:

Dr. Tanmoy Mondal obtained his B.Sc degree in Chemistry from Burdwan University, West Benga, India in 2003 and M.Sc degree in Chemistry from Visva-Bharati University, Shantiniketan in 2005. After that, he joined in PhD programme at the University of Hyderabad, India and obtained his PhD degree in Chemistry under the guidance of Prof. Susanta Mahapatra in February, 2011. Subsequently, he went to Europe and did his post-doctoral research work during March, 2011- January, 2014 at the Univesity of Coimbra, Portugal under Prof. Antonio J. C. varandas.. Then he returned to India with prestigious DST-INSPIRE Faculty award from Government of India and joined the faculty of Chemistry, BITS-Pilani, Goa Campus during Januaery, 2014-January, 2019. In January, 2019 he joined as Associate Professor in department of Chemistry, K L E F, Hyderabad.

Research project/Grant:
1.Completed DST-INSPIRE Faculty award research project of INR 35 Lakh sponsored by DST, India, from January 2014- January 2019,.

Selected Publications:

1. "The Jahn-Teller effects in the ground electronic state of the tetrafluoromethane cation before dissociation: a promoter of the anisotropic fragmentation" S. Sen and **T. Mondal**, Molecular Physics, 117, 2487-2499, 2019,

2. On the higher-order T_2 X ($e+t_2$) Jahn-Teller coupling effects in the photodetachment spectrum of the alanate anion (AlH4-)" **T. Mondal**, Physical Chemistry Chemical Physics, 20, 9401-9410, 2018.

3. Origin of distinct structural symmetry of the neopentane cation in the ground electronic statecompared to the methane cation" **T. Mondal**, Physical Chemistry Chemical Physics, 18, 10459-10472, 2016.

Dr. G. Venkata Suman

Assistant Professor
Department of Mathematics
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Phone: (91)9618528228

Current Research Interests: Fluid Dynamics, Computational Fluid Dynamics, Linear and non-Linear stability.

(1) Convective Transport in a Porous Medium Saturated with Power-law fluid.
(2) Linear stability of the Darcy-Benard convection of a power-law fluid with local thermal non-equilibrium.

Biographical Information:

Dr. G. Venkata Suman obtained his B.Sc degree in Mathematics, Physics and Chemistry from Sri Venkateswara University, A.P, India in 2007 and M.Sc degree in Applied Mathematics from Sri Krishnadevaraya University, India in 2012. He is university first rank holder and also got gold medal in M.Sc. He was selected for Inspire fellowship of DST, Government of India. This fellowship is exclusively for the university first rank holders. He subsequently perused Ph.D. in Applied Mathematics at NIT Warangal, Telangana in the year 2018. He was selected for a prestigious fellowship i.e through Newton Bhabha placement program, this programme is for 4 months duration at U.K. For this fellowship, every year government of India selects 20 members from different science discipline. He got this opportunity in the year 2017. In 2018, he joined as Assistant Professor in the Department of Mathematics, K L University, Hyderabad.

Selected Publications:

1. "Mixed convection heat and mass transfer over a vertical plate in a power-law fluid with variable viscosity, Radiation and Soret effects", International Journal of Humanities and Management Sciences, Vol.3, no.2, 2015.
2. "Effects of Double Dispersion on Mixed Convection in a Power-law Fluid Saturated Porous Medium with Variable Properties using Lie Scaling Group Transformations", Procedia Engineering Vol. 127, pp.362-369, 2015.
3. "Influence of Variable Properties and Double Dispersion on MHD Mixed Convection in a Power-law Fluid Saturated Non-Darcy Porous Medium", Special Topics & Reviews in Porous Media. Vol.8, no.3, pp.177-195, 2017.
4. "Scaling Group Transformation for Mixed Convection in a Power-law Fluid Saturated Porous Medium with Effects of Soret, Radiation and Variable Properties", Frontiers in Heat and Mass Transfer. Vol.9, no.39, 2017.
5. "Mixed Convection in a Power-law Fluid Saturated Non-Darcy Porous Medium with Influence of Variable Properties, MHD and Thermophoresis", International Journal of Pure and Applied Mathematics Vol.113, no.12, pp.160-168, 2017.
6. "Numerical Study on Mixed Convection in a Power-law Fluid Saturated Porous Medium with Variable properties and Thermophoresis effects via Lie Scaling Group Transformations", Computational Thermal Sciences: An International Journal Vol.10, no. 6, pp.545-555, 2018.

Dr. Kambalapally Vinuthna Reddy

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Current Research Interests:

Currently, Dr K Vinuthna Reddy research is focused on three broad areas.

(1) Frequent Itemset Mining.(Coverage Patterns)
(2) Deep Learning Concepts – Security Issues in Fog computing
(3) IOT Based E-Healthcare System

Biographical Information:

Dr. K.Vinuthna, PhD, joined as an Associate Professor in the department of Computer Science and Engineering at Koneru Lakshmaiah Education Foundation (KLH Deemed to be University) at Hyderabad, India on June 19, 2017. She received her Ph.D. from SR University, Rajasthan (Clustering techniques in Data Mining) and M.Tech (Computer Science &Engineering) from University College of Engineering, Osmania University, Hyderabad, India in 2006 and 2008, respectively. She has more than Seventeen years of professional experience in data warehousing, data mining, C Prgoramming, information systems, security policies and technologies. Her research interests include frequent itemset mining, dynamic clustering and indexing of multi-dimensional data, Deep learning concepts – security issues, machine learning, computer forensics and block chain technology. Dr. K.Vinuthna Reddy has published numerous articles in various refereed international journals and conference. She is guiding four Ph.D scholars in security issues in fog computing and IOT based E-Healthcare system

Selected Publications:

1. K.Vinuthna, Dr P V S Srinivas "Frequent Itemset mining Models: Contemporary affirmation of the recent literature" International Journal of Scientific & Engineering Research Volume 4, Issue 2, February-2013
2. K.Vinuthna, Dr R K Pandey "Dynamic clustering and indexing of multi-dimensional data & a cluster-outlier iterative detection" COSMOS: Journal of Engineering & Technology A Refereed Research Journal Volume 4, Issue 2, Jul-Dec 2014
3. K.Vinuthna, Dr R K Pandey "Data mining is the task of discovering interesting & analyzing dynamic data sets ", Globus An International Journal of Management & IT A Refereed Research Journal Volume 6, Issue 2, Jan-Jun 2015
4. Arun Ravula Dr Vinuthna Kambalapally Review on various secure data access schemes and techniques in Fog for Internet of Things, IJCSE , V-6,I-1 ISSN: 2347-2693.

5. Arun Ravula Dr Vinuthna Kambalapally A Study on Privacy Preservation Techniques and Scope of Applying Deep Learning Concepts in Security: A Survey, International Journal of Engineering&Technolog, 2018 ISSN: 2227-524X

International Conferences:

6. K Vinuthna, G. Rekha "Cross Correlation analysis for Software Defect Prediction", In: Proceedings of IIAR International Conference on "Current Research in Emerging Trends of Engineering &Technology" ISBN-13:978-1522941347
7. Dr.K.Vinuthna "Internet of Things: A survey on waste management in IOT enabled Smart Cities" In: "International Conference on Maths and Computing" (In Press)
8. Dr Kambalapally Vinuthna, Mr. Arun Ravula " A Survey on Internet of Things - fog secure data in processing health services" In International Journal of Engineering Technology Science and Research IJETSR ISSN 2394 – 3386 Volume 4, Issue 11November 2017.
9. Dr K Vinuthna, Ms M Shamila A Review on Several Critical Issues and Challenges in IoT based e-Healthcare System in "Proceedings of the International Conference on Intelligent Computing and Control Systems (ICICCS 2019)"DVD Part Number:CFP19K34-DVD; ISBN: 978-1-5386-8112-1

Publications under pipeline:

1. Mr Arun Ravula, Dr K Vinuthna "Randomized Ensemble SVM based Deep learning with Verifiable dynamic access control using user revocation in IoT architecture" Communicated through IET communications for SCI publication on 03/07/2019.

Dr. Satya Tripathy

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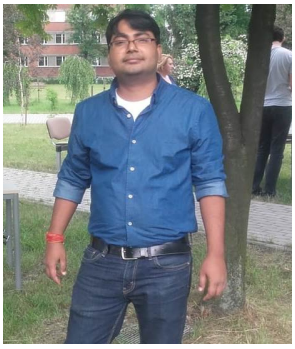

Research Interests:

1. Phase transition and magnetoelectric coupling of rare earth manganites
2. High pressure dielectric studies of glass forming supercooled liquids

Biographical Information:

Dr. Satya Tripathy holds his M.Sc. and Ph.D. degree in Physics from National Institute of Technology, Rourkela, INDIA in 2009 and 2014 respectively. After that he moved to Poland at Institute of Physics and Silesian Center of Education and Interdisciplinary Research, University of Silesia to complete his postdoctoral research till 2016 December under the mentorship of Prof.*hab.* Marian Paluch. He is currently working as an Assistant professor at KL University Hyderabad campus in the department of Physics since June 2017.

Selected Publications:

1 **Satya N. Tripathy,** Marzena Rams-Baron, Zaneta Wojnarowska, Justyna Knapik and Marian Paluch, New limits of secondary β-relaxation.
Scientific Reports, Nature, 7, 40391 (2017) DOI: **10.1038/srep43091**

2 M.Wikarek, S.Pawlus, **Satya N. Tripathy**, A. Szulc and M.Paluch, *How the different molecular architecture influences on the dynamics of H-bonded structures in the glass forming monohydroxy alcohols*.
J. Phys. Chem. B.120 (25) 5744 (2016). DOI: 10.1021/acs.jpcb.6b01458

3 K. Koperwas, A. Grzybowski, **Satya N. Tripathy**, E. Masiewicz and M. Paluch, *Thermodynamic consequences of the kinetic nature of the glass transition*.
Scientific Reports, Nature, 5, 17782 (2015). doi: 10.1038/srep17782

4 **Satya N. Tripathy**, Z. Wojnarowska, J. Knapik, H. Shirota, R.Biswas and M. Paulch, *Glass Transition Dynamics and Conductivity Scaling in Ionics Deep Eutectic Solvents: The Case of (Acetamide+Lithium Nitrate/Sodium Thiocynate) Melts.*
J. Chem. Phys. 142, 184504 (2015) http://dx.doi.org/10.1063/1.4919946

5 **Satya N. Tripathy,** D. K. Pradhan, K. K. Mishra, S. Sen, R. Palai, M. Paulch, J. F. Scott, R. S. Katiyar, and D. K. Pradhan, *Phase transition and enhanced magneto-dielectric response in $BiFeO_3$-$DyMnO_3$ multiferroics.*
J. Appl. Phys. 117, 144103 (2015) http://dx.doi.org/10.1063/1.4916927

6 **Satya N. Tripathy**, K. K. Mishra, S. Sen and D. K Pradhan, *Dielectric and Raman spectroscopic studies of phase transitions in (1-x)$Na_{0.5}Bi_{0.5}TiO_3$–x$BaSnO_3$ Lead-free ferroelectric system*.
J. Am. Ceram. Soc., 97, 1846 (2014) DOI: 10.1111/jace.12838

7 **Satya N. Tripathy**, K. K. Mishra, S. Sen, B. G. Mishra, D. K. Pradhan, R. Palai, and D. K. Pradhan, *Phase transition and magneto-electric coupling of $BiFeO_3$–$YMnO_3$ multiferroic nanoceramics*.
J. Appl. Phys. 114, 144104 (2013). http://dx.doi.org/10.1063/1.4824061

8 **Satya N. Tripathy**, B.G.Mishra, M. M. Shirolkar, S. Sen, S. R. Das, David B. Janes and Dillip K. Pradhan, *Structural, microstructural and magneto-electric properties of single-phase $BiFeO_3$ nanoceramics prepared by auto-combustion method*.
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9 T. Dam, **Satya N. Tripathy**, M. Paluch, S. S. Jena, D. K. Pradhan, *Investigations of Relaxation Dynamics and Observation of Nearly Constant Loss Phenomena in PEO20-LiCF3SO3-ZrO2 Based Polymer Nano-Composite Electrolyte*.
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10 Z. Wojnarowska, E. Thoms, B. Blanchard, Satya N. Tripathy, P. Goodrich, J. Jacquemin, J. Knapik, and M. Paluch, How Is Charge Transport Different in Ionic Liquids? : Effect of High Pressure **Phys. Chem. Chem. Phys.,19, 14141-14147 (2017) DOI:10.1039/C6CP08592J**

Dr. G Madhava Rao

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Current Research Interests: Fluid Dynamics, Bio-fluid Dynamics and Computational Fluid Dynamics

(1) Blood flow through arterial system with mild stenosis
(2) Flow of fluid through tubes and pipes.

Biographical Information:

Dr. G Madhava Rao obtained his B.Sc degree in Mathematics, Physics and Chemistry from Kakatiya University, Telangana, India in 1999 and M.Sc degree in Mathematics from Regional Engineering College Warangal (Now it is National Institute of Technology Warangal), India in 2001. After that, he worked in different Engineering colleges in and around Telangana and Andhrapradesh for 13 years. Later, he joined in National Institute of Technology Warangal, India to obtained his PhD degree in Mathematics under the guidance of Prof. Dr. D. Srinivasacharya in 2013 and successfully received his Ph.D degree in 2016. In 2018, he joined as Associate Professor in department of Mathematics, K L University Hyderabad.

Publications:

1. D.Srinivasacharya and **G Madhava Rao** "Mathematical Model for Blood Flow Through a Bifurcated Artery using Couple Stress Fluid" in *"Mathematical Biosciences", Vol. 278, (2016), pp. 37 – 47.*
2. D.Srinivasacharya and **G Madhava Rao** " Micropolar Fluid Flow Through a Stenosed Bifurcated Artery" in *" Nonlinear Analysis: Modelling and Control", Vol. 22, No. 2, (2017), pp. 147 – 159.*
3. D.Srinivasacharya and **G Madhava Rao** "Computational Analysis of Magnetic Effects on Pulsatile Flow of Couple Stress Fluid Through a Bifurcated Artery" in *" Computer Methods and Programs in Biomedicine", Vol. 137, (2016), pp. 269 – 279.*
4. D.Srinivasacharya and **G Madhava Rao** "Magnetic Field Effects for Copper Suspended Nanofluid Venture Through a Bifurcated Artery" in *"Journal of Nanofluids", Vol. 5, No. 5, (2016), pp. 774-782.*
5. D.Srinivasacharya and **G Madhava Rao** "Magnetic Effects on Pulsatile Flow of Micropolar Fluid Through a Bifurcated Artery" in *" World Journal of Modelling and Simulation", Vol. 12, No. 2, (2016), pp. 147-160.*
6. D.Srinivasacharya and **G Madhava Rao** "MHD Effect on the Couple Stress Fluid Flow Through a Bifurcated Artery" in *" Procedia Engineering", Vol. 127, (2015), pp.877 – 884.*
7. D.Srinivasacharya and **G Madhava Rao** "Pulsatile Flow of Couple Stress Fluid Flow Through a Bifurcated Artery" in *" Ain Shams Engineering Journal", Vol. 9, (2018), pp.883 – 893.*
8. D.Srinivasacharya and **G Madhava Rao** " Modeling of Blood flow through a bifurcated artery using nanofluid" in *" BioNanoScience", Vol. 7(3), (2017), pp.464 – 474.*
9. D.Srinivasacharya and **G Madhava Rao** " Flow of Blood Through a Porous Bifurcated Artery with Mild Stenosis Under the Influence of Applied Magnetic Field" in *" Numerical Heat Transfer and Fluid Flow", pp.233--240.*

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Current Research Interests: Currently, Dr. A. Mahesh Babu research is focused in the following areas.

(1) Cloud Computing.
(2) Cryptography and Network Security.
(3) Internet of Things.

Biographical Information:

Dr. A. Mahesh Babu obtained his PhD degree in Computer Science and Technology from Sri Krishna Devaraya University, A.P, India in 2017. Dr. Mahesh Babu has a total of 18+ years of experience in Research, Software Development and Teaching. He started his career in IT field with Aptech Computer Education. He worked with HCL Talent Care as a Sr. Manager, Later He worked for SDD (Simulator Development Division) which is a R&D division of Indian Army as a Senior Technical Consultant on the Project IWTS (Infantry Weapon Training Simulator). Dr. Mahesh Babu writes articles in Newspaper on Career Guidance. He Published 11 papers in National and International Journals as well he attended 8 Conferences. He joined as Associate Professor in department of Computer Science and Engineering, K L University in June 2019.

Selected Publications:

1. **A. Mahesh Babu**, Dr. G. A. Ramachandra, "Implementing Data Storage Security In Cloud Computing Using Optimized Fisher-Yates Algorithm" in International Journal of Information Technology and Computer Sciences Perspectives", vol.6, no.1, pp January-March 2017; ISSN (Print): 2319-9016, (Online): 2319-9024.
2. **A. Mahesh Babu**, Dr. G. A. Ramachandra, "Enhancing Data Storage Security In Cloud Computing Through SIS" in International Journal of Information Technology and Computer Sciences Perspectives, vol.5, no.5, pp October-December 2016; ISSN (Print): 2319-9016, (Online): 2319-9024.
3. **A. Mahesh Babu**, Dr. G. A. Ramachandra and M. Suresh Babu "Implementation Of Security In Cloud Based Systems Using Encryption And Steganography" in International Journal of Electrical Electronics and Computer Science vol.3, no.11, pp 2015; ISSN (Online): 2347-2820.
4. M. Suresh Babu, G. Srikanth, **A. Mahesh Babu**, "An Empirical Method Of Metadata Management In Multi-Grids And Multi-Clouds" in International Journal of Information Technology and Computer Sciences Perspectives", vol.4, no.3, pp September 2014; ISSN (Print): 2319-9016, (Online): 2319-9024.
5. **A. Mahesh Babu**, Dr. G. A. Ramachandra and M. Suresh Babu, "Implementation Of Privacy-Preserving Public Auditing Methods For Secure Cloud Storage" in Ge-International Journal Of Engineering Research", vol.2, no.5, pp July 2014; ISSN: (2321-1717).

Dr. Megha (Associate Professor)

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Current Research Interests: Currently, Dr. Megha's research is focused on Rule-based systems, Expert systems, Software reuse and Software product line.

Biographical Information: Dr. Megha received her Bachelors of Technology degree in Information Technology from Himachal Pradesh University, Shimla, India in 2010 and the Masters in Engineering degree with specialization in Software Engineering from Thapar University, India in 2012. She continued her research in software product line combined with expert systems and ontologies obtaining her Ph.D. in 2018 from Thapar University, Punjab, India. She was awarded with fellowship by University Grants Commission (UGC), Government of India, in 2014. In 2017, she was a recipient of Grace Hopper Celebration India (GHCI) fellowship. Further, she has worked as Junior Research Fellow and Senior Research Fellow under University Grants Commission (UGC), New Delhi, Government of India for four years. From 2018 to 2019, she was an Assistant Professor with Chitkara University Research and Innovation Network (CURIN), Chitkara University, Rajpura, Punjab, India. Dr. Megha has published many research articles on the area of software reuse in international journals and conferences of repute. She is also the reviewer and editorial board member of many international journals. She is supervising research work of five PhD scholars. At present, she is an Associate professor in the Department of Computer Science and Engineering, Koneru Lakshmaiah Education Foundation, KL Deemed to be University Hyderabad-500075, Telangana, India.

Selected Publications:

1. Shagun Sharma, Mamta Nanda, Raghav Goel, Aashrey Jain, **Megha Bhushan** and Ashok Kumar, Smart Cities using Internet of Things: Recent Trends and Techniques, **International Journal of Innovative Technology and Exploring Engineering (IJITEE)**, **SCOPUS Indexed, v**olume 8, Issue 9S, 24-28, ISSN: 2278-3075, 2019. DOI: 10.35940/ijitee.I1004.0789S19
2. Kanupriya Verma, Sahil Bhardwaj, Resham Arya, Mir Salim Ul Islam, **Megha Bhushan**, Ashok Kumar and Piyush Samant, Latest Tools for Data Mining and Machine Learning, **International Journal of Innovative Technology and Exploring Engineering (IJITEE)**, **SCOPUS Indexed, v**olume 8, Issue 9S, 18-23, ISSN: 2278-3075, 2019. DOI: 10.35940/ijitee.I1003.0789S19
3. **Megha Bhushan,** Shivani Goel and Karamjit Kaur, Analyzing Inconsistencies in Software Product Lines using an Ontological Rule-Based Approach, **The Journal of Systems and**

Software, **SCIE Indexed**, volume 137, 605-617, 2018. DOI: http://dx.doi.org/10.1016/j.jss.2017.06.002

4. **Megha,** Shivani Goel and Ajay Kumar, Improving Quality of Software Product Line by Analyzing Inconsistencies in Feature Models using an Ontological Rule-Based Approach, **Expert Systems**, **SCIE Indexed**, 2017. DOI: 10.1111/exsy.12256
5. **Megha**, Arun Negi and Karamjit Kaur, Method to Resolve Software Product Line Errors. In: Kaushik S., Gupta D., Kharb L., Chahal D. (eds) Information, Communication and Computing Technology. ICICCT 2017. Communications in Computer and Information Science, volume 750, Chapter 24, October 2017, pp. 258-268, **Springer**, Singapore. DOI: https://doi.org/10.1007/978-981-10-6544-6_24 [SCOPUS Indexed]
6. **Megha Bhushan** and Shivani Goel, Improving Software Product Line using an Ontological Approach, **Sādhanā**, **SCIE Indexed**, volume 41(12), 1381-1391, 2016. DOI: 10.1007/s12046- 016-0571-y
7. **Megha** and Shivani Goel, Transformation from LEL to UML, **International journal of computer application**, volume 48, no. 12, June 2012, pp. 18-25. DOI: 10.5120/7400-0231

Patent:

- Kumar Ashok, **Bhushan Megha**, Kanupriya, Sharma Shagun and Nanda Mamta, A System, Smart Walking Stick and Method for Guiding a User, 2019. [Filed, Application no. 201911033206]

Dr. Nazir Ahmad Mir

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Current Research Interests

1. English Language Teaching
2. Curriculum Development
3. Computer Assisted Language Learning
4. Mobile Assisted Language Learning
5. Age Factor & Second Language Acquisition

Biographical Information

Dr. Nazir Ahmad Mir obtained his undergraduate Course at the University of Kashmir in 2007 with the stream of English, Psychology, Philosophy and Education. He completed B.Ed. in English at the University of Kashmir in 2008. He did his post graduation in Applied Psychology in Bharathiar University, Tamilnadu. Thereafter he completed his second post graduation in English through MANNU (A Central University) in Hyderabad in 2012. He was awarded Doctor of Philosophy in English in the year 2018 from B.S. Abdur Rahman Institute of Science and Technology, Chennai. He worked as Lecturer of English at Vishwa Bharti Higher Secondary Institute Jammu & Kashmir. He Joined K L University as Assistant Professor of English on 18th December 2018.

Selected Publications:

1. Mir, Nazir Ahmad. "Only Me." Langlit: An International Peer Reviewed Open Access Journal. 5.3. (2019):28.
2. Mir, Nazir Ahmad. "Birth & Death." Langlit: An International Peer Reviewed Open Access Journal. 5.2. (2018):33.
3. Mir, Nazir Ahmad. "Self-Indulgence: Increasing Psyche among Youths" Rising Kashmir Daily Newspaper [J & K] 23 July 2018.
4. Mir, Nazir Ahmad. "Irish Senate Pummelled Israel" Rising Kashmir Daily Newspaper [J & K] 5 August 2018.
5. Mir, Nazir Ahmad and Dr. A. Shahin Sultana. "Learners Culture and Target language: Language Transition from Literature." Language in India Journal.17.9 (2017): 40-49.
6. Mir, Nazir Ahmad, Dr. A. Shahin Sultana and Alireza Dehbozorgi. "**Tripolar Synergies: Instructional Materials, Tasks and Methods**". Man in India Journal. 96.9 (2016): 2873-2893.
   SCOPUS Indexed Journal https://www.scimagojr.com/journalsearch.php?q=82170&tip=sid&clean=0
7. Mir, Nazir Ahmad and Shahin Sultana. "An Interdependence of Materials, Teaching Practices and Policy: A Study." Theory and Practice in Language Studies Journal. 6.5 (2016): 907-918.
   SCOPUS Indexed Journal https://www.scimagojr.com/journalsearch.php?q=21100314715&tip=sid&clean=0
8. Mir, Nazir Ahmad and Dr. A. Shahin Sultana. "Linguistic Violence Against Women: A Psychosocial Perspective" in the Proceedings of NCMR (National Council of Medical Research) Sponsored National Conference on "Women & Mental Health: A Psychosocial Perspective". School of Social Science and Humanities. 2016. (27-36).
9. Mir, Nazir Ahmad and Dr. A. Shahin Sultana. "Socio-economic Variables Associated with Education: An Academic Remedy for Challenges Faced by Indian Muslims" in the Proceedings of ICSSR Sponsored

National Conference on SEPMI (Socio-economic and Political Status of Muslims in India: Challenges and Development). School of Social Science and Humanities. 2015 (206-212).

10. Mir, Nazir Ahmad, Aamir Hussain Mir and Afrah Fathima. “High Correlation between Language Commerce and Technical Contents: A Study on Jammu and Kashmir Government Upper Primary Schools.” International Journal of Multidisciplinary Advanced Research Trends. 1. 1 (2014):129-143.
11. Mir, Nazir Ahmad. Nativist and Sociocultural Theory Correlates With the Quranic Exegesis: Language Acquisition Psychology. Golden Research Thoughts. 4.3 (2014): 1-4.

Dr. Niraj Kumar

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Current Research Interests: Currently, his research is focused on synthesis of nanomaterials for electrochemical energy storage devices and fabrication of nanoelectronic devices.

Biographical Information:

Dr. Niraj Kumar obtained his B. Tech degree in Electronics & Communication Engineering from Dr. MGR Educational & Research Institute, TN, India in 2008 and M. Tech degree in Nanotechnology from VIT University, Vellore, India in 2010. After that, he worked as a lecturer in department of ECE at NIT Calicut, India during the year of 2011. Later, he moved to SRM Institute of Science & Technology, India and obtained his PhD degree in Nanotechnology in 2018 with research focus on Energy Storage Devices. After that he worked as Research Assistant Professor in ECE Department at Kalasalingam University, India from 2018-2019. Currently, he is working as Assistant Professor in department of ECE at K L University, Hyderabad, India.

Selected Publications:

1. Niraj Kumar, Jassiel R. Rodriguez, Vilas G. Pol, Arijit Sen, "Synergistically advancing Li storage property of hydrothermally grown 1D pristine MnO_2 over a mesh-like interconnected framework of 2D Graphene Oxide", **J. Solid State Electrochem.**, **2019**, 23, 1443-1454, **IF: 2.5.**
2. Niraj Kumar, Jassiel R. Rodriguez, Vilas G. Pol, Arijit Sen "Facile synthesis of 2D graphene oxide sheet enveloping ultrafine 1D $LiMn_2O_4$ as interconnected framework to enhance cathodic property for Li-ion battery", **Appl. Surf. Sci., 2019,** 463**,** 132-140, **IF: 5.1.**
3. Niraj Kumar, K. Guru Prasad, T. Maiyalagan, Arijit Sen, "Precise control on morphology of ultrafine $LiMn_2O_4$ nanorods as supercapacitor electrode via two-step hydrothermal method", **CrystEngComm**, **2018**, 20, 5707-5717, **IF: 3.3**.
4. Niraj Kumar, K. Guru Prasad, Arijit Sen, T. Maiyalagan, "Enhanced pseudocapacitance from finely ordered pristine α-MnO_2 nanorods at favourably high current density using redox additive", **Appl. Surf. Sci., 2018**, 449, 492-499, **IF: 5.1**.
5. Niraj Kumar, S. Bhaumik, Arijit Sen, A. Pooja Shukla, S. D. Pathak, "One-pot synthesis and first-principles elasticity analysis of polymorphic MnO_2 nanorods for tribological assessment as friction modifiers", **RSC Adv.**, **2017**, 7(54), 34138-48, **IF: 3.0**.
6. Niraj Kumar, Arijit Sen, Kumuthini Rajendran, R. Rameshbabu, Jeevani Ragupathi, Helen Annal Therese, T. Maiyalagan, "Morphology and phase tuning of α- and β-MnO_2 nanocacti evolved at varying modes of acid count for their well-coordinated energy storage and visible-light-driven photocatalytic behaviour", **RSC Adv.**, **2017**, 7(40), 25041-53, **IF: 3.0**.
7. Niraj Kumar, P. Dineshkumar, R. Rameshbabu, Arijit Sen, "Facile size-controllable synthesis of single crystalline β-MnO_2 nanorods under varying acidic strengths", **RSC Adv.**, **2016**, 6(9), 7448-7454, **IF: 3.0**.
8. Niraj Kumar, P. Dineshkumar, R. Rameshbabu and Arijit Sen, "Morphological analysis of ultra fine α-MnO_2 nanowires under different reaction conditions, **Mater. Lett.**, **2015**, 158, 309-312, **IF: 3.0**.

Dr.Satuluri Padma

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Current Research Interests

Work Life Balance, Stress Management, Career Plateau, Employee Engagement, Emotional Intelligence, Training and Development and Total Quality Management.

Biographical Information

Dr.Padma obtained BA from Andhra University, Visakhapatnam, MBA from Osmania University, Hyderabad, M.Phil from Sri Venkateswara University, Tirupathi. She obtained her Ph.D from Jawaharlal Nehru Technological University, Hyderabad under the guidance of Dr.M.Sudhir Reddy. She has also obtained Diploma in Training and Development from Indian Society for Training and Development, Newdelhi, India. Dr.Padma worked in various educational institutions and B-Schools and nurtured many students of BBA and MBA. She joined in K L E F University, Hyderabad Campus in the Year 2018 as Associate Professor and also presently working as HOD for KL Hyderabad Business School. Her area of specialization is Human Resource Management and Organizational Behaviour.

Selected Publications

- ***S Padma*** *and M Sudhir Reddy* (2014), "Work life balance and Job Satisfaction among School Teachers: A Study", *The IUP Journal of Organizational Behavior* (ISSN: 0972-687X), Vol. XIII, No.1, pp. 51-61.
- ***Satuluri Padma*** *and M.Sudhir Reddy* (2014), "Role of Superior's support on Work life balance of School Teachers, Hyderabad", *RVS Journal of Management* (ISSN: 0975-3435), Vol.VII, No.2, pp.09-16.
- ***S Padma*** *and M Sudhir Reddy* (2013)," Effect of Demographic Variables on Work Life balance (WLB) of School Teachers", *Personnel Today* (ISBN: 0970-8504), Vol. XXXIV, No.3, pp.03-08
- **Padma Satuluri** and Sudhir Reddy (2013), "Effects of Stress on Work Life Balance-A Study on Female Police Personnel", *SIDDHANT-A Journal of decision making,* (ISSN: 2231-0649), Vol.13, No.4, pp.229-234.
- ***S Padma*** *and M Sudhir Reddy* (2013)," Work Life Balance: Women Police Constables", *SCMS Journal of Indian Management* (ISSN: 0973-3167), Vol. V, No. 4, pp.39-47.

Dr. Prem Pal Singh

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Current Research Interests: Currently, Dr. P P Singh's research is focused on three broad areas.

(1) My research develops machine learning and data mining techniques to discover knowledge for intelligent, Decision Support Systems.
(2) Working on design and fabrication of CNC based Parallel Paper Tube making machine for industry purpose and write an idea patent on it.
(3) Internet of Things (IoT).

Biographical Information:

Dr. P.P. Singh obtained his B.E degree in Electronics Engineering from Nagpur University, MH, India in 1997; M.Tech. degree in Electronics Design &Technology from UPTU, Lucknow, India in 2003 and Ph.D. from DEI, Agra in 2015. He has approx. 16 years of work experience; he worked as Professor & Head, Associate Professor, Assistant Professor and senior lecturer in Electronics and Communication Engineering department of engineering colleges: MIET, Meerut, HCST, Mathura, AEC, Agra MIT, Bulandshahr affiliated to Uttar Pradesh Technical University, Lucknow, India. He joined as Professor in department of Electronics and Communication, K L University, Hyderabad.

Selected Publications:

1. Tomar P. P. S and P.K. Saxena, special issue of the International Journal of the computer, the Internet and Management, ACM, Vol.19, 2011,page 25.1-25.6, Cited by 16.

2. Tomar P. P. S, R. Singh, P. K. Saxena & J. Sharma International Journal of Biometrics and Bioinformatics (IJBB), Volume (5) : Issue (4) : 2011 , page 216- 224. (impact factor 1.2), Cited by 14.

3. Tomar P. P. S , R. Singh, P. K. SaxenaAfrican Journal of Computing & ICT., IEEE Nigeria, Vol 4. No. 3 (2), 2011, page 1-6. (impact factor 1.8)

4. Tomar P. P. S , R. Singh, and P. K. Saxena, African Journal of Computing & ICT., IEEE Nigeria, Vol 6. No.1 , 2013, page 127-140. (impact factor 1.8), Cited by 2.

5. Tomar P. P. S , R. Singh, and P. K. Saxena, African Journal of Computing & ICT., IEEE Nigeria, Vol 6. No.2 , 2013, page 149-160. (impact factor 1.8), Cited by 3.

Dr. Pranayanath Reddy

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Current Research Interests: Currently, Dr. Pranayanath Reddy 's research is focused on four broad areas.

1) Develop minimal package suite to deploy the project on cloud container using Docker Technology.
2) Creating new security features in Flow controls for authentication and authorization in web applications
3) Develop new methodology in software engineering process to make the system more robust and flexible
4) Using FEMA techniques in quality management of Software development.

Biographical Information:

A.Pranayanath Reddy obtained his B.Tech degree in Computer Science and Information Technology from RMCE, JNTU-Hyderabad, India in 2005 and M.Tech degree in Software Engineering from Kakatiya University, Warangal, India in 2007 . After that , he worked as Senior System Engineer at Infosys Technologies Pvt Ltd , Hyderabad , India from 2007 to 2009, later he moved to Bharat Institute of Technology and Science, Ibrahimpatnam, R.R. Dist, India and worked as Assistant Professor from 2009 to 2011. Then he moved to CVR college of Engineering , Ibrahimpatnam, R.R. Dist, India and worked as Assistant Professor from 2011 to 2014. Then moved to Alliance University, Bengaluru, India and worked as Associate Professor from 2014 to 2018. He obtained Doctoral degree in Cloud computing from Pacific Academy of Higher Education and Research University, Udaipur, India in 2017. In 2018, he joined as Associate Professor in department of Computer Science and Engineering, KL University(Hyderabad campus).

Selected Publications:

1. Dr. Shekar R, **Dr. Pranayanath Reddy**, "Retinopathy Disease Extraction exhausting Digital Image Processing Techniques", in International Journal of Scientific Research in Computer Science Applications and Management Studies, ISSN: 2319 – 1953 (online), Volume 7, Issue 2, March 2018, (Indexing: UGC Approved, SIS)
2. Pranayanath Reddy , Dr. Manoj someswar , "Protecting Data Using Platform Encryption In Cloud", in International Journal of Computer Science and Mobile Applications, ISSN: 2321-8363 (online), Volume 5, Issue 11, November 2017, (Indexing: UGC Approved, Open J-Gate, Computer Science Directory)
3. Pranayanath Reddy , Dr. Manoj someswar, "Preserving privacy in Cloud based applications using two-factor authentication (TOTP/WTP)" , in International Journal of Advanced Research in Computer and Communication Engineering ,ISSN: 2278-1021 (online), Volume 5, Issue 12, December 2016, (Indexing: Computer Science Directory)
4. Pranayanath Reddy , Dr. Manoj someswar, "Authenticating Users With Multiple Levels Of Validations In A Secure Cloud Computing Environment", in I-manager's Journal on Cloud Computing , ISSN: 2350-1308, Volume 3, May-July 2016, (online) (Indexing: Pro-Quest, EBSCO, Open J-Gate)

5. Pranayanath Reddy , Dr. Manoj someswar, "Study on Security Issues and Possible solutions in Cloud Computing", in International Journal of Management, IT and Engineering, ISSN: 2249-0558 Volume 4, Issue 9 ,Sep 2014. (Indexing: Pro-Quest, EBSCO, Open J-Gate)
6. Pranayanath Reddy, Tejoraghuram Sharma, "Component Based Software Engineering Using Innovative Patterns", in International Journal of Computer Science and Technology ,ISSN: 0976-8491 , Volume 3, Issue 1, Jan - March 2012.(Indexing: DOAJ, Computer Science Directory)
7. Tejoraghuram Sharma, Pranayanath Reddy, "Defect Prediction and Analysis Using ODC Approach in a Web Application", in International Journal of Computer Science and Information Technology, ISSN: 0975–9646 (online), Volume 2 , Issue 5, Oct-Dec 2011.(Indexing: DOAJ, Open J-Gate)
8. Mr. Sangam Biradar, Dr. Shekar, Dr.Pranayanath Reddy , "Algo_Seer: System for Extracting and Searching Algorithms in Scholarly Big Data", in Springer Conference ICICV 2019 at Francis Xavier Engineering College, Tiruneveli, Feb 2019.
9. Tejoraghuram Sharma, Pranayanath Reddy, "Empirical Methodology of Testing using FMEA and Quality Metrics" in IEEE Conference ICIRCA 2018 at RVS College of Engineering and Technology, Coimbatore, July 2018.
10. Mr. Sangam Biradar, Dr. Shekar, Dr.Pranayanath Reddy "Build Minimal Docker Container Using Golang", in IEEE Conference ICCS 2018 at Vaigai College Engineering (VCE), Madurai, June 2018.

Dr. Gillala Rekha
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Research Interest:

Currently Dr. Rekha's research interest is in Machine Learning, Pattern Recognition, Deep Learning and Data Mining. Specifically working on imbalance problems pertain to real world applications.

Biographical Information:

Dr. Rekha obtained her MCA from Osmania University and M.Tech from JNTUH. She completed her PhD from SRU and currently working as Assoc. Professor in CSE department at KL University.

Publications:

1. Gillala Rekha, and V. Krishna Reddy, "A Wide Scale Classification of Class Imbalance Problem and its Solutions: A Systematic Literature Review", Journal of Computer Science, Vol.16, 2019, ISSN Print: 1549-3636.
2. Rekha. G, Krishna Reddy, V. "Solving class imbalance problem using bagging, boosting techniques with and without using noise filtering method", International Journal of Hybrid Intelligent Systems, vol. 15, no. 2, pp.67-76, 2019, IOS press.
3. Gillala Rekha, and V Krishna Reddy, "A Novel Approach to Solve Class Imbalance Problem Using Noise Filter Method", ISDA 2018: 18th International Conference on Intelligent Systems Design and Applications. VIT, Vellore, India, December 6-8, 2018.
4. Amit Kumar Tyagi, Gillala Rekha, and N Sreenath "Is your Privacy Safe with Aadhaar?: An Open Discussion", PGDC 2018: Fifth International Conference on Parallel, Distributed and Grid Computing (PDGC), Jaypee University of Information Technology, Himachal Pradesh, India, 20-22 December 2018.
5. Amit Kumar Tyagi, Gillala Rekha and N Sreenath, "Real Virtual IDentification (RVID) - Providing a Virtual, Secure and Anonymous ID", ICICCD 2018: Third International Conference on Intelligent Communication, Control and Devices, Dehradun India, 21-22 December 2018.
6. Amit Kumar Tyagi, Nandula Anuradha, G.Rekha, Sonam Sharma, and Sreenath Niladhuri,"How a User will look at the Connection of Internet of Things Devices?: A Smarter Look of Smarter Environment", ICACSE: 2019: 2nd International Conference on Advanced Computing and Software Engineering, KNIT Sultanpur, 2019, India, 8-9 February 2019.
7. Amit Kumar Tyagi, G.Rekha, "Machine Learning with Big Data", SUSCOM-2019: International Conference on Sustainable Computing in Science, Technology & Management (SUSCOM-2019). Amity University Rajasthan, India, 26-28 February 2019.
8. G.Rekha, Amit Kumar Tyagi, and V Krishna Reddy, "Performance Analysis of Under-Sampling and Over-Sampling Techniques for Solving Class Imbalance Problem", SUSCOM-2019: International Conference on Sustainable Computing in Science, Technology & Management (SUSCOM-2019). Amity University Rajasthan, India, 26-28 February 2019.
9. G.Rekha, Amit Kumar Tyagi, "Necessary Information to Know to Solve Class Imbalance Problem: From a User's Perspective", ICRIC-2019: The 2nd International Conference on Recent Innovations in Computing, 8-9 March, 2019, Central University of Jammu, J & K, Lecture Notes in Electrical Engineering (LNEE), Springer, ISSN: 1876-1100.
10. G. Rekha, Amit Kumar Tyagi, and Nandula Anuradha, "Integration of Fog Computing and Internet of Things: An Useful Overview", ICRIC-2019: The 2nd International Conference on Recent Innovations in Computing, 8-9 March, 2019, Central University of Jammu, J & K, Lecture Notes in Electrical Engineering (LNEE), Springer, ISSN: 1876-1100.
11. Published book on "Associate Analytics" with Lambert International publishing house.

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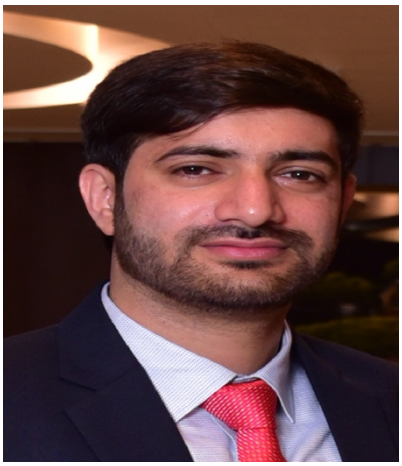

Current Research Interests: Currently, Dr. Mohmad Mushtaq Khan's research is focused on three broad areas.

(1) Prediction of bankruptcy using different bankruptcy prediction models.
(2) Liquidity and Profitability performance analysis of Indian telecom sector.
(3) Impact of liquidity on profitability of different sectors of Indian economy.

Biographical Information:

Dr. Mohmad Mushtaq Khan obtained his Bachelor's degree in Management from Bangalore University, Karnataka, India in 2010 and Master's degree in Management from Bangalore University, India in 2012 with specialization of Finance and Marketing. After that, he worked in a College in Bangalore as assistant professor. Later, he moved to Maulana Azad National University, Hyderabad, and obtained his PhD degree in Management under the guidance of Dr. Syed Khaja Safiuddin and Prof. S.S. Murthy (IPE) in 2019. Dr. Khan is UGC-NET and TS-SET qualified and recipient of ICSSR Doctoral Fellowship. In 2019, he joined as Assistant Professor in department of MBA, K L University Hyderabad.

Selected Publications:

1. Khan, M. M., Safiuddin S. K. & Murthy S. S. "Impact of Liquidity on Profitability-A Study of Select FMCG Companies" International Journal of Research and Analytical Reviews (IJRAR) Volume 6, Issue 1, pp- 977-983, 2019 March, 2349-5138
2. Khan, M. M. & Safiuddin S. K. "Analyzing Financial Health of Select Automobile Companies" International Journal of Research in Social Sciences Vol. 8 Issue 11(1), pp- 21-26, 2018 November, 2249-2496
3. Khan, M. M. & Safiuddin S. K. "Accuracy of Bankruptcy Prediction Models in Indian Context-A Study" International Research Journal of Commerce, Arts And Science Volume 9 Issue 4, pp- 273-279, 2018 April, 2319 – 9202
4. Khan, M. M. & Safiuddin S. K. "GST and Common Man-A Study with Reference to Select Commodities" International Journal of Research in Management & Social Science, Vol, 6, Issue I (IX), pp- 24-28, 2018 March, 23220899
5. Khan, M. M. & Safiuddin S. K. "Predicting Bankruptcy of Select Indian Cement Manufacturing Companies" Journal of Applied Finance & Economics, Vol, 5, Issue 2, pp- 9-18, 2017 May, 23476753

Dr G Krishna Kumari

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Current Research Interests: Fluid Dynamics, Bio-fluid Dynamics and Computational Fluid Dynamics, Bio Medical Applications, Mathematical Modelling

Biographical Information:

I (Dr G Krishna Kumari) obtained B Sc Degree from Aacahrya Nagarjuna University and received 5th rank , gold , silver medals for the college topper, subject topper. Received best outgoing student award for the year 1993. Completed her M.Sc degree from Sri Padmavathi Mahila University , received gold medal for the University topper. Qualified CSIR-NET in the year 2007. Completed PhD from Osmania University. One scholar has awarded PhD from JNTU Hyderabad . Currently she is guiding 4 students for JNTUH University. She is the editorial boartd member of IJIRSET and reviewer of Journal of Applied Fluid Mechanics, International Journal of Mathematical Engineering and Science, Journal of Applied & Computational Mathematics. She has the member ship in various societies,(**IAENG** - 168622.**,UACEE-SNM10100055750, CSTA- 1266446, INDIAN MATHEMATICAL SOCIETY).** Currently associated with KL University and working as Associate Professor in the department of Mathematics.

International journal Publications:

1. Unsteady Peristaltic Pumping in a Finite Length Tube With Permeable Wall, ASME Journal of Fluids Engineering, Vol. 132, 101201(1-4)2010.
2. Peristaltic Pumping of a Jeffrey Fluid under the Effect of Magnetic Field in an inclined channel, International Journal of Applied Mathematical Sciences, Vol 5, 447-458, 2011.
3. Peristaltic Pumping of a Jeffrey Fluid in a Porous Tube, ARPN Journal of Engineering and Applied Sciences, Vol. 6, 61-66, 2011.

4. Peristaltic Pumping of Magneto hydrodynamic Casson fluid in an inclined channel Advances in Applied Science Research ,Vol. 2 ,428-436, 2011.
5. Peristaltic transport of a power-law fluid in an asymmetric channel bounded by permeable walls , Advances in Applied Science Research, Vol. 2 , 396-406, 2011.
6. Peristaltic motion of a fourth – grade fluid through a porous medium under the effect of a magnetic field in an inclined channel, Journal of Basic and Applied Scientific Research, Vol. 1,1052-1064, 2011.
7. Flow of Herschel – Bulkley fluid in an inclined flexible channel lined with porous material under peristalsis, Int. Journal of Innovative Engineering and Creative Technology, Vol. 1 ,24-31, 2011
8. Peristaltic transport of a power – law fluid in an inclined tube with permeable wall, Published in Proceedings of International Conference conducted by Department of Mathematics, Osmania University ,2011
9. Peristaltic Pumping of a Conducting Jeffrey Fluid in a Vertical Porous Channel with Heat Transfer, Advances in Applied Science Research, Vol. 2, 439-453, 2011.
10. Peristaltic Transport of a Carreau Fluid in an Asymmetric Channel through Porous Medium, Published in the International Conference Proceedings organized by Royal Institute of Technology , Hyderabad
11. Flow of a Jeffrey fluid through a tapered tube with permeable walls , Advances in Applied Science Research, Vol. 3, 2159-2168, 2012.
12. Pulsatile flow of a couple stress fluid in a channel bounded by permeable beds with suction and injection , IJSTM, Vol. 3, 2012
13. Peristaltic Transport of a Micro polar fluid in an inclined channel with permeable walls, Int. Journal of Innovative Engineering. And Creative Technology, Vol. 3, 86-90, 2013,
14. MHD peristaltic motion of a Williamson fluid through a porous medium in a channel, International J. of Math. Sci. &Engg. Appls. (IJMSEA), Vol. 7, pp. 123-133, 2013.
15. Peristaltic motion of a Micropolar fluid under the effect of a magnetic field in an inclined channel, The International Journal Of Engineering And Science (IJES) , Vol. 2, pp31-40 , 2013.

16. Effect of thickness of the porous material on the peristaltic transport of a Jeffrey fluid when the tube wall is provided with non-erodible porous lining, FONDAZIONE GIORGIO RONCHI, vol 5, pp 543-551,2014
17. Peristaltic pumping of a Jeffrey fluid in an asymmetric channel with permeable walls, Malaya Journal of Matematik, vol 2 pp 141-150, 2014.
18. A survey of Information mining in Big Data as a part of Health Informatics, International Journal on Computing Communications and Systems,(IJCCS), ISSN 2277-6699 VOL -4,Issue-2 (dec-2015)
19. Influence of Velocity Slip on the Peristaltic Pumping of a Jeffrey Fluid in a Non Uniform Annulus, International Journal of Innovative Research in Science, Engineering and Technology, Vol : 5Issue -1, Jan-2016
20. Formulation of a combined transportation and inventory optimization model with multiple time, S.V.H.N. Krishna Kumari, *International Journal of Engineering Research and Applications* (*IJERA)* ,Vol:15, No.4, 2016
21. A study on cognitive systems , capabilities and their applications, International Conference on Communications , Signals Processing, Computing and Information Technologies (ICCSPCIT) , ISBN 9789383038459 , page 185
22. Peristaltic Flow of MHD Phan-Thien-Tanner Fluid in an Asymmetric Channel with Porous Medium, S V H N Krishna Kumari. P., ACTA CIENCIA INDICA,2016.
23. Peristaltic Pumping of a Jeffrey Fluid in an Inclined Channel with Suction and Injection Under Velocity Secondary Slip Condition, International Journal of Computer & Mathematical Sciences IJCMS ISSN 2347 – 8527 Volume 6, Issue 7 July 2017.
24. Peristaltic Pumping of a Jeffrey Fluid in an Inclined Channel with Heat Transfer under Velocity Slip Condition, Online International Interdisciplinary Research Journal, {Bi-Monthly}, ISSN 2249-9598, Volume-07, June 2017 Special Issue (02)
25. Mathematical modeling of velocity and heat transfer in an optically thick nanofluid incorporating several engineering strategies, Advanced Science Letters , 2018
26. A study on the effect of Peristalsis and Cilia of MHD Micropolar fluid flow through an inclined porous channel VOLUME 11 SEPTEMBER 2018 Impact Factor - 1.09, SCOPUS& SCI
27. Automation of Temperature and Humidity Monitoring System- Application of IoT, International Journal of Computer Sciences and Engineering, , June 2018.

28. Peristaltic pumping of a jeffrey fluid in an inclined channel with suction and injection under velocity secondary slip condition. 7th International Conference on Engineering Technology, Science and Management Innovation (ICETSMI-2017).

Dr. Rakhi Bhattacharya

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Current Research Interests: Currently, Dr. Rakhi Bhattacharya's research is focused on three broad areas.

(1) Generation of Orbital angular momentum and vector beams using Photonic Crystal Fibers emphasis on mode division multiplexing.
(2) Microstructure Optical Fiber coated with Zinc Oxide Nano-rods for optical sensor applications.
(3) Polarimetry technique for birefringence calculation of Special Fibers or photonic crystal fibers.

Biographical Information:

Dr. Rakhi Bhattacharya obtained her B.Sc. degree in Physics, Chemistry and Mathematics from Kirodimal Govt. Arts and Science College Raigarh, Chhattisgarh, India in 2001 and M.Sc. degree in Electronics from Guru Ghasidas University, Bilaspur, Chhattisgarh, India in 2003. After that she has worked as Junior Research Fellow in DST sponsored project at Birla Institute of Technology, Mesra, Ranchi, Jharkhand, India from 2006-2008. Later she has awarded CSIR-Senior Research Fellow and worked in Birla Institute of Technology, Mesra, Ranchi, Jharkhand, India from 2008-2011. She has obtained her PhD. Degree in Applied Physics under the guidance of Professor Swapan Konar (currently Vice Chancellor of Birla Institute of Technology, Mesra, Ranchi, India) in 2014. She has worked in University of Hyderabad as Post-Doctoral research fellow under the supervision of Professor Nirmal Kumar Vishwanathan in 2015. She has been awarded as SERB- Young scientist in 2016 and worked at University of Hyderabad till 2018. Meanwhile she has moved to KTH Royal Institute of Technology, Stockholm, Sweden for collaborative research work for the period of six month in the year 2017-18. In 2018, she joined as assistant Professor in department of physics, KL University Hyderabad campus.

Selected Publications:

1. Rakhi Bhattacharya, "Generation of phase singular optical beams in microstructure optical fibers", Optics Communications, vol. 428, 15-21, (2018).
2. Rakhi Bhattacharya and S. Konar, "Extremely large birefringence and shifting of zero dispersion wavelength of photonic crystal fibers", Optics and Laser Technology, vol.44, 2210, (2012).
3. Rakhi Bhattacharya and S. Konar, "Dual core photonic crystal fiber for dispersion compensation", Journal of Nanophotonics, vol. 6, 063520-1, (2012).
4. Rakhi Bhattacharya and S. Konar, "Design of Microstructure Fibers with Flat Negative Dispersion Over Large Wavelength Bands", Optoelectronics and Advanced Materials vol. 10, 3159-3164, (2008).
5. S. Konar, S.K. Ghorai and Rakhi Bhattacharya, "Highly Birefringent Microstructure Fiber with Zero Dispersion Wavelength at 0.64 μm", Fiber and Integrated Optics vol. 28, issue 3, 138, (2008).
6. Rakhi Bhattacharya and S. Konar, "Design of Photonic Crystal Fiber with Zero Dispersion Wavelength near 0.65 μm" Fiber and Integrated Optics vol. 27,issue 2, 89 (2008).
7. S. Konar and Rakhi Bhattacharya, "Design of Photonic Crystal Fibers for Dispersion Compensation Over S ,C and L bands" Optoelectronics and Advanced Materials-Rapid Communications vol. 11, 442-447 (2007).

Dr Harikrishna Erothu PhD (France) PDF (UK) AFHEA (UK) MRSC (London)

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Current Research Interests: Currently, Dr Harikrishna Erothu's research is focused on these areas.

- **Design, Synthesis and Development** of Novel Polymers for **Energy materials**
- Synthesis of (**RAFT** derived) **homo- and block copolymers** towards their application for **Solar cells**
- Development of **Polymer Electrolytes** with nano composites for for **Rechargeable Batteries**
- Synthesis of **Polymer nano composite membranes** for **Efficient treatment of contaminated water**

Biographical Information:

Dr Harikrishna Erothu (HE) obtained his B.Sc degree (batch topper) in Mathematics, Physics and Chemistry from Andhra University, A.P, India in 2000 and M.Sc degree (batch topper) in Inorganic Chemistry from Andhra University (Campus), Visakhapatnam, India in 2003. After GATE qualified, he joined as CSIR research fellow in IIT Madras, Chennai and worked on organic polymers for material applications from 2003-2007. Later, he moved to LCPO, University of Bordeaux1, **France** and obtained his PhD (2011) in Polymer Chemistry under the guidance of Prof. Henri Cramail. Then, Dr HE received prestigious **'Marie-Curie Intra European Fellowship (IEF) Award**' (UK) and worked as Post-doctoral fellow (PDF) at Aston University, Birmingham, **United Kingdom** (collaboration with BELECTRIC, **Germany**) from 2011-2016. Dr HE published his research results in highly reputed international journals (**> 270** citations) and **2 Wiley book chapters.** He also presented his research results in many international conferences (**> 35**) including **invited lectures**. To his credit, he received many research awards in his career including prestigious **'Marie-Curie Intra European Fellowship (IEF) Award**' (UK) and **CNRS doctorate fellowship** (France). Dr HE received '**Best Poster Award**' for his research work at University of Birmingham, UK (2015), **COST Action** (MP1307) Travel grant, **D. H. Richards** Bursary Award, **RAPS** bursary and also recipient of **Associate Fellow** (2016) of the UK Higher Education Academy (AFHEA). He is a member of **Macrogroup, RAPS, and RSC**, UK and also served as **RSC *Chemnet* ambassador**, West midlands region. After his PDF, Dr HE joined in 2016 as Associate Professor in the Department of Chemistry, K L University.

Selected Publications:

1. Matthew J Dyson, **Harikrishna Erothu** *et al.,* "Tuning Order of Conjugated Polymers with Contrasting Polarity", *Chemistry of Materials,* March 2019 **(Impact Factor 10.16)** (accepted doi.org/10.1021/acs.chemmater.8b05259) (collaboration with **Imperial College London, UK**).
2. **Harikrishna Erothu** *et al.,* "Novel solid polymer electrolyte based on PMMA:CH_3COOLi - Effect of salt concentration on optical and conductivity studies", *Polymer Bulletin*, pp. 1-19**,** 2019 **(Impact Factor 1.86).**
3. Mahfoudh, **Harikrishna Erothu** *et al.,* "Main-chain Poly(fullerene) Multiblock Copolymers as Organic Photovoltaic Donor-Acceptors and Stabilizers", *Journal of Materials Chemistry A,* vol. 5, pp. 7533-7544, 2017 **(Impact Factor 10.73)** (collaboration with **University of Bordeaux1, France**).
4. Mahfoudh, **Harikrishna Erothu** *et al.,* "Fullerene-capped Copolymers and P3HT:PCBM Bulk Heterojunctions: Device Stability and Efficiency Improvements", *Journal of Materials Chemistry A,* vol. 3, pp. 18207-18221, 2015 **(Impact Factor 10.73)**.
5. **Harikrishna Erothu** *et al.,* "Synthesis, Thermal Processing and Thin Film Morphology of Poly(3-Hexylthiophene)-Poly(Styrene Sulfonate) Block Copolymers", *Macromolecules,* vol. 48, pp. 2107-2117, 2015 **(Impact Factor 5.91)**.
6. M. Urien, **Harikrishna Erothu** *et al.,* "Poly(3-hexylthiophene) Based Block Copolymers Prepared by "Click" Chemistry", *Macromolecules,* vol. 41, pp. 7033-7040, 2008 **(Impact Factor 5.91, 160 citations)**.

Book Chapters:

7. Synthetic polymer hydrogels, Dr Anitha C. Kumar and **Dr Harikrishna Erothu**, ***Book chapter*** *of Biomedical Applications of Polymeric Materials and Composites* **2016**, **Wiley-VCH publishers, Germany** edited by Prof. Raju Francis and Prof. D. Sakthi Kumar.
8. Hydrophilic Polymers, **Dr Harikrishna Erothu** and Dr Anitha C. Kumar, ***Book chapter*** *of Biomedical Applications of Polymeric Materials and Composites* **2016**, **Wiley-VCH publishers, Germany** edited by Prof. Raju Francis and Prof. D. Sakthi Kumar.