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DEPARTMENT OF INFORMATION TECHNOLOGY

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



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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.	Dr. Ahmed Mudassar Ali	Enhancing Cyber-Physical System Security through AI-Driven Intrusion Detection and Blockchain Integration	International Journal of Computational and Experimental Science and Engineering (IJCESN) Vol. 11-No.1 (2025) pp. 1356-1362	02 March 2025	DOI: 10.22399/ijcesen.1168
2.		AI-Driven Predictive Maintenance for Smart Manufacturing Systems Using Digital Twin Technology	International Journal of Computational and Experimental Science and Engineering (IJCESN) 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.	Ms. Julia Faith S	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



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5.		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



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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



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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, pp. 4329-4335	June 2025	DOI: 10.1109/ICDCECE65353.2025.11035252



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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	17 June 2025	DOI: 10.1109/ICSTSDG61998.2024.11026678



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			Goals (ICSTSDG)		
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/ICSTSDG61998.2024.11 026122
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/ICSTSDG61998.2024.11 026178
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



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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 Technologies (ICEEICT)	23 October 2024	DOI: 10.1109/ICEEICT61591.2024.10718553
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.	Mrs A Seetha	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.		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.



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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



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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