

Research
Department of CSE
Year 2024 -2025

Total number of publications

Sl.No	Year	Total no of publication
1	2024-2025(till date)	68

Journal

Sl.No	Name of Faculty	Title	Year	Publication details
1	Velukutty K.N.K., Sundararajan D., Krishnappa M.R., Angappan S.K., Premalatha M., Sivaraju S.S., Usha S.	Enhancing energy management and power quality in grid-connected photovoltaic systems through ESS and STATCOM integration	May-25	International Journal of Advanced Manufacturing Technology
2	Ramkumar G., Mouleeswaran S.K., Priyadarshini R., Muppala C., Praveenkumar T.R., Giri J., Khan S.	Enhancing thermal management in multi- zone air conditioning system using novel hybrid bat-cuckoo search optimization methods: A case study of a shopping mall	Jun-25	Journal of Building Engineering
3	Swasthika Jain T.J., Sardar T.H., Sammeda Jain T.J., Guru Prasad M.S., Naresh P.	Facial Expression Analysis for Efficient Disease Classification in Sheep Using a 3NM-CTA and LIFA-Based Framework	May-25	IETE Journal of Research
4	Ahmed M.Z., Visumathi J., Yechuri P.K., Swarna A., Surekha G., Naresh P.	Leveraging explainable ai to improve breast cancer detection rate using transfer learning with deep recurrent convolutional neural networks	Jan-25	Journal of Theoretical and Applied Information Technology
5	Sudheesh K.V., Santhosha S.B., Puttegowda K.	Robust Partial Image Security Through Chaotic Map and Non-adaptive Techniques	May-25	SN Computer Science

6	Gayatri N., Chaithanya D., Raghavendran Ch.V., Malepati P., Sunder Reddy K.S., Kumar M.K., Naresh P.	SEER: secured energy efficient routing algorithms for attacks in wireless sensor networks	Jan-25	Journal of Theoretical and Applied Information Technology
7	Sudha G., Mohankumar N., Thahniyath G., Thimmarayan R.	EEG signal analysis for classifying alzheimer's and frontotemporal dementia disorders using ensemble methods	July 25	International Journal Of Advances In Signal And Image Sciences

Conference Publication

Sl.No	Name of Faculty	Title	Year	Publication details
1	Khan M.A., Chattaraj D., Tadal S., Sardar T.H., Chourasia A., Malik P.	A Context for Human Behavior Recognition Using Facial Expression	Mar-25	IEEE International Conference on "Computational, Communication and Information Technology", ICCIT
2	Maleeha F., Divya D., Hiteshinirithika M., Badiger K.M., Rajesh T.M.	A Novel Approach for Change Detection in Agricultural Land using Satellite Generated Time Series Data	Jan-25	2024 4th Asian Conference on Innovation in Technology,
3	Senthil Kumar A., Kesavan S., Poongodi T., Nixon J.S., Nagaraj S.	A Practical Approach for License Plate Recognition for Non- Helmeted Motorcycle Riders	Jan-25	Proceedings of International Conference on Contemporary Computing and
4	Dhavalagimath S.S., Rajesh T.M., Singh R.K.	Advancements in Image Deblurring and Performance Metrics Using Deep Learning Technique	Mar-25	Lecture Notes in Networks and Systems
5	Dharmendra D.P., Benaka Santhosha S., Vishwas D.B., Santhosh M., Deepak H.G.	AI Based Acute Pain Detection: Insights Through Facial Expression Analysis Using CNN	Mar-25	Proceedings of the 2024 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical
6	Namitha T.S., Rai B.K., Pallavi P., Pavana R., Pooja M.	Blockchain Based Health Insurance System	May-25	ICDT 2025 - 3rd International Conference on Disruptive
7	Bawgikar P., Devaiah K.J., Yogdeep G., Revathi V.	Decentralized Healthcare Ledger System on Hedera with Deep Learning Analytics	Jan-25	Lecture Notes in Networks and Systems

8	Raj A., Jena J.J., Ghosh D., Jain S., Sardar T.H., Gourisaria M.K.	Early-Stage Diabetes Risk Prediction using Machine Learning Techniques	Mar-25	3rd International Conference on Intelligent Data Communication Technologies and
9	Sardar T.H., Dar S.A., Jaiswal J., Guru Prasad M.S., Mittal M., Kumar V.	Enhancing Security in MANETs with Deep Learning-Based Intrusion Detection	May-25	Procedia Computer Science
12	Mouleeswaran S.K., Bhuvaneswari J., Sakthi Saravanan N., Hemajothi S., Sivabalan A., Vijayakumar K.	Experimental Evaluation of Deep Learning Based Liver Cancer Identification Scheme Using Hybrid Classification Logic	Mar-25	Proceedings of the 2024 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical
13	Meena K., Vadivel A., Sardar T.H., Kotiyal A., Guru Prasad M.S., Kumar U.	Harnessing Deep Learning and Time Series Models for Accurate Global Solar Radiation Prediction	May-25	Procedia Computer Science
14	Sardar T.H., Dar S.A., Indhumathi R., Dhasmana G., Guru Prasad M.S., Kumar P.	Integrating Blockchain and Quantum Key Exchange with Deep Learning for Enhanced Medical Data	May-25	Procedia Computer Science
15	Thoppil I.J., Saha J., Gopu A.	Leveraging Social Media Analytics for Student Project Allocation Using Deep Learning	May-25	Procedia Computer Science
16	Ravikumar C.P., Sasikala N.	Predictive Modeling for Engineering Student Performance Forecasting and Course Correction	Jan-25	2024 IEEE International Conference on Teaching, Assessment and Learning for
17	Mala B.A., Prajwal B.R., Navtej S., Hegde N.P., Pavankumar P.S., Pratham U.K.	Smart Cradle: A Secured Assistance and Monitoring System for Baby Using IoT	Jan-25	Proceedings of 5th International Conference on IoT Based Control Networks and
18	Rai B.K., Bilal Ahmed N.K., Priyadarshi A., Bej A.K., Vivek S.H.	VaLiDiFy - Certificate Validation using Blockchain and AI	Mar-25	2024 IEEE 4th International Conference on ICT in Business Industry and Government, ICTBIG 2024
19	Namitha T.S., Rai B.K., Pallavi P., Pavana R., Pooja M.	Blockchain Based Health Insurance System	Jun-25	ICDT 2025 - 3rd International Conference on Disruptive

20	Dhavalagimath S.S., Rajesh T.M., Singh R.K.	Improving Image Restoration with a Hybrid Inverse and Median Filtering Approach	Jun-25	Lecture Notes in Networks and Systems
21	Nair R.R., Babu T., Kishore S., Pavithra K., Sumana S.G.	Improving Alpha-Beta Pruning Efficiency in Chess Engines	Jun-25	2nd International Conference on IT Innovations and Knowledge Discovery, ITIKD 2024
22	Babu T., Nair R.R., Rajesh M.T., Kishore S.	Secure Data Embedding in Digital Images: Enhancing Covert Communication with LSB- Based Techniques	Jun-25	Procedia Computer Science
23	Kiruthika M., Poongodi T.	Investigation of Security Attacks in IoMT Devices and Federated Learning as a Mitigation Strategy	Jun-25	Procedia Computer Science
24	Nair R.R., Babu T., Kishore S., Vishal S., Mahapatra S.	Enhancing Stock Price Prediction Through Integration of Astrological and Astronomical Data using XGBoost	Jun-25	Procedia Computer Science
25	Thoppil I.J., Saha J., Gopu A.	Leveraging Social Media Analytics for Student Project Allocation Using Deep Learning	Jun-25	Procedia Computer Science
26	Sardar T.H., Dar S.A., Jaiswal J., Guru Prasad M.S., Mittal M., Kumar V.	Enhancing Security in MANETs with Deep Learning-Based Intrusion Detection	Jun-25	Procedia Computer Science
27	Meena K., Vadivel A., Sardar T.H., Kotiyal A., Guru Prasad M.S., Kumar U.	Harnessing Deep Learning and Time Series Models for Accurate Global Solar Radiation Prediction	Jun-25	Procedia Computer Science
28	Sardar T.H., Dar S.A., Indhumathi R., Dhasmana G., Guru Prasad M.S., Kumar P.	Integrating Blockchain and Quantum Key Exchange with Deep Learning for Enhanced Medical Data	Jun-25	Procedia Computer Science
29	Nair R.R., Babu T., Sumana S.G., Monish L.	An Integrated Arduino Solution for Comprehensive Gas Leak Detection and Response	Jun-25	2nd International Conference on Signal Processing, Communication, Power and Embedded Systems, SCOPES
30	Salankimatt V., Renuka Devi M.N., Yashas M., Vivek D.K., Vijay Kumar K.S.	Satellite Based Geographical Poverty Prediction	July 25	Proceedings - 1st International Conference on Frontier Technologies and Solutions, ICFTS

31	Pradeep Ghantasala G.S., Vidyullatha P., Rajesh Sharma R., Ananthanagu U., Sungheetha A., Dilip K.	Towards a Healthier Online Environment: Machine Learning for Detecting and Addressing Cyberbullying Comments	July 25	International Conference on Parallel, Distributed and Grid Computing, PDGC
32	Manasa M., Kulkarni P.	Advancement in Deep Learning Methods and Performance Metrics for Underwater Image Enhancement	July 25	Lecture Notes in Networks and Systems

Book Chapter\ Book Publication

Sl.No	Name of Faculty	Title	Year	Publication details
1	Uvaneshwari M., Nandagopal K., Shrivastava P., Senthil K.A., Balakrishna C., Senthamil Selvan R.	Enhancing big data customer sentiment analysis with BERT-BiLSTM	Jan-25	Elevating Brand Loyalty With Optimized Marketing Analytics and AI
2	Sahana D.S., Sardar T.H., Sureddy S.	Future Intelligent Vehicles: Research Roadmaps, Open Issues, and Key Challenges	May-25	Springer Tracts on Transportation and Traffic
3	Usman M.M., Fahim M.F.H., Al Mahedi Hassan M., Sardar T.H., Adhoni Z.A., Gourisaria M.K.	Harnessing IoT and Machine Learning for Sustainable, Smart Urban Environments	May-25	Springer Tracts on Transportation and Traffic
4	Al Mahedi Hassan M., Fahim M.F.H., Usman M.M., Sardar T.H., Mondal M.A., Khan M.A.	Optimisation Strategies for Next-Generation AI, ML, and IoT Applications	May-25	Springer Tracts on Transportation and Traffic
5	Bose A., Sardar T.H., Mridha S.K.	Recent Advancements and Future Perspectives of Dynamic Fuzzy Controllers for Smart Traffic Signaling	May-25	Springer Tracts on Transportation and Traffic
6	Fahim M.F.H., Usman M.M., Al Mahedi Hassan M., Sardar T.H., Bindu Madavi K.P., Venkatachalam N.	Revolutionizing Road Transportation: The Role of Artificial Intelligence in Smart and Efficient Systems	May-25	Springer Tracts on Transportation and Traffic
7	Siddharth D., Saini D.K.J.B., Dilip K., Dwivedi U.	Simulation of Biological Structures Using Generative Artificial Intelligence	May-25	Microorganisms for Sustainability

8	Bindu Madavi K.P., Krishna Sowjanya K., Sardar T.H., Reddy M.S., Nimmalapudi S.R.	Smart Traffic Systems: Revolutionizing Road Transport with AI and Image Processing	May-25	Springer Tracts on Transportation and Traffic
9	Venkatachalam N., Manoharan A.P.V., Ravichandran K., Aravinth P.V., Sardar T.H.	Speed Breaker and Vehicle Accident Detection with Alert Sensors	May-25	Springer Tracts on Transportation and Traffic
12	Thoppil I.J., Ashtalakshmi K., Chundi R.	Transforming healthcare: Leveraging machine learning algorithms for diagnosis, treatment, and management	Mar-25	Bioinformatics and Beyond: AI Applications in Healthcare
13	Sahana D.S., Sardar T.H., Sureddy S.	Future Intelligent Vehicles: Research Roadmaps, Open Issues, and Key Challenges	Jun-25	Springer Tracts on Transportation and Traffic
14	Venkatachalam N., Manoharan A.P.V., Ravichandran K., Aravinth P.V., Sardar T.H.	Speed Breaker and Vehicle Accident Detection with Alert Sensors	Jun-25	Springer Tracts on Transportation and Traffic
15	Siddharth D., Saini D.K.J.B., Dilip K., Dwivedi U.	Simulation of Biological Structures Using Generative Artificial Intelligence	Jun-25	Microorganisms for Sustainability
16	Usman M.M., Fahim M.F.H., Al Mahedi Hassan M., Sardar T.H., Adhoni Z.A., Gourisaria M.K.	Harnessing IoT and Machine Learning for Sustainable, Smart Urban Environments	Jun-25	Springer Tracts on Transportation and Traffic
17	Bose A., Sardar T.H., Mridha S.K.	Recent Advancements and Future Perspectives of Dynamic Fuzzy Controllers for Smart Traffic Signaling	Jun-25	Springer Tracts on Transportation and Traffic
18	Al Mahedi Hassan M., Fahim M.F.H., Usman M.M., Sardar T.H., Mondal M.A., Khan M.A.	Optimisation Strategies for Next- Generation AI, ML, and IoT Applications	Jun-25	Springer Tracts on Transportation and Traffic
19	Fahim M.F.H., Usman M.M., Al Mahedi Hassan M., Sardar T.H., Bindu Madavi K.P., Venkatachalam N.	Revolutionizing Road Transportation: The Role of Artificial Intelligence in Smart and Efficient Systems	Jun-25	Springer Tracts on Transportation and Traffic

20	Bindu Madavi K.P., Krishna Sowjanya K., Sardar T.H., Reddy M.S., Nimmalapudi S.R.	Smart Traffic Systems: Revolutionizing Road Transport with AI and Image Processing	Jun-25	Springer Tracts on Transportation and Traffic
21	Rai B.K., Sharma K., Malik H.	An interactive sign language translator	Jun-25	Convergence of Population Health Management, Pharmacogenomics, and Patient-Centered Artificial Intelligence
22	Kataraki K., Vishwas D.B., Jhanjhi N.Z.	Computational intelligence in military applications with blockchain techniques	July 25	Artificial Intelligence for Military Applications with Blockchain

Patent

Sl.No	Name of the Patenter	Patent Number	Title of the patent	Year of Award of patent
1	Dr. A. Senthil Kumar , Dr.Gokulakrishnan S	202541050135	Adaptive AI-IoT Architecture for Early Detection of Health Abnormalities	2025
2	Dr.Renukadevi M N Dr.Rajesh T M Dr.Praveen Kulkarni Dr.Shaila S G	202254104461	SmartMentor: Deep learning system for classroom behaviour Intelligence and pedagogical Enhancement	May 2025
3	Dr.Rajesh T M Meenakshi	202441059550	Analysis of Metro Cities data to Address Urban Problems and Solutions for the economic development of India	2025
4	Dr. Girisha G.S , Pooja Shree H R Dr. George Fernandez. I	202441099925	FlameWatcher: Intelligent Gas Leak and Automatic Shutoff System	2025
5	Dr. Damodharan D	202541014161 A	Reinforcement learning-based ai system for adaptive smart grid optimizations	2025
6	Dr.Rajesh T M	202541009597	AI based framework for analyzing and optimizing highway route construction using satellite images	Feb 2025
7	Dr.Rajesh T M	202541044742	Vehicle Hit and Run Crime Detection System and Method Thereof	2025

8	Dr.Shivananda Reddy	20254101014506	IoT integrated Irrigation Management system for optimized advancing sustainable Agriculture	March 2025
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