Centre of Excellence in Embedded Systems and IoT

Department of Electronics and Communication Engineering
Koneru Lakshmaiah Education Foundation

Salient Features:-

➢ Innovative Research and Development
➢ Cross-disciplinary Collaboration
➢ Industry Engagement and Technology Transfer

The Centre of Excellence in Embedded systems and Internet of Things (IoT) offers great potential to design new or upgrade existing products for a wide range of applications. Not only commercial products will benefit from new IoT innovations, but also industrial applications and systems. Research focus on advanced embedded systems design, sensors and sensor networks, Edge Computing and Fog Computing, Security and Privacy in IoT, Applications in Smart Cities, Healthcare, and Industry 4.0. Our aim is to transfer knowledge and research results to our cooperation partners, supporters, and researchers. Centre is a unique collaborative workspace where IoT enthusiasts can meet to discuss ideas, share expertise, work together on projects, get access to a library of equipment & components, build products, launch start-ups, and generally have fun bringing IoT to life.

CoE ESI Research laboratory provides extensive hands-on to design various embedded system and exposes with the necessary hardware, software, and tools for embedded systems and IoT development. Our state-of-the-art infrastructure includes advanced embedded systems development platforms, IoT prototyping and testing environments, high-performance computing clusters, simulation, and modelling tools, IoT security analysis.

- The team of researchers, including experts in electrical engineering, computer science, data science, and related fields, this interdisciplinary research hub brings together experts, fosters collaboration, and addresses the challenges and opportunities presented by these rapidly evolving technologies.
- Partnerships with industry stakeholders, including technology companies, manufacturers, and IoT solution providers. Collaboration can bring real-world insights, funding, and potential applications for your research.
- Undertake diverse research projects to explore different aspects of Embedded Systems and IoT, balance fundamental research with applied projects that address real-world challenges.
- Serves as a flare for transformative research, innovation, and collaboration, driving advancements that shape the future of connected systems and contribute to societal well-being.

List of Publications

S.No	Authors	Title	Year	Source title
1	Rajaboina R.K., Khanapuram U.K., Vivekananthan V., Khandelwal G., Potu S., Babu A., Madathil N., Velpula M., Kodali P.	Crystalline Porous Material-Based Nanogenerators: Recent Progress, Applications, Challenges, and Opportunities	2024	Small
2	Raja Gopal S., Prabhakar V.S.V.	Intelligent edge based smart farming with LoRa and IoT	2024	International Journal of System Assurance Engineering and Management
3	Rajeswari, Kumar N.V., Suresh K.M., Kumar N.S., Sravani K.G.	IoT-based smart home security alert system for continuous supervision	2024	Machine Learning Techniques for VLSI Chip Design
4	Elamaran E., Murugaveni S., Jyothi S., Prabhu M.R., Chitra M.P., Talasila V.	A novel approach of low complexity distributed UA algorithm is used for traffic load balancing and interference in next generation networks	2024	Optical and Quantum Electronics
5	Prasath J.S., Shyja V.I., Chandrakanth P., Kumar B.K., Raja Basha A.	An optimal secure defense mechanism for DDoS attack in IoT network using feature optimization and intrusion detection system	2024	Journal of Intelligent and Fuzzy Systems
6	Babu A., Boddu S.B.	BERT-Based Medical Chatbot: Enhancing Healthcare Communication through Natural Language Understanding	2024	Exploratory Research in Clinical and Social Pharmacy
7	Pydi B., Prabu A.V., Mukherjee A., Jain D.K., Chand S.R., Prashanth N.A.	An improved low-carbon intelligent agriculture system with energy optimization principles using wireless IoT environment	2024	Transactions on Emerging Telecommunications Technologies
8	Goswami C., Tamil Selvi P., Sreenivas V., Seetha J., Kiran A., Talasila V., Maithili K.	Securing healthcare big data in industry 4.0: cryptography encryption with hybrid optimization algorithm for IoT applications	2024	Optical and Quantum Electronics

9	Chithaluru P., Al-Turjman F., Dugyala R., Stephan T., Kumar M., Dhatterwal J.S.	An enhanced consortium blockchain diversity mining technique for IoT metadata aggregation	2024	Future Generation Computer Systems
10	Paidipati K.K., Kurangi C., J U., Reddy A.S.K., Kadiravan G., Shah N.H.	Wireless sensor network assisted automated forest fire detection using deep learning and computer vision model	2024	Multimedia Tools and Applications
11	Joteppa S., Balraj S.K., Cheruku N., Singasani T.R., Gundu V., Koithyar A.	Designing a Smart IoT Environment by Predicting Chronic Kidney Disease Using Kernel Based Xception Deep Learning Model	2024	Revue d'Intelligence Artificielle
12	Roy P.P., Teju V., Kandula S.R., Sowmya K.V., Stan A.I., Stan O.P.	Secure Healthcare Model Using Multi-Step Deep Q Learning Network in Internet of Things	2024	Electronics (Switzerland)
13	Suresh S.S., Prabhu V., Parthasarathy V., Senthilkumar G., Gundu V.	Intelligent data routing strategy based on federated deep reinforcement learning for IOT-enabled wireless sensor networks	2024	Measurement: Sensors
14	Krishna H.V., Sekhar K.R.	Enhancing security in IIoT applications through efficient quantum key exchange and advanced encryption standard	2024	Soft Computing
15	Harihara Gopalan S., Vignesh V., Udaya Suriya Rajkumar D., Velmurugan A.K., Deepa D., Dhanapal R.	Fuzzified swarm intelligence framework using FPSOR algorithm for high-speed MANET- Internet of Things (IoT)	2024	Measurement: Sensors
16	Prakash N., Vignesh J., Ashwin M., Ramadass S., Veeranjaneyulu N., Athawale S.V., Ravuri A., Subramanian B.	Enabling secure and efficient industry 4.0 transformation through trust-authorized anomaly detection in cloud environments with a hybrid AI approach	2024	Optical and Quantum Electronics
17	Ch S., K U., Yadav R.K., Sagar K.V.D., N.P D., Sharma P.	IoT sensor data retrieval and analysis through cloud environment for effective power management	2024	Measurement: Sensors

18	Anuhya Ardeti V., Ratnam Kolluru V., Routray S., Omkar Lakshmi Jagan B., Kishore Kumar A., Ramachandran R., Hossain M.A., Nabih Zaki Rashed A.	Development of real time ECG monitoring and unsupervised learning classification framework for cardiovascular diagnosis	2024	Biomedical Signal Processing and Control
19	Mubarakali A., Samsudeen S., Alkhayyat A., Alfurhood B.S., Haritha D., Rani D.R., Karthick M.	Optimized flexible network architecture creation against 5G communication-based IoT using information-centric wireless computing	2024	Wireless Networks
20	Ramesh D., Rizvi N., Rao P.C.S., Sundararajan E.A., Mondal K., Srivastava G., Qi L.	Improved Chemical Reaction Optimization With Fitness-Based Quasi-Reflection Method for Scheduling in Hybrid Cloud-Fog Environment	2024	IEEE Transactions on Network and Service Management
21	Sravanthi G., Moparthi N.R.	Dual Interactive Wasserstein Generative Adversarial Network optimized with arithmetic optimization algorithm-based job scheduling in cloud-based IoT	2024	Cluster Computing
22	Chandol M.K., Kameswara M.R.	Fr-ROA: trust-aware routing using fractional remora optimisation algorithm for secure communication in IoT	2024	International Journal of Bio-Inspired Computation
23	Kumar S., Ranjan S., Kanjalkar J., Misra Y., Bhupati, Dublish M.	Meta-heuristic Black Widow Optimization Algorithm for Solving M Connected Coverage in Internet of Things	2024	International Journal of Intelligent Systems and Applications in Engineering
24	Ashwin M., Naidu R.C.A., Ramamoorthy R., Kumar E.S.	IoT-Based Smart Wearable Devices Using Very Large Scale Integration (VLSI) Technology	2024	Lecture Notes in Networks and Systems
25	Singamaneni K.K., Budati A.K., Bikku T.	An Efficient Q-KPABE Framework to Enhance Cloud-Based IoT Security and Privacy	2024	Wireless Personal Communications

26	Deepak, Gulia P., Gill N.S., Yahya M., Gupta P., Shukla P.K., Shukla P.K.	Exploring the Potential of Blockchain Technology in an IoT-Enabled Environment: A Review	2024	IEEE Access
27	Kolli S., Srinivasan A., Manikandan R., Prasad S., Kumar A., Ramesh S.	Malicious data detection in IoT using deep learning approach	2024	Artificial Intelligence, Blockchain, Computing and Security - Proceedings of the International Conference on Artificial Intelligence, Blockchain, Computing and Security, ICABCS 2023
28	Aggarwal K., Sreenivasula Reddy G., Makala R., Srihari T., Sharma N., Singh C.	Studies on energy efficient techniques for agricultural monitoring by wireless sensor networks	2024	Computers and Electrical Engineering
29	Vargas J.C.J., Ghanimi H.M.A., Sivaprakash S., Amarendra M., Rajendiran M., Cotrado Lupo S.L.	Intrusion Detection in Internet of Things Systems: A Feature Extraction with Naive Bayes Classifier Approach	2024	Journal of Machine and Computing
30	Soundararajan S., Nithya B., Nithya N., Vignesh T.	Block chain espoused adaptive multi-scale dual attention network with quaternion fractional order meixner moments encryption for cyber security in wireless communication network	2024	Wireless Networks
31	Sravanthi G., Moparthi N.R.	An efficient IoT based crop disease prediction and crop recommendation for precision agriculture	2024	Cluster Computing

32	Swapna B., Divya V.	LATENCY AWARE INTELLIGENT TASK OFFLOADING SCHEME FOR EDGE-FOG-CLOUD COMPUTING â€" A REVIEW [Ð˜Ð•Ð¢Ð•Ð›Ð›Ð•ÐšÐ¢Ð£Ð•Ð›Ð¬Ð•Ð•Ð¯ Ð¡Ð¥Ð•ÐœÐ• Ð Ð•Ð¡ÐŸÐ Ð•Ð"Ð•Ð›Ð•Ð•Ð˜Ð• Ð—Ð•Ð"Ð•Ð§ Ð¡ Ð£Ð§Ð•Ð¢ÐžÐœ Ð—Ð•Ð"Ð•Ð Ð–Ð•Ðš Ð'Ð«Ð§Ð˜Ð¡Ð›Ð•Ð•Ð˜Ð™ Ð' EDGE-FOG-CLOUD â€" ÐžÐ'Ð—ÐžÐ]	2024	Informatics and Automation
33	Venkatesh Kumar C., Chaturvedi A., Arvin Tony A., Srinivas P.V.V.S., Ranjit P.S., Rastogi R., Arun M.R., Rajaram A.	AI-IOT-Based Adaptive Control Techniques for Electric Vehicles	2024	Electric Power Components and Systems
34	Alagarsamy S., Nagarajan V., Devi M.M.Y.	OMIBC: optimal modified identity-based cryptography for signcryption and private key extraction using fuzzy model	2024	Wireless Networks
35	Somula R., Cho Y., Mohanta B.K.	SWARAM: Osprey Optimization Algorithm-Based Energy-Efficient Cluster Head Selection for Wireless Sensor Network-Based Internet of Things	2024	Sensors
36	Deepa A.R., Hoang Q.-T., Bui V.-T., Tran D.-T., Ramaswamy V., Sheela C.J.J., Chowdhury S., Tran D.-N.	GPRS Based Health Monitoring System	2024	Lecture Notes in Networks and Systems
37	Kanchana S., Rajan D., Mahaveerakannan R., Sagar K.V.D., Subramanian P., Rajakumar B.	Predictive Maintenance Model Using Hybrid Procedure of Improved Quantum Cat Swarm Optimisation for Asset Management in Industry 4.0	2024	Lecture Notes in Networks and Systems

38	Shukla P.K., Pandit S.V., Gandhi C., Alrizq M., Alghamdi A., Shukla P.K., Venkatareddy P., Rizwan A.	Effective privacy preserving model based on adversarial CNN with IBOA in the social IoT systems for CEC	2024	International Journal of Communication Systems
39	Gullapalli H.S.S., Gunnam D.L., Popuri G.K., Anumandla K.K., Razia S.	Implementation of Secure Health Care Application Using IoT	2024	Internet of Things
40	Aruna Sri P.S.G., Kiran Kumar K., Prasad B.B.V.S.V., Vijay Kumar G.	IoT-Based Smart Irrigation System	2024	Internet of Things
41	. R A.S., Priya G., Nishanth S., Sai P., Kumar V.	Smart IoT-Based Greenhouse Monitoring System	2024	Internet of Things
42	Harshitha A., Manikanta Uma Srinivas C., Eswar Sai M., Kommuri K., Gopi Krishna P.	Development of Safety Monitoring for an IoT-Enabled Smart Environment	2024	Internet of Things
43	Santhosh C., Kanakaraja P., Kumar M.R., Sravani C.H.S., Ramjee V., Asish Y.	IoT-Enabled Patient Assisting Device Using Ubidots Webserver	2024	Internet of Things
44	Bhupati C., Rajasekhar J., Mohan Kumar T., Nagendra C., Bhanu Chand A.	Air- and Sound-Quality Monitoring with Alert System Using Node MCU	2024	Internet of Things
45	Miller P.S., Reddy B.S.B., Reddy M.G., Sridhar M., Bitra S.K.	Automatic Water Irrigation System Using IoT	2024	Internet of Things
46	Padma Y., Sailaja M., Razia S., Hussain M.A.	Agricultural Monitoring and Control of a System Using Smart IoT Devices	2024	Internet of Things
47	Moyeenudin H.M., Bindu G., Anandan R.	Blockchain Networks for Cybersecurity Using Machine-Learning Algorithms	2024	EAI/Springer Innovations in Communication and Computing

48	Qi Q., Xu Z., Rani P.	Big data analytics challenges to implementing the intelligent Industrial Internet of Things (IIoT) systems in sustainable manufacturing operations	2023	Technological Forecasting and Social Change
49	Raghava Rao K., Naresh Kumar Reddy B., Kumar A.S.	Using advanced distributed energy efficient clustering increasing the network lifetime in wireless sensor networks	2023	Soft Computing
50	Satyanarayana P., Diwakar G., Subbayamma B.V., Phani Sai Kumar N.V., Arun M., Gopalakrishnan S.	Comparative analysis of new meta-heuristic-variants for privacy preservation in wireless mobile adhoc networks for IoT applications	2023	Computer Communications
51	Balasundaram A., Routray S., Prabu A.V., Krishnan P., Malla P.P., Maiti M.	Internet of Things (IoT)-Based Smart Healthcare System for Efficient Diagnostics of Health Parameters of Patients in Emergency Care	2023	IEEE Internet of Things Journal
52	Gopal L., Singh H., Mounica P., Mohankumar N., Challa N.P., Jayaraman P.	Digital twin and IOT technology for secure manufacturing systems	2023	Measurement: Sensors
53	Baburao D., Pavankumar T., Prabhu C.S.R.	Load balancing in the fog nodes using particle swarm optimization-based enhanced dynamic resource allocation method	2023	Applied Nanoscience (Switzerland)
54	Ardeti V.A., Kolluru V.R., Varghese G.T., Patjoshi R.K.	An overview on state-of-the-art electrocardiogram signal processing methods: Traditional to AI-based approaches	2023	Expert Systems with Applications
55	Sai M.R., Teja K.K., Sasank V.P., Kavitha M., Aravinth S.S.	Smart Home Messenger Notifications System using IoT	2023	Proceedings of the 3rd International Conference on Artificial Intelligence and Smart Energy, ICAIS 2023

56	Menon S.P., Shukla P.K., Sethi P., Alasiry A., Marzougui M., Alouane M.T.-H., Khan A.A.	An Intelligent Diabetic Patient Tracking System Based on Machine Learning for E-Health Applications	2023	Sensors
57	Gopi A., Sai Daswanth N.M.V., Aravinth S.S., Rambabu P.V.S.	Implementation of IoT Security System by Incorporating Block Chain Technology	2023	Proceedings - 2023 3rd International Conference on Smart Data Intelligence, ICSMDI 2023
58	Dash S., Padhy S., Anjali Devi S., Sachi S., Patro K.A.K.	An efficient Intra-Inter pixel encryption scheme to secure healthcare images for an IoT environment	2023	Expert Systems with Applications
59	Latha S.B., Gundavarapu M.R., Kumar N.V.S.P., Parameswari D.V.L., Reddy B.R.K.	Technology for Kisan Samanvayam: Nutrition Intelligibility of Groundnut Plant using IoT-ML Framework	2023	International Journal on Recent and Innovation Trends in Computing and Communication
60	Krishna K.S., Satish T., Mishra J.	Machine Learning-Based IOT Air Quality and Pollution Detection	2023	International Journal on Recent and Innovation Trends in Computing and Communication
61	Jhade S., Senthil Kumar V., Kuntavai T., Pandey P.S., Sundaram A., Parasa G.	An Energy Efficient and Cost Reduction based Hybridization Scheme for Mobile Ad-hoc Networks (MANET) over the Internet of Things (IoT)	2023	International Journal on Recent and Innovation Trends in Computing and Communication
62	Bommu S., M A.K., Babburu K., N S., Thalluri L.N., G V.G., Gopalan A., Mallapati P.K., Guha K., Mohammad H.R., S S.K.	Smart City IoT System Network Level Routing Analysis and Blockchain Security Based Implementation	2023	Journal of Electrical Engineering and Technology
63	Kumar Sharma D., Sreenivasa Chakravarthi D., Ara Shaikh A., Al Ayub Ahmed A., Jaiswal S., Naved M.	The aspect of vast data management problem in healthcare sector and implementation of cloud computing technique	2023	Materials Today: Proceedings

64	Kethineni K., Pradeepini G.	Intrusion detection in internet of things-based smart farming using hybrid deep learning framework	2023	Cluster Computing
65	Emmanuel A.A., Awokola J.A., Alam S., Bharany S., Agboola P., Shuaib M., Ahmed R.	A Hybrid Framework of Blockchain and IoT Technology in the Pharmaceutical Industry: A Comprehensive Study	2023	Mobile Information Systems
66	Nagaraj S., Kathole A.B., Arya L, Tyagi N., Goyal S.B., Rajawat A.S., Raboaca M.S., Mihaltan T.C., Verma C., Suciu G.	Improved Secure Encryption with Energy Optimization Using Random Permutation Pseudo Algorithm Based on Internet of Thing in Wireless Sensor Networks	2023	Energies
67	Jang Bahadur Saini D.K., Kamble S.D., Shankar R., Kumar M.R., Kapila D., Tripathi D.P., de A.	Fractal video compression for IOT-based smart cities applications using motion vector estimation	2023	Measurement: Sensors
68	Jayaprakash S., Kanthimathi T., Rathika N., Sathyanathan P., Srinivasan C.	Photovoltaic Powered Fuzzy Algorithm for IoT-Monitored Four Switch Induction Motor Drive	2023	International Conference on Self Sustainable Artificial Intelligence Systems, ICSSAS 2023 - Proceedings
69	Vellela S.S., Reddy V.L., Roja D., Rao G.R., Khader Basha S.K., Kumar K.K.	A Cloud-Based Smart IoT Platform for Personalized Healthcare Data Gathering and Monitoring System	2023	2023 3rd Asian Conference on Innovation in Technology, ASIANCON 2023
70	Awotunde J.B., Gaber T., Prasad L.V.N., Folorunso S.O., Lalitha V.L.	PRIVACY AND SECURITY ENHANCEMENT OF SMART CITIES USING HYBRID DEEP LEARNING-ENABLED BLOCKCHAIN	2023	Scalable Computing
71	Selvaraj P., Burugari V.K., Gopikrishnan S., Alourani A., Srivastava G., Baza M.	An Enhanced and Secure Trust-Aware Improved GSO for Encrypted Data Sharing in the Internet of Things	2023	Applied Sciences (Switzerland)

72	Pandiaraj S., Krishnamoorthy R., Ushasukhanya S., Ramesh J.V.N., Alsowail R.A., Selvarajan S.	Optimization of IoT circuit for flexible optical network system with high speed utilization	2023	Optical and Quantum Electronics
73	Soni M., Singh N.K., Das P., Shabaz M., Shukla P.K., Sarkar P., Singh S., Keshta I., Rizwan A.	IoT-Based Federated Learning Model for Hypertensive Retinopathy Lesions Classification	2023	IEEE Transactions on Computational Social Systems
74	Shaikh N., Kasat K., Godi R.K., Krishna V.R., Chauhan D.K., Kharade J.	Novel IoT framework for event processing in healthcare applications	2023	Measurement: Sensors
75	Rizvi N., Ramesh D., Rao P.C.S., Mondal K.	Intelligent Salp Swarm Scheduler With Fitness Based Quasi-Reflection Method for Scientific Workflows in Hybrid Cloud-Fog Environment	2023	IEEE Transactions on Automation Science and Engineering
76	Baburao D., Pavankumar T., Prabhu C.S.R.	A novel application framework for resource optimization, service migration, and load balancing in fog computing environment	2023	Applied Nanoscience (Switzerland)
77	Mamta, Veeraiah V., Gupta D.N., Kumar B.S., Gupta A., Anand R.	Prediction of Health Risk Based on Multi-Level IOT Data Using Decision Trees	2023	2023 International Conference on Sustainable Emerging Innovations in Engineering and Technology, ICSEIET 2023
78	Dabbakuti J.R.K.K., Peesapati R., Anumandla K.K.	Design and Development of Artificial Intelligence-Enabled IoT Framework for Satellite-Based Navigation Services	2023	IEEE Transactions on Geoscience and Remote Sensing
79	Esther B.P., Chandan M., Dattu V.S.N.C., Sakthivel M., Rajesh R., Sarishma, Mohanavel V.	IoT based Coal Mining Monitoring and Control	2023	Proceedings of the 2nd International Conference on Applied Artificial Intelligence and Computing, ICAAIC 2023

	Authors	Title	Year	Source
80	Sampath Kumar P., Vijayasree J., Saikumar K., Ayad Alkhafaji M., Obaid A.J., Ali Zearah S.	A Novel Advanced Algorithm in Automation of Food and Health Monitoring System using IOT	2023	2023 IEEE 8th International Conference for Convergence in Technology, I2CT 2023
81	Bhargavi M., Sinha A., Rao G.M., Bhatnagar Y., Kumar S., Pawar S.R.	Application of IoT for Proximity Analysis and Alert Generation for Maintaining Social Distancing	2023	Lecture Notes in Networks and Systems
82	Sarada K., Saikumar K., Dudi B., Alkhafaji M.A., Mohsen K.S.	Records of Patient Health Data and Medical Information Monitoring Using IOT	2023	2023 2nd International Conference for Innovation in Technology, INOCON 2023
83	Mohapatra H., Dehury M.K., Guru A., Rath A.K.	IoT-Enabled Zero Water Wastage Smart Garden	2023	EAI/Springer Innovations in Communication and Computing
84	Sharma R., Sharma R., Prabha Y.B., Rema Devi S., Saxena P., Rajasanthosh kumar T.	Iot monitoring lathe machine performance	2023	Materials Today: Proceedings
85	Ganesh K.V.B., Parimala K., Raveesha P., Samal A., Madhu Linco L.N., Verma A.	Internet of Smart Things for Smart Healthcare and Safety Management	2023	Proceedings of the 3rd International Conference on Artificial Intelligence and Smart Energy, ICAIS 2023
86	Chithaluru P., Singh A., Dhatterwal J.S., Sodhro A.H., Albahar M.A., Jurcut A., Alkhayyat A.	An Optimized Privacy Information Exchange Schema for Explainable AI Empowered WiMAX-based IoT networks	2023	Future Generation Computer Systems
87	Devarajan G.G., Nagarajan S.M., T.V. R., T. V., Ghosh U., Alnumay W.	DDNSAS: Deep reinforcement learning based deep Q-learning network for smart agriculture system	2023	Sustainable Computing: Informatics and Systems
88	Guo Y., Wang Y., Khan F., Al-Atawi A.A., Abdulwahid A.A., Lee Y., Marapelli B.	Traffic Management in IoT Backbone Networks Using GNN and MAB with SDN Orchestration	2023	Sensors

89	Karthik G.M., Kalyana Kumar A.S., Karri A.B., Jagini N.P.	Deep intelligent blockchain technology for securing IoT-based healthcare multimedia data	2023	Wireless Networks
90	Lal B., Ravichandran S., Kavin R., Anil Kumar N., Bordoloi D., Ganesh Kumar R.	IOT-BASED cyber security identification model through machine learning technique	2023	Measurement: Sensors
91	Sridhar K., Radhakrishnan P., Swapna G., Kesavamoorthy R., Pallavi L., Thiagarajan R.	A modular IOT sensing platform using hybrid learning ability for air quality prediction	2023	Measurement: Sensors
92	Jagadeesh S., Shrimali M., Prasad P.V.S.S., Maheswari K., Narendrakumar A., Koteswara Reddy G.	Automated Arrhythmia Classification using Harris Hawks Optimization with Deep Learning Model on IoT Environment	2023	Proceedings of the 3rd International Conference on Artificial Intelligence and Smart Energy, ICAIS 2023
93	Dinesh G., Pawar Y.S., Dinshi P., Soundararajan S., Husain S.S., Reddy C.V.K.	Machine Learning based Secure Data Transmission and Improvement in MANET through Internet of Things (IoT)	2023	IDCIoT 2023 - International Conference on Intelligent Data Communication Technologies and Internet of Things, Proceedings
94	Balasubramanian K., Prabu A.V., Shaik M.F., Naik R.A., Suguna S.K.	A hybrid deep learning for patient activity recognition (PAR): Real time body wearable sensor network from healthcare monitoring system (HMS)	2023	Journal of Intelligent and Fuzzy Systems
95	Bhutnal V., Moparthi N.R.	Internet of Things-Enabled Diabetic Retinopathy Classification from Fundus Images	2023	Smart Innovation, Systems and Technologies
96	Somula R., Cho Y., Mohanta B.K.	EACH-COA: An Energy-Aware Cluster Head Selection for the Internet of Things Using the Coati Optimization Algorithm	2023	Information (Switzerland)

97	Godavarthi B., Dhar M., Devi S.A., Raju S.S., Balaram A., Srilakshmi G.	Blockchain integration with the internet of things for the employee performance management	2023	Journal of High Technology Management Research
98	Babu E.S., Rao M.S., Swain G., Nikhath A.K., Kaluri R.	Fog-Sec: Secure end-to-end communication in fog-enabled IoT network using permissioned blockchain system	2023	International Journal of Network Management
99	Venkata Sowmya K., Rama Sastry J.K.	Improving the performance of heterogeneous IoT networks through multi-stage and parallel computing systems	2023	Scientia Iranica
100	Subrahmanyam V., Kumar S., Srivastava S., Bist A.S., Sah B., Pani N.K., Bhambu P.	Optimizing horizontal scalability in cloud computing using simulated annealing for Internet of Things	2023	Measurement: Sensors
101	Agrawal M., Moparthi N.R.	An efficient multiple-word embedding-based cross-domain feature extraction and aspect sentiment classification	2023	Measurement: Sensors
102	Sneha S., Malik P., Das S., Inthiyaz S.	Long-Range Technology-Enabled Smart Communication: Challenges and Comparison	2023	Journal of Circuits, Systems and Computers
103	Padma Vijetha Dev B., Venkata Prasad K.	An Adaptive Lightweight Hybrid Encryption Scheme for Securing the Healthcare Data in Cloud-Assisted Internet of Things	2023	Wireless Personal Communications
104	Sastry J.K.R., Ch B., Budaraju R.R.	Implementing Dual Base Stations within an IoT Network for Sustaining the Fault Tolerance of an IoT Network through an Efficient Path Finding Algorithm	2023	Sensors
105	Saikumar K., Rao K.S., Baza M., Rasheed A., Hanuman A.S., Obaid A.J.	A Lite-SVM Based Semantic Search Model for Bigdata Analytics in Smart Cities	2023	International Symposium on Wireless Personal Multimedia Communications, WPMC

106	Mir A., Sankar M., Kafila K., Akram S.V., Devi D.P., Barthwal S.	An Investigation Using Structural Equation Modelling on Customer Adoption of Internet of Things Assistance	2023	2023 3rd International Conference on Advance Computing and Innovative Technologies in Engineering, ICACITE 2023
107	Sharanya C., Brahma Rao K.B.V., Rohith Bhat C., Veerraju M.S., Thirupathi V., Taqui S.N., Ganeshan P., Ouladsmane M., Kalam M.A.	Solar Powered IoT Sensors to Increase the Network Longevity	2023	Electric Power Components and Systems
108	Rao K.V.G., Kumar M.K., Goud B.S., Krishna D., Bajaj M., Saini P., Choudhury S.	IOT-Powered Crop Shield System for Surveillance and Auto Transversum	2023	2023 IEEE 3rd International Conference on Sustainable Energy and Future Electric Transportation, SeFet 2023
109	Gampa S.H., Yellamma P., Ganta V., Siram C., Rohith Sai Kamal A., Brahma Rao K.	A Review on Smart Home Automation System using IoT with Cloud Computing	2023	2023 4th International Conference on Electronics and Sustainable Communication Systems, ICESC 2023 - Proceedings
110	Rakesh S., Jeyageetha K., Nishant S., Nageswari D., Prakash R.B.R., Mary S.S.C.	Machine Learning and Internet of Things-based Driver Safety and Support System	2023	Proceedings of the 8th International Conference on Communication and Electronics Systems, ICCES 2023
111	Kalidindi A., Arrama M.B.	Enhancing IoT Security with Deep Stack Encoder using Various Optimizers for Botnet Attack Prediction	2023	International Journal of Advanced Computer Science and Applications
112	Manjunatha B.N., Chandan M., Kottu S., Rappai S., Hema P.K., Singh Rawat K., Sarkar S.	A Successful Spam Detection Technique for Industrial IoT Devices based on Machine Learning Techniques	2023	Proceedings of the 2nd International Conference on Applied Artificial Intelligence and Computing, ICAAIC 2023
113	Siddhartha C.S., Kalyan G.P., Dinesh T.V.N., Vadlamudi D., Thatavarti S.	Enhancing Home Security: user Authentication Techniques for Home Automation	2023	6th International Conference on Inventive Computation Technologies, ICICT

				2023 - Proceedings
114	Burugari V.K., Kanmani P., Thariq Hussan M.I., Selvaraj P.	Obstacle detection and navigation support Using SMART Shoe for Visually Impaired Person	2023	2023 International Conference on Computer Communication and Informatics, ICCCI 2023
115	Kalyani B.J.D., Prashanth K.B., Sai K.P., Sitharamulu V., Gole S.B.	Analysis and Detection of Fraudulence Using Machine Learning Practices in Healthcare Using Digital Twin	2023	Lecture Notes in Electrical Engineering
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117	Ramesh N.V.K., Alaparthi A., Sai Charan G., Settipalli R., Velga P., Vani B.V.	Empowering Women's Safety with smart IoT Technology: A Robust Protection System	2023	ICSPC 2023 - 4th International Conference on Signal Processing and Communication
118	Vatambeti R., Krishna E.S.P., Karthik M.G., Damera V.K.	Securing the medical data using enhanced privacy preserving based blockchain technology in Internet of Things	2023	Cluster Computing
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122	Sandya V., Baligeri V., Lal B., Petli V., Pradeep Kumar S.	Deep Learning based Brain Tumor Detection with Internet of Things	2023	2023 IEEE International Conference on Integrated Circuits and Communication Systems, ICICACS 2023
123	Petikam S., De Castro Dantas Sales F., Suma S., Gonzales J.L.A., Joshi K., Pant B.	Image Processing with Intelligence System Using Sensing in Cyber Security	2023	2023 International Conference on Artificial Intelligence and Smart Communication, AISC 2023
124	Yadav D., Raman R., Gangodkar D., Joshi S.K., Sreedevi B., Prasad C.R.	An implementation of Wireless Mesh Routing Protocol system against Dos attacks in IoT-based Assistance system	2023	2023 International Conference on Artificial Intelligence and Smart Communication, AISC 2023
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127	Kumari N.M.J., Rao N.T., Bhattacharyya D.	Smart Irrigation and Cultivation Recommendation System for Precision Agriculture Driven by IoT	2023	Machine Intelligence, Big Data Analytics, and IoT in Image Processing: Practical Applications
128	Bhola A., Srivastava S., Noonia A., Sharma B., Narang S.K.	A Status Quo of Machine Learning Algorithms in Smart Agricultural Systems Employing IoT-Based WSN: Trends, Challenges and Futuristic Competences	2023	Machine Intelligence, Big Data Analytics, and IoT in Image Processing: Practical Applications
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132	Chandol M.K., Kameswara Rao M.	Blockchain-based cryptographic approach for privacy enabled data integrity model for IoT healthcare	2023	Journal of Experimental and Theoretical Artificial Intelligence
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134	Antonius F., Sekhar J.C., Sreenivasa Rao V., Pradhan R., Narendran S., Fernando Cosio Borda R., Silvera-Arcos S.	Unleashing the power of Bat optimized CNN-BiLSTM model for advanced network anomaly detection: Enhancing security and performance in IoT environments	2023	Alexandria Engineering Journal
135	Anu P., Renjith P.N., Agarkar A.A., Kousalya A., Sonker A., Gundu V.	Intelligent root cause detection in Industry 4.0: a secure cross-validation of blockchain architecture for product failure checker	2023	Optical and Quantum Electronics
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141	Sivaraju S.S., Mani V., Umaamaheshvari A., Divya Banu P., Anuradha T., Srithar S.	An attack resistant physical unclonable function smart optical sensors for internet of things for secure remote sensing	2023	Measurement: Sensors
142	Anitha S., Padma T., Vallimayil V.	A generic resource augmentation architecture for efficient mobile communication	2023	Concurrency and Computation: Practice and Experience
143	Pillalamarri S.S., Saikumar K., Hussein M.J., Ettyem S.A., Ali H.M.A., Ahammad S.H.	Recognition of Spam Balancing Using IoT With Machine Learning Technique	2023	AIP Conference Proceedings
144	Sree R.G., Reddy A.V., Reddy N.K.	Internet of Things: Applications in Healthcare Industry	2023	AIP Conference Proceedings
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149	Kumar K.K., Srikanth B., Kasiviswanadham Y., Subbarao C.D.V., Indira D.N.V.S.L.S., Pratap N.L.	RETRACTED ARTICLE: The importance of light-weight encryption cipher in restricted IoT systems to make intelligent technology safer for devices	2023	Applied Nanoscience (Switzerland)
150	Chandra Sekar P., Kumar K.S., Bindu G., Kumar R.D., Pradeep Kumar S.	Sparse Autoencoder with SGReLU Activation Based Network Intrusion Detection System	2023	2023 International Conference on Evolutionary Algorithms and Soft Computing Techniques, EASCT 2023
151	Navale G.S., Madala R., Managuli M., Jayalakshmi N., Kadiravan G., Rawat R.	Research and Innovation in Next Generation Security and Privacy in Industry 5.0 lot	2023	Proceedings of International Conference on Contemporary Computing and Informatics, IC3I 2023
152	Kumar B.V., Baby Rani N., Krishna Prakash R., Adusumilli M., Sunil Kumar V.	Design and Development of Cloud and IoT-Based Monitoring System for Environmental Health and Safety in Homes	2023	2023 International Conference on Evolutionary Algorithms and Soft Computing Techniques, EASCT 2023

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155	Yedukondalu G., Rajesh N., Kumar B.K., Gowd G.S., Suguna R., Gupta K.G.	Inbuilt Framework Using IoT and Computer Vision Technique for Automatic Visitor Management	2023	7th International Conference on Electronics, Communication and Aerospace Technology, ICECA 2023 - Proceedings
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158	Goswami R.G., Kumar V., Pandya D., Prasad M.S.R., Jain A., Saini A.	Analysing the Functions of Smart Security Using the Internet of Things	2023	Proceedings of International Conference on Contemporary Computing and Informatics, IC3I 2023
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161	Chandrasekaran G., Venkatesh M., Kanthimathi T., Rathika N., Sujatha S.	Electric Vehicle Based Hybrid Energy Storage System using IoT	2023	2023 2nd International Conference on Smart Technologies for Smart Nation, SmartTechCon 2023
162	Livingston L.M.M., Rajesh K.S., Ganesh E.N., Reddy E.G., Muthulekshmi M.	Fuzzy Logic Controlled Photovoltaic system with IoT Technology	2023	2023 2nd International Conference on Smart Technologies for Smart Nation, SmartTechCon 2023
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166	Karthikeyan D., Baskaran P., Somasundaram S.K., Sathya K., Srithar S.	Smart COVIDNet: designing an IoT-based COVID-19 disease prediction framework using attentive and adaptive-derived ensemble deep learning	2023	Knowledge and Information Systems

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171	Saini D.K.J.B., Ahammad S.H., Das P., Bhatt A., Malusare P., Pande S.D.	Grading of Fruit Ripeness Using Arduino in IoT	2023	2023 International Conference on Sustainable Emerging Innovations in Engineering and Technology, ICSEIET 2023
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177	Kalidindi A., Arrama M.B.	Botnet attack detection in IoT using hybrid optimisation enabled deep stacked autoencoder network	2023	International Journal of Bio-Inspired Computation
178	Rajkumar R., Ramineni C., Kumar D.S., Kaliappan S., Farook S., Ramaian C.P.	Energy Storage System Control Scheme based on Pretrained Adaptive Dynamic Programming for PSOs	2023	7th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud), I-SMAC 2023 - Proceedings
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180	Sudhakar K.N., Devadarshini P.T., Ramu K.N., Deshveer, Suryanarayana N.V.S., Kanakala V.R.	IoT-based Smart Home Automation Systems for Energy Conservation	2023	7th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud), I-SMAC 2023 - Proceedings
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184	Usharani S., Rajakumaran G., Nandam A.D., Ibrahim M.	Integration Framework Solution for Healthcare Monitoring	2023	Journal of Physics: Conference Series
185	Vivekananthan V., Arunmetha S., Srither S.R., Babu P.S.S., Hajra S., Dudem B.	A Highly Wearable Single-electrode Mode Triboelectric Nanogenerator Made of Flexible Polyvinylidene Fluoride Transparent Film for Muscular Motion Monitoring	2023	Journal of Physics: Conference Series
186	Swathi K.S., Vijayalakshmi N., Prasanna J.L., Kumar M.R., Aswin Kumer S.V., Santhosh C.	Design of non-contact hand spray for smart sanitization using IoT	2023	Journal of Physics: Conference Series
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188	Vanipriya B., Janarthanan V., Bhargavi M., Rajesh V., Boopathiraja K.P., Satyanarayana Tallapragada V.V.	Comparison of AI Concepts, Machine Learning Hybrid Approach and IoT in Monitoring Smart Home Appliances in IDS	2023	Proceedings of the 4th International Conference on Smart Electronics and Communication, ICOSEC 2023
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193	Anish K., Gavara K., Ram.k M., Priya.s A., Kumar A.D., Velmurugan A.K.	Survey on Smart Helmet Based on IoT for Detection of Road Accidents	2023	Proceedings - 2023 3rd International Conference on Pervasive Computing and Social Networking, ICPCSN 2023
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195	Vimala S., Karthika G., Geetha C., Reddy R.V.K., Ganesh C.S.S., Ganesh R.K.	Telemedical Robot Using IoT with Live Supervision and Emergency Alert	2023	Proceedings - 2023 3rd International Conference on Pervasive Computing and Social Networking, ICPCSN 2023
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