



S.A. ENGINEERING COLLEGE

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

LIST OF FACULTY PUBLICATIONS

ACADEMIC YEAR 2024-25

INTERNATIONAL JOURNAL: SCI

S.No	Name of the Faculty	Papers Published			
		Title of the Paper	Name of the Journal	Month & Year of Publication	DoI
1	Dr.R.Geetha	AGBUNet: an enhanced CNN-UNET architecture for the prediction of above ground biomass using deep learning	Neural Computing and applications	Dec 2024	https://doi.org/10.1007/s00521-024-10840-9
2	Dr.R.Geetha	An efficient cyberbullying detection framework on social media platforms using a hybrid deep learning model	International Journal of Information and Computer Security	May 2025	https://doi.org/10.1504/IJICS.2025.146156
3	Dr.R.Geetha	An effective COVID-19 classification in X-ray images using a new deep learning framework	Journal of X Ray Science and Technology	Mar 2025	doi: 10.1177/08953996241290893
4	Dr.M.Anuradha	HRF-ExGB: Hybrid random forest-extreme gradient boosting for mobile edge computing	Transactions on Emerging Telecommunications Technologies	Jun 2024	https://doi.org/10.1002/ett.5010
5	Dr.M.Anuradha	Deep learning-based landmark detection and localization for autonomous robots in outdoor settings	Robotica	Apr 2025	doi:10.1017/S0263574725000219



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6	Dr.D.Hemanand	DFT insights on lead-free double perovskite $A_2(\text{Ag/In})\text{BrO}_6$ (A=Ca, Sr, Ba) phase for opto electronic applications	Computational and Theoretical Chemistry	Jan 2025	https://doi.org/10.1016/j.comptc.2025.115075
7	Dr.D.Hemanand	Design and fabrication of nanoarchitectures of rGO-decorated ZnCo_2O_4 hybrid photocatalyst for high-efficiency solar fuel generation	Mater Sci: Mater Electron (SCI)	Jan2025	https://doi.org/10.1007/s10854-025-14285-1
8	Dr.D.Chitradevi	A comprehensive evaluation of machine learning algorithms for precise energy consumption forecasting in smart homes	International Journal of Power Electronics and Drive Systems (IJPEDS)	Dec 2024	10.11591/ijpeds.v15.i4.pp2138-2144
9	Dr.D.Chitradevi	Design and implementation of internet protocol system: application for the IoT platform	International Journal of Internet Protocol Technology (SCI)	Jan 2025	https://doi.org/10.1504/IJIPT.2024.143760
10	Dr.S.Sivakumar	Secure Wireless Sensor Networks: A Weighted K-NN and RNN-based Approach for Attack Detection and Localization	Taylor and francis IETE Journal of Research	Dec-2024	https://doi.org/10.1080/03772063.2024.2436970
11	Mr.S.MuthukumaraswamyS	Energy-efficient coverage in wireless sensor networks based on stacked contractive auto encoder with Manta Ray foraging optimisation algorithm	International Journal of Mobile Communications (SCI)	Jan 2025	https://doi.org/10.1504/IJMC.2025.142969



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12	Mrs.Arumai Shiney S	Deep Learning based Gasket fault detection : A CNN approach	Scientific Reports	Feb 2025	https://doi.org/10.1038/s41598-025-85223-8
13	Mrs. M.Kavitha	Fuzzy Segmentation Of Cervical Cytology Image Using Level Set Algorithm	Inteligencia Artificial (SCI)	Apr 2025	https://doi.org/10.4114/intartif.vol28iss75pp248-259
14	Mrs.Aruna	A novel efficient data storage and data auditing in cloud environment using enhanced child drawing development optimization strategy	Network: Computation in Neural Systems	Jan 2025	https://doi.org/10.1080/0954898X.2024.2443622

FACULTY PUBLICATIONS (2024-2025) - INTERNATIONAL JOURNAL: SCOPUS

S. No	Name of the Faculty	Papers Published			
		Title of the Paper	Name of the Journal	Month & Year of Publication	DoI
1	Dr.R.Geetha	An effective review on the prediction and analysis of infectious lung diseases using machine learning algorithms	International Journal Of Bioinformatics Research And Applications	Jul 2024	https://doi.org/10.1504/IJBRA.2024.139999
2	Dr.M.Anuradha	Deep learning models-based classification of solid waste	International Journal of Internet Protocol Technology.	Jan 2025	https://doi.org/10.1504/IJIP T.2024.143756



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3	Dr.A.Antonidoss	Exploring the possibilities of integration of cyber-psychology for human behaviour in a smart city	International Journal of Information and Communication Technology	Aug 2024	https://doi.org/10.1504/IJICT.2024.140321
4	Dr.N.Thilagavathy	Fuzzy Enhanced AI Facial Recognition System for Robust and Efficient Identification	Journal of Neonatal Surgery	May 2025	https://jneonatal.org.com/index.php/jns/article/view/5822
5	Mr.A.Mani	Cryptography in the cloud: securing cloud data with encryption	International Journal of Electronic Security and Digital Forensics	Sep 2024	10.1504/IJESDF.2024.140744
6	Mrs.L.Sudha	Semantic Image Synthesis from Text: Current Trends and Future Horizons in Text-to-Image Generation	EAI Endorsed Transactions on Internet of Things	Nov 2024	https://doi.org/10.4108/eetiot.5336
7	Mrs.M.Kavitha	Automized Quick Prediction Of Skin Cancer Diagnosis By Enhanced Deep Convolutional Neural Network	Advances in Artificial Intelligence and Machine Learning in Big Data Processing	Oct 2024	10.1007/978-3-031-73065-8_24
8	Ms.R.Shobana	IoT security using deep learning algorithm: intrusion detection model using LSTM	International Journal of Electronic Security and Digital Forensics	Mar 2025	https://doi.org/10.1504/IJESDF.2025.143479
9	Mrs.S.N. Ananthi	Effective Street View Traffic Sign Detection and Recognition Using Deep Learning	Lecture Notes in Networks and Systems.	July 2024	10.1007/978-981-97-3466-5_22



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10	Mrs.NRG SreeVani	2D Photonic Crystal Nano Biosensor with IoT Intelligence	Internet of Things in Bioelectronics: Emerging Technologies and Applications	Oct 2024	https://doi.org/10.1002/9781394241903.ch6
11	Mrs.NRG SreeVani	Integrated photonic devices for cancer detection	Advances in All-optical communication	Nov 2024	https://doi.org/10.1088/978-0-7503-5623-7

FACULTY PUBLICATIONS (2024-2025)- INTERNATIONAL CONFERENCE

S.No	Name Of The Faculty	Papers Published			
		Title of the Paper	Name of the Journal/Conference	Month & Year of Publication	DoI
1	Dr.R.Geetha	Cyberbullying Detection on Social Media using a Hybrid Machine Learning Model.	2nd International Conference on Research Methodologies in Knowledge Management,Artificial Intelligence and Telecommunication Engineering	May 2025	10.1109/RMKMATE64874.2025.11042815
2	Dr.R.Geetha	Advancing Cardiovascular Monitoring: Translation and Restoration of Photoplethysmogram using Super Operational Neural Networks in 1D-CycleGAN Framework	International Conference on Communication, Computing and Energy Efficient Technologies (I3CEET)	May 2025	10.1109/I3CEET61722.2024.10993798



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3	Dr.M.Anuradha	Finding Missing Person Using Image Similarity and Euclidean Loss	4th International Conference On Internet Of Things	July 2024	DOI: 10.1063/5.0217620
4	Dr.M.Anuradha	Enhancement of Hugging face transformers for synthetic media Verification	2024 International conference on smart Technologies for Sustainable Development Goals	Nov 2024	In-Progress
5	Dr.M.Anuradha	Indian Sign language classification using transfer learning	1st International conference on computing, Sciences and communications (ICCSC-2024)	Oct 2024	10.1109/IC CSC62048.2024.10830325
6	Dr.D.Hemanand	A Robust Data Security Model Development to Maintain the Integrity of Information using Artificial Intelligence and Cyber Laws	IEEE	July 2024	DOI: 10.1109/ISCS61804.2024.1058104
7	Dr.D.Hemanand	A Novel Approach for Enhancing the Security and Performance of Wireless Sensor Networks With a Single Cluster with Multi-hop Communication	IEEE	Dec 2024	https://doi.org/10.1007/978-3-031-77799-8_1



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8	Mr.A.Mani	Detection and Classification of Brain Tumor in Magnetic Resonance Images Using CNN	Communications in Computer and Information Science	Oct 2024	https://doi.org/10.1007/978-3-031-73065-8_8
9	Mr.C.Balakrishnan	Ensemble Deep Learning Approach for Identification of DDOS Attack	Communications in Computer and Information Science	Oct 2024	https://doi.org/10.1007/978-3-031-73065-8_18
10	Mrs.V.Saraswathi	Ensemble Learning Models for Detecting Spam Over Social Networks Using RFE	Communications in Computer and Information Science	Oct 2024	https://doi.org/10.1007/978-3-031-73068-9_13
11	Mrs.V.Saraswathi	Smart Safety Helmet for Mining Workers with Environmental Monitoring and Alert System	IEEE XPLORE	Mar2025	https://doi.org/10.1109/ICAICIT64383.2024.10912178
12	Mrs.L.Sudha	Cutting-edge Facial Authentication System in Matlab (CFAS-M)	International Conference on Communication, Computing and Internet of Things	June 2024	https://doi.org/10.1109/IC3IoT60841.2024.10550320
13	Mrs.S.Arumaineshi	Estimation of Above Ground Biomass Using Machine Learning and Deep Learning Algorithms: A Review	Communications in Computer and Information Science.	Oct 2024	https://doi.org/10.1007/978-3-031-73065-8_15



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14	Mrs.S.Arumai shiney	Empowering Patient Care: A Novel Patient Drug Recommendation System Using Artificial Intelligence with Modified Learning Strategy	International Conference on Computing and Data Science	Sep 2024	10.1109/ICCDS60734.2024.10560419
15	Mrs.V.Sureka	Vehicle Insurance Claim Prediction	International Conference on Communication, Computing and Internet of Things	Oct 2024	http://dx.doi.org/10.1007/978-3-031-73068-9_12
16	Mrs.M.Kavitha	Automized Quick Prediction Of Skin Cancer Diagnosis By Enhanced Deep Convolutional Neural Network	Advances in Artificial Intelligence and Machine Learning in Big Data Processing	Oct 2024	10.1007/978-3-031-73065-8_24
17	Mrs.J.Sangeetha	Revolutionizing Image Processing: Innovations Impacts and Future Trends	International Conference on Self Sustainable Artificial Intelligence Systems	Nov 2024	https://doi.org/10.1109/ICSSAS64001.2024.10760427
18	Mrs.J.Sangeetha	Optimizing Inter-Cell Resource Partitioning in Network Slicing: A Game-Theoretic Approach	Global Conference for Advancement in Technology	Oct 2024	979-8-3503-7668-5/24
19	Mrs.R.Shobana	Cybersecurity:Strategies, sector-specific Challenges and future prospects	Fourth international conference on ubiquitous computing and intelligent information system	Dec 2024	979-8-3315-2963-5/24



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20	Mrs.S N. Ananthi	Enhanced Cybersecurity: Development and Evaluation of a Secure Data Sharing Paradigm Based on Blockchain Technology	First International Conference on Electronics, Communication and Signal Processing (ICECSP)	Aug 2024	10.1109/I CECSP618 09.2024.1 0698576
21	Mrs.S N. Ananthi	Effective Street View Traffic Sign Detection and Recognition Using Deep Learning	Lecture Notes in Networks and Systems.	July 2024	10.1007/9 78-981- 97-3466- 5_22
22	Mrs.S N. Ananthi	Machine Learning Approaches for Advanced Threat Detection in Cyber Security	IEEE XPLORE(CONF)	Mar 2025	10.1109/GC AT62922.20 24.10924109
23	Mrs.S N. Ananthi	Neural Networks for Natural Language Processing	IEEE XPLORE(CONF)	Apr 2025	10.1109/AC OIT62457.20 24.10939556
24	Mrs.S N. Ananthi	AI Powered Smart IoT Helmet for the Early Detection of COVID- and its Variants	IEEE XPLORE(CONF)	May 2025	10.1109/ICIC T64420.2025 .11004910
25	Mrs.S N. Ananthi	Green Data Centers: Advancing Sustainability in the Digital Era	IEEE XPLORE(CONF)	May 2025	10.1109/ICT MIM65579.2 025.1098843 9
26	Mrs.C.Lakshmi priya	Translation System for the Visually Impaired from English to Braille	World Conference on Communication and Computing, W(CONF)	July 2024	10.1109/ WCONF61 366.2024. 10692175



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27	Mrs.S.Gayathri	Enhancing Predictive Modeling in High Dimensional Data Using Hybrid Feature Selection	5th International Conference on Electronics and Sustainable Communication Systems	Oct 2024	10.1109/I CESC6085 2.2024.10 690153
28	Mrs.S.Gayathri	Exploring Sustainable Computing: IoT, Big Data, and Energy-Efficient Solutions	5th International Conference on Trends in Material Science and Inventive Materials	May 2025	10.1109/I CTMIM65 579.2025. 10987989
29	Mr.R.Nithya nandan	Enhancing Healthcare Data Security in the Cloud: Integrating ML-Based Intrusion Detection Systems	2nd World Conference on Communication and Computing, WCONF 2024	June 2024	10.1109/ WCONF61 366.2024. 10692289
30	Mr.R.Nithya nandan	Machine Learning Approaches for Liver Disease Prediction: A Comparative Analysis	5th International Conference on Electronics and Sustainable Communication Systems	Aug 2024	10.1109/I CES60852. 2024.1068 9974
31	Mr.R.Nithya nandan	Deep Reinforcement Learning: Key Algorithms, Applications, and Future Challenges	2nd international conference on self-sustainable artificial intelligence systems	Oct 2024	10.1109/ ICSSAS6 4001.20 24.1076 0822
32	Mr.R.Nithya nandan	Machine Learning Strategies For Customer Churn Prediction In	IEEE XPLORE	Feb 2025	10.1109/I CSCNA637 14.2024.1 0864143



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		Competitive Enterprises			
33	Mrs.R.Dhivya Bharathi	Beyond Reality: Crafting Logical Systems for Autonomous Vehicles through Virtual Reality	IEEE XPLORE	Oct 2024	10.1109/WCONF61366.2024.10692163
34	Mrs.R.Dhivya Bharathi	Ensuring Confidentiality: A Secure Deduplication Model to Prevent Healthcare Records over Cloud Computing Environment with Advanced Crypto Logics	IEEE XPLORE	Aug 2024	10.1109/CONIT61985.2024.10626955

FACULTY PUBLICATIONS (2024-2025)- BOOK CHAPTER

S.No	Name Of The Faculty	Papers Published			
		Title of the Paper	Name of the Journal/Conference	Month & Year of Publication	DoI
1	Dr.R.Geetha	IoT-Enabled Steganography-Based Smart Agriculture Using Machine Learning Models in Industry 5.0	Enhancing Steganography Through Deep Learning Approaches	Nov 2024	10.4018/979-8-369-2223-9



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2	Dr.R.Geetha	An Efficient Keyword-Based Search Mechanism in Encrypted Cloud Storage using Symmetric Key Methods with Steganography	Enhancing Steganography Through Deep Learning Approaches	Nov 2024	10.4018/979-8-3693-2223-9
3	Dr.R.Geetha	Advances in Artificial Intelligence and Machine Learning in Big Data Processing	Communications in Computer and Information Science (volume 2202)(book chapter)	May 2025	https://doi.org/10.1007/978-3-031-73065-8
4	Dr.R.Geetha	Advances in Artificial Intelligence and Machine Learning in Big Data Processing	Communications in Computer and Information Science (volume 2203)(book chapter)	May 2025	https://doi.org/10.1007/978-3-031-73065-8
5	Mr.C.Balakrishnan	Data insight unveiled: Navigating critical approaches and challenges in diverse domains through advanced data analysis	Critical Approaches to Data Engineering Systems and Analysis	Dec 2024	10.4018/979-8-3693-2260-4.ch006



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6	Mr.C.Bala krishnan	Revolutionizing trust manufacturing integrating real-time data and AI innovations for enhanced efficiency	Industry Application s of Thrust Manufactur ing: Convergen ce with Real- Time Data and AI	Nov 2024	10.4018/979-8- 3693-4276- 3.ch003
7	Mrs.C.Lakshmi priya	Meta-heuristics and machine learning applications in complex systems	Metaheuris tic and Machine Learning Optimizatio n Strategies for Complex Systems	Jun 2024	10.4018/979-8- 3693-7842- 7.ch014
8	Mrs.S.Gayathri	Emerging trends in edge AI for Industry 4.0 and 5.0: Technologies, applications, and challenges	AI Innovations in Service and Tourism Marketing	Jul 2024	10.4018/979-8- 3693-7909- 7.ch010
9	Ms.S.Gayathri	Energy Efficient Algorithms In High Performance Computing: Approaches, Applicatio ns, And Innovations	IGI Global(boo k chapter)	Apr 2025	10.4018/979-8- 3373-0766- 4.ch003
10	Mr.R.Nithyana ndhan	Advancing Sustainability In Software Engineering: Key Practices And Future Directions	IGI Global(boo k chapter)	Apr 2025	10.4018/979-8- 3373-0766- 4.ch008