

FACULTY PUBLICATIONS

ACADEMIC YEAR : 2024-2025					
PUBLICATION TYPE: Web of Science					
Sl. No.	Author(s)	Title of the paper	Name of the Journal with volume no., issue no and page no.	Month/Year of publication	DOI
1.	Dr. M Geetha	Mapping Coastal Urbanization Impacts with Object-Based Image Classification and Land use/Land Cover Change Detection: A Focus On Sustainable Development	Journal of South American Earth Sciences, Volume 161, 105559	02 May 2025	https://doi.org/10.1016/j.jsames.2025.105559
2.		Heart Disease Prediction Using Fuzzy Logic-Based Image Processing and Classification Techniques	The Bioscan, 20(2): 163-173	03 June 2025	DOI: 10.63001/tbs.2025.v20.i02.pp163-173
PUBLICATION TYPE: SCOPUS					
Sl. No.	Author(s)	Title of the paper	Name of the Journal with volume no., issue no and page no.	Month/Year of publication	DOI
1.		Enhancing Cyber-Physical System Security through AI-	International Journal of Computational and	02 March 2025	DOI: 10.22399/ijcesen.1168

	Dr. Ahmed Mudassar Ali	Driven Intrusion Detection and Blockchain Integration	Experimental Science and Engineering (IJCESEN) Vol. 11-No.1 (2025) pp. 1356-1362		
2.		AI-Driven Predictive Maintenance for Smart Manufacturing Systems Using Digital Twin Technology	International Journal of Computational and Experimental Science and Engineering (IJCESEN) Vol. 11-No.1 (2025) pp. 1350-1355	02 March 2025	DOI: 10.22399/ijcesen.1099
3.	Dr. M Geetha	Predicting Severity Of Osteoarthritis Using Recurrent Convolutional Neural Networks (Rcnn) And Medical Imaging Data	South Eastern European Journal of Public Health, 47–61.	12 July 2024	https://doi.org/10.70135/seejph.vi.894
4.		An effective network security scrutinising method based on deep learning	International Journal of Electronic Security and Digital Forensics, Volume 16, Issue 4 Pages 464 – 473	05 July 2024	https://doi.org/10.1504/ijesdf.2024.139656
5.	Ms. Julia Faith S	Performance Evaluation of Natural Language Processing Algorithms for Sentiment Analysis	SN Computer Science, Volume 5, article number 724,(2024)	26 July 2024	DOI: 10.1007/s42979-024-03094-8
6.		Network data security based on routing algorithm: : application in vehicular ad-hoc networks	International Journal of Mobile Network Design and Innovation, pp 94-101	20 January 2025	https://doi.org/10.1504/ijmndi.2024.144006

7.	Mrs. T. Veena	Enhanced energy efficient routing protocol for on demand distance vector routing to improve communication in border area military communication	International Journal of Computational and Experimental Science and Engineering (IJCESEN), Vol. 10-No.4 (2024) pp. 656-662	October 2024	DOI: 10.22399/ijcesen.492
8.	Mrs. D Chithra	Assessing the Toxicological Impact of Exhaust Gas Particulate Matter Across Various Fuels During Cold Temperature Operation	Journal of New Materials for Electrochemical Systems Vol. 27, No. 3, pp. 236-247	10 September 2024	DOI: https://doi.org/10.14447/jnmes.v27i3.a09
9.		Computer Aided Based Performance Analysis of Glioblastoma Tumor Detection Methods using UNET-CNN	International Journal of Computational and Experimental Science and Engineering (IJCESEN), Vol. 10-No.4 (2024) pp. 753-762	18 October 2024	DOI: 10.22400/ijcesen.515
10.	Mr. P Senthil	Novel Slumped SRAM Configuration using QCA Leveraging Differential Voltage Sensing for Enhanced Stability and Efficiency	Journal of Cybersecurity and Information Management (JCIM), Vol. 14, No. 01, PP. 207-217, 2024	2024	Doi : https://doi.org/10.54216/JCIM.140114
11.	Mrs. S. Krishnaveni	Leveraging Machine Learning-Driven Recommender Systems For Enhanced Student Engagement And Motivation	Journal of Basic Science and Engineering Vol. 22, No. 1, ISSN: 1005-0930	June 2025	DOI: https://doie.org/10.10399/JBSE.2025420040

12.	Mrs. S. Asha	Advancing chronic pain relief cloud-based remote management with machine learning in healthcare	Indonesian Journal of Electrical Engineering and Computer Science, Vol. 37, No. 2, February 2025, pp. 1042~1052	December 2024	DOI: 10.11591/ijeecs.v37.i2.pp1042-1052
13.	Mrs. Hima Vijayan	Intelligent Edge Healthcare Using Federated Learning and Clustering with Kepler-Optimized Steerable Graph Neural Networks	Journal of Information Systems Engineering and Management, 10(39s), e-ISSN: 2468-4379	26 April 2025	https://www.jisem-journal.com/
14.		Black hole attacks recognition in wireless mobile ad hoc networks (MANET)	Int. J. Mobile Network Design and Innovation, Vol. 11, No. 3, 2025	16 June 2025	https://doi.org/10.1504/IJMNDI.2025.146749
15.	Mrs Valarmathi K	Federated Learning for AI-Powered Privacy in Distributed Systems	International Journal of Computational and Experimental Science and Engineering	18 June 2025	DOI: https://doi.org/10.22399/ijcesen.2505
16.		Obstacle detection in railway tracks: vehicle autonomous system application	International Journal of Vehicle Autonomous Systems	May 7, 2025	https://doi.org/10.1504/IJVAS.2025.146148
17.	Mrs. Sutha Merlin J	Employing Reinforcement Learning in Autonomous Vehicle-to-Vehicle Communication Systems	International Journal of Computational and Experimental Science and Engineering, Vol. 11-No.3,	June 2025	DOI: 10.1109/ICDCECE65353.2025.11035252

			pp. 4329-4335		
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PUBLICATION TYPE: SCOPUS Conferences

Sl. No.	Author(s)	Title of the paper	Name of the Conference	Month/Year of publication	DOI
1.	Dr. M Geetha	An efficient prediction of sentiment in social media system based on novel convolutional neural network compared with artificial neural network	AIP Conference Proceedings 3252(1)	March 03 2025	https://doi.org/10.1063/5.0260140
2.	Mrs. A.M Sermakani	TrustNet: A Novel Machine Learning-Driven Dynamic Trust Establishment for Intrusion Detection in Wireless Ad Hoc Networks	2024 5th International Conference for Emerging Technology (INCET)	26 July 2024	DOI: 10.1109/INCET61516.2024.10593532
3.		OPEN EYE: An Information Gathering Tool Using OSINT Framework	2024 International Conference on Smart Technologies for Sustainable Development Goals (ICSTSDG)	17 June 2025	DOI: 10.1109/ICSTSDG61998.2024.11026654
4.		Deep Belief Networks for Brain Tumor Recurrence and Survival Rate Prediction	2024 International Conference on Smart Technologies for Sustainable Development Goals (ICSTSDG)	17 June 2025	DOI: 10.1109/ICSTSDG61998.2024.11026678

5.	Ms. Julia Faith S, Mrs. A.M. Sermakani, Mrs. T. Veena, Mrs. D. Chithra	Crime Defender - A Proactive Measure for Community Security	2024 International Conference on Smart Technologies for Sustainable Development Goals (ICSTSDG)	17 June 2025	DOI: 10.1109/ICSTSDG61998.2024.11026122
6.	Mrs. Chithra D, Mrs. T. Veena, Mrs. A.M Sermakani, Ms. S. Julia Faith, Mr. P. Senthil	House Authentication Using Finger Vein Based on Anatomical Features of Vein Patterns	2024 International Conference on Smart Technologies for Sustainable Development Goals (ICSTSDG)	17 June 2025	DOI: 10.1109/ICSTSDG61998.2024.11026178
7.	Ms. Julia Faith S	Transforming healthcare delivery: A framework for remote monitoring and predictive analysis through AI and IoT technologies	AIP Conf. Proc. 3270, 020237	11 April 2025	https://doi.org/10.1063/5.0261616
8.	Mrs. T. Veena	Enhancing Bayesian optimization with structural domain knowledge for efficient search	AIP Conf. Proc. 3270, 020239	11 April 2025	https://doi.org/10.1063/5.0262551
9.	Mrs. D Chithra	Blockchain-enhanced sensing as a service for smart supply chains: A decentralized IoT framework	2nd International Interdisciplinary Scientific Conference on Green Energy, Environmental and Renewable Energy, Advanced Materials, and Sustainable Development, AIP Conf. Proc. 3193, 020078-1–020078-10	12 November 2024	https://doi.org/10.1063/5.0235520
10.	Mrs. S. Krishnaveni	Analysis of Internet of Things Cyber security and Communication systems and its Applications	2024 Third International Conference on Electrical, Electronics, Information and Communication	23 October 2024	DOI: 10.1109/ICEEICT61591.2024.10718553

			Technologies (ICEEICT)		
11.		Advanced feature learning for multi-scenario rankings: The maria framework for product recommendations	AIP Conf. Proc. 3270, 020238	11 April 2025	https://doi.org/10.1063/5.0262223
12.	Mrs. S. Asha	Twitter (X) Spam Detection Using Natural Language Processing by Encoder Decoder Model	2024 1st International Conference on Sustainable Computing and Integrated Communication in Changing Landscape of AI (ICSCAI)	13 February 2025	DOI: 10.1109/ICSCAI61790.2024.10866112
13.		Dipper Throated Optimization with Convolutional Neural Network Based Task Scheduling and Resource Allocation in the Cloud Computing	2024 International Conference on Integrated Intelligence and Communication Systems (ICIICS)	05 February 2025	DOI: 10.1109/ICIICS63763.2024.10860170
14.	Mrs A Seetha	Enhancing Intrusion Detection Systems with Digital Twin Technology for Cyber-Physical Security	2024 International Conference on Distributed Systems, Computer Networks and Cybersecurity (ICDSCNC), Bengaluru, India, 2024	01 April 2025	doi: 10.1109/ICDSCNC62492.2024.10939345.
15.		Optimizing Logistics in E-Commerce Using Deep Random Forest for Enhanced User Satisfaction	2025 International Conference on Automation and Computation (AUTOCOM)	16 April 2025	DOI: 10.1109/AUTOCOM64127.2025.10956957
16.	Mrs. K Valarmathi	Digital Twin-Driven Intrusion Detection for IoT and Cyber-Physical System	2024 International Conference on Intelligent Algorithms for Computational Intelligence Systems (IACIS)	24 October 2024	DOI: 10.1109/IACIS61494.2024.10721930

17.	Mrs. K. Valarmathi	Anomaly Detection in Industrial Inspection Visual Systems using Swin Transformer with Bayesian Optimization	2025 4th International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE) EISBN:979-8-3315-3366-3	18 June 2025	DOI: 10.1109/ICDCECE65353.2025.11035252
18.	Sutha Merlin J	A Spectral Learning Enhancement method in Cooperative multi agent system for production control system	2024 International Conference on Intelligent Algorithms for Computational Intelligence Systems (IACIS)	24 October 2024	DOI: 10.1109/IACIS61494.2024.10721945

PUBLICATION TYPE: Book Chapters

Sl. No.	Author(s)	Title of the Chapter	Name of the Book, ISBN	Month/Year of publication	DOI
1.	Mrs. A.M Sermakani	Digital Twin Past, Present, and Future	Digital Twin Technology and Applications, eBook ISBN: 9781003469612	18 September 2024	https://doi.org/10.1201/9781003469612
2.	Mrs. T Veena	IoT-Enabled Steganography-Based Smart Agriculture Using Machine Learning Models in Industry 5.0	Enhancing Steganography Through Deep Learning Approaches, IGI Global, ISBN13: 9798369322239	November 2024	DOI: 10.4018/979-8-3693-2223-9.ch014

ACADEMIC YEAR : 2023 - 2024

PUBLICATION TYPE: SCIE Journals

Sl. No.	Author(s)	Title of the paper	Name of the Journal with volume no., issue no and page no.	Month/Year of publication	DOI
1.	Dr.M. Geetha	Hybrid Archimedes Sine Cosine optimization enabled Deep Learning for multilevel brain tumour classification using MRI images	Biomedical Signal Processing and Control, Volume 87, Part B, 2024, 105419, ISSN 1746-8094	September 2023	https://doi.org/10.1016/j.bspc.2023.105419
2.	Dr.S. Kotteswaran	A Deep Auto-Optimized Collaborative Learning (DACL) model for disease prognosis using AI-IoMT systems	Scientific reports 14, 10280	04 May 2024	https://doi.org/10.1038/s41598-024-59846-2
3.		A supervised learning approach for the influence of comorbidities in the analysis of COVID-19 mortality in Tamil Nadu	Soft Computing	03 June 2023	https://doi.org/10.1007/s00500-023-08590-2
4.	Mrs. A.M Sermakani	Dynamic Provisioning of Virtual Machine Using Optimized Bit Matrix Load Distribution in Federated Cloud'	Journal of Intelligent & Fuzzy Systems, vol. 45, no. 6, pp. 11613-11627, 2023	07 October 2023	DOI: 10.3233/JIFS-232897

5.	Mrs Hima Vijayan	A-MKMC: An effective adaptive-based multilevel K-means clustering with optimal centroid selection using 3.hybrid heuristic approach for handling the incomplete data	Data & Knowledge Engineering, Volume 150, 102243, ISSN 0169-023X	22 November 2023	https://doi.org/10.1016/j.datak.2023.102243
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PUBLICATION TYPE: ESCI/Scopus Indexed Journals					
Sl. No.	Author(s)	Title of the paper	Name of the Journal with volume no., issue no and page no.	Month/Year of publication	DOI
1.	Dr.M. Geetha	Shuffled Shepherd Social Political Optimized Deep Learning For Rice Leaf Disease Classification and Severity Percentage Prediction	Biomedical Engineering: Applications, Basis and Communications	21 June 2024	https://doi.org/10.4015/S1016237224500133
2.	Dr.S. Kotteswaran	Leather Image Quality Classification and Defect Detection System using Mask Region-based Convolutional Neural Network Model	International Journal of Advanced Computer Science and Applications (IJACSA), 15(4)	January 2024	http://dx.doi.org/10.14569/IJACSA.2024.0150455

3.	Mrs. T. Veena	Security challenges for routing protocols in mobile ad hoc network	International Journal of Electronic Security and Digital Forensics	01 May 2024	https://doi.org/10.1504/IJESDF.2024.138338
4.	Mrs. D Chithra	Optimised Routing Protocol In Wireless Sensor Networks For Natural Disaster Avoidance And Environmental Protection	Journal of Environmental Protection and Ecology 24(6), pp. 2036–2046	2023	https://scibulcom.net/en/article/zZkKJ8939FdCWxddq5nU
5.	Mrs. S. Krishnaveni	Cloud computing-based computer forensics: a deep learning technique	International Journal of Electronic Security and Digital Forensics, Vol. 16, No. 3, pp 317-328	01 May 2024	https://doi.org/10.1504/IJESDF.2024.138355
6.	Mrs. S. Asha	A novel colour image encryption algorithm using S-box technique	International Journal of Electronic Security and Digital Forensics (IJESDF), Vol. 16, No. 2, 2024	March 2024	DOI: 10.1504/IJESDF.2024.137045
7.	Mrs Hima Vijayan	Detection of Botnet using deep learning algorithm: application of machine learning in cyber-security	International Journal of Electronic Security and Digital Forensics (IJESDF), Vol. 16, No. 2, 2024	March 2024	DOI: 10.1504/IJESDF.2024.137030

8.	Mrs. K Valarmathi	Ai-Driven Prediction Models For Medical Image Enhancement And Analysis Using Deep Learning	South Eastern European Journal of Public Health ISSN: 2197-5248	14 June 2024	DOI: https://doi.org/10.70135/seejph.vi.793
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PUBLICATION TYPE: SCOPUS Conferences					
Sl. No.	Author(s)	Title of the paper	Name of the Conference	Month/Year of publication	DOI
1.	Mrs. A.M Sermakani	Quantum-Resistant Wireless Intrusion Detection System using Machine Learning Techniques	2023 7th International Conference On Computing, Communication, Control And Automation (ICCUBEA)	22 January 2024	DOI: 10.1109/ICCUBEA58933.2023.10392127
2.	Ms. Julia Faith S	Multimodal Sentimental Analysis Using GloVe Convolutional Neural Network with Capsule Network	2023 3rd International Conference on Mobile Networks and Wireless Communications (ICMNBC)	22 February 2024	DOI: 10.1109/ICMNBC60182.2023.10435957
3.	Mrs. T. Veena	Face Detection and Classification using Convolutional Neural Network with Channel Attention Module	2023 3rd International Conference on Mobile Networks and Wireless Communications	22 February 2024	DOI: 10.1109/ICMNBC60182.2023.10435738

			(ICMNWC)		
4.		Deep Belief Network Based Intrusion Detection in Vehicle Ad Hoc Network	2024 International Conference on Distributed Computing and Optimization Techniques (ICDCOT)	08 May 2024	DOI: 10.1109/ICDCOT61034.2024.10515496
5.		Lightweight GWO-LSTM-Based Land Cover Classification using Remote Sensing Images	2023 International Conference on Evolutionary Algorithms and Soft Computing Techniques (EASCT)	22 January 2024	DOI: 10.1109/EASCT59475.2023.10393821
6.	Mr. P Senthil	Hybrid of Ant Colony and Artificial Bee Colony Optimization for Resource Allocation in Cognitive Radio Networks	International Conference on Distributed Computing and Optimization Techniques, ICDCOT 2024	08 May 2024	DOI: 10.1109/ICDCOT61034.2024.10516257
7.		Gated Recurrent Unit with Adaptive Golden Jackle Optimization based Efficient Resource Scheduling in Mobile Cloud Computing	International Conference on Distributed Computing and Optimization Techniques, ICDCOT 2024	15 March 2024	DOI: 10.1109/ICDCOT61034.2024.10516152
8.	Mrs. S. Krishnaveni	Analysis of Wireless Internet of Things to Medical Health Care Patient Applications	2023 First International Conference on Advances in Electrical, Electronics and Computational Intelligence (ICAEECI)	03 January 2024	DOI: 10.1109/ICAEECI58247.2023.10370890
9.		IoT-Embedded Traffic Cones with	2024 2nd International	22 March	DOI: 10.1109/IDCIoT59759.2024.1

		CNN-based Object Detection to Roadwork Safety	Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT)	2024	0467840
10	Mrs. S. Asha	Cloud Computing's Effect on Video Games Streaming	2023 2nd International Conference on Automation, Computing and Renewable Systems (ICACRS)	26 January 2024	DOI: 10.1109/ICACRS58579.2023.10404378
11	Mrs. Hima Vijayan	Revolutionizing Healthcare With Cloud Computing: The Impact of Clinical Decision Support Algorithm	2023 International Conference on Artificial Intelligence for Innovations in Healthcare Industries (ICAIHI)	15 April 2024	DOI: 10.1109/ICAIHI57871.2023.10489022
12	Mrs. Sutha Merlin J	Intrusion Detection System using Improved Wild Horse Optimizer-Based DenseNet for Cognitive Cyber-Physical System in Industry 4.0	2024 International Conference on Distributed Computing and Optimization Techniques (ICDCOT)	08 May 2024	DOI: 10.1109/ICDCOT61034.2024.10515662

PUBLICATION TYPE: Book Chapters

Sl. No.	Author(s)	Title of the Chapter	Name of the Book, ISBN	Month/Year of publication	DOI
1.	Dr. M. Geetha	Learning Approaches for Security and Privacy in Internet of Things	Modern Approaches in IoT and Machine Learning for Cyber Security. Internet of	08 December 2023	https://doi.org/10.1007/978-

			Things. Springer. Print ISBN 978-3-031-09954-0		3-031-09955-7_4
2.	Mrs. D Chithra	Hybrid Railway Safety Optimization With Neural Networks and Random Forests	Spectrum and Power Allocation in Cognitive Radio Systems ISBN 13: 9798369328934	June 2024	DOI: 10.4018/979-8-3693-2893-4

ACADEMIC YEAR : 2022 -2023

PUBLICATION TYPE: SCIE

Sl. No.	Author(s)	Title of the paper	Name of the Journal with volume no., issue no and page no.	Month/Year of publication	DOI
1.	Dr. Ahmed Mudassar Ali	Modified Adhoc On-Demand Distance Vector for Trust Evaluation And Attack Detection	Intelligent Automation & Soft Computing, 36(2), 1227-1240	Jan 2023	DOI: 10.32604/iasc.2023.025752

2.	Mrs. Hima Vijayan	A Hybrid Intelligent Clustering Model for Tackling Incomplete Mixed Data Using a Heuristic Algorithm with Artificial Intelligence	Cybernetics and Systems, 55(5), 1005–1040	11 Nov 2022	https://doi.org/10.1080/01969722.2022.2137649
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PUBLICATION TYPE: Scopus Indexed

Sl. No.	Author(s)	Title of the paper	Name of the Journal with volume no., issue no and page no.	Month/Year of publication	DOI
1.	Mr. P Senthil, Mrs T. Veena, Mrs, Julia Faith	Conceptual Approach On Smart Car Parking System For Industry 4.0 Internet Of Things Assisted Networks	Measurement: Sensors, Volume 24,100474, ISSN 2665-9174	04 October 2022	https://doi.org/10.1016/j.measen.2022.100474

PUBLICATION TYPE: SCOPUS Conference

Sl. No.	Author(s)	Title of the paper	Name of the Conference	Month/Year of publication	DOI
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1.	Dr. Ahmed Mudassar Ali	Empirical Method for Thyroid Disease Prediction Using a Deep Learning Techniques	2023 IEEE 8th International Conference for Convergence in Technology (I2CT)	23 May 2023	DOI: 10.1109/I2CT57861.2023.10126291
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