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DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

JOURNAL PUBLICATIONS

AY 2025-26

S.NO.	AUTHOR	PAPER TITLE	JOURNAL NAME	INDEXED (UGC CARE/ SCOPUS/ WOS)	LINK
1.	Dr.S.Malathi.et.al.,	Machine Learning-Based Microcalcification Detection from Mammograms: Former Techniques and Challenges, Future Research Trends	Biomedical Engineering - Applications, Basis and Communications	Scopus	https://www.scopus.com/authid/detail.uri?authorId=57195331995
2.	Dr.S.Malathi.et.al.,	A Systematic Review and Meta-Analysis on Diagnosis of Osteoporosis Risk in Real Time Using Machine Learning and Deep Learning Techniques	Journal of Information and Knowledge Management	Scopus	https://www.scopus.com/authid/detail.uri?authorId=57195331995
3.	Dr.K.Jayashree,et.al.,	A Novel Multi-Objective Task Scheduling Using Hybrid Drawer-Mother Optimization Algorithm in Cloud Computing	Transactions on Emerging Telecommunication s Technologies	SCIE & Scopus	https://www.scopus.com/authid/detail.uri?authorId=55492906800
4.	Dr.K.Jayashree,et.al.,	Efficient Ensemble RAB-SVM Framework Using African Buffalo Algorithm for Accurate Glaucoma Detection and Classification	IETE Journal of Research	SCI & Scopus	https://www.scopus.com/authid/detail.uri?authorId=55492906800
5.	Dr.S.Chakaravarthi,et.al.,	Enhanced Data Security in Wireless Sensor Networks Through Multi-Objective Energy-Aware Routing Utilizing Interpretable Generalized Additive Neural Network	Journal of Circuits, Systems and Computers	Scopus	https://www.scopus.com/authid/detail.uri?authorId=56048705100
6.	Dr.S.Chakaravarthi,et.al.,	Secure vision: Integrated anti-spoofing and deep-fake detection system using knowledge distillation approach	Signal Processing: Image Communication	SCIE & Scopus	https://www.scopus.com/authid/detail.uri?authorId=56048705100

7.	Dr.S.Chakaravarthi,et.al.,	Ai-Powered X-Ray Imaging for Early Bone Change Identification Associated with Sickle Cell Anemia	Journal of Environmental Protection and Ecology	SCI & Scopus	https://www.scopus.com/authid/detail.uri?authorId=56048705100
8.	Dr.S.Chakaravarthi,et.al.,	An innovative breast cancer detection framework using multiscale dilated densenet with attention mechanism	Network: Computation in Neural Systems	Scopus	https://www.scopus.com/authid/detail.uri?authorId=56048705100
9.	Dr.W.Gracy Theresa,et.al.,	Multi-modal emotional analysis in customer relation management and enhancing communication through integrated affective computing	Scientific Reports	SCIE & Scopus	https://www.scopus.com/authid/detail.uri?authorId=57200211657
10.	Dr.W.Gracy Theresa,et.al.,	EmoMAC: a bias- induced multimodal fusion model for emotional analysis with visualization analytics enabled through super affective computing in emails	Journal of Combinatorial Optimization	Scopus	https://www.scopus.com/authid/detail.uri?authorId=57200211657
11.	Dr.W.Gracy Theresa,et.al.,	Multimodal Deep Learning Model for Measuring the Impact of Social Media Advertising Using Visual Linguistic Representation Learning	Journal of Machine and Computing	Scopus	https://www.scopus.com/authid/detail.uri?authorId=57200211657
12.	Dr.S.Kalaimagal et al.,	Energy-Efficient Optimal Scheduling of Renewable Energy Sources in Power Systems Using Genetic Algorithms and Support Vector Machines	International Journal of Computational Intelligence Systems	SCIE & Scopus	https://www.scopus.com/authid/detail.uri?authorId=57200211657
13.	Dr.N.Sivakumar,et.al.,	Deep Learning-Based Classification of Comments and Reviews for Sustainable Development Goals (SDGs) with Web Application Implementation	International Journal of Basic and Applied Sciences	Scopus	https://www.scopus.com/authid/detail.uri?authorId=46662041200
14..	Dr.N.Sivakumar,et.al.,	Anomaly detection based self-healing mechanism using dynamic diffusion spatial-temporal graph convolutional network in industrial IoT	Knowledge-Based Systems	SCIE & Scopus	https://www.scopus.com/authid/detail.uri?authorId=46662041200
15.	Dr.P.Kavitha et. al.,	Integrating artificial intelligence for enhanced water quality prediction and Classification : A multi- model approach	Global Nest Journal	SCIE & Scopus	https://www.scopus.com/authid/detail.uri?authorId=57374448500

16.	Dr.P.Kavitha et. al.,	Treatment of Surface Water Using Chrysopogon zizanioides With Water Quality Monitoring and Classification by Machine Learning Models	Environmental Quality Management	Scopus	https://www.scopus.com/authid/detail.uri?authorId=57374448500
17.	Dr.C.Gnanaprakasam,et.al.,	Harnessing the power of MAGRes-UNet with progressive cyclical convolutional neural networks for effective skin lesion segmentation in dermoscopic image analysis	Biomedical Signal Processing and Control	SCIE & Scopus	https://www.scopus.com/authid/detail.uri?authorId=57207675083
18.	Dr.C.Gnanaprakasam,et.al.,	AI-driven graphene oxide composite sensors for multi- pollutant detection and classification	Microchemical Journal	SCIE & Scopus	https://www.scopus.com/authid/detail.uri?authorId=57207675083
19.	Dr.C.Bharanidharan. et.al.,	Real-time face detection and local binary patterns histograms-based face recognition on Raspberry Pi with OpenCV	International Journal of Reconfigurable and Embedded Systems	Scopus	https://doi.org/10.11591/ijres.v14.i2.pp527-537
20.	Dr.M.SMaharajan,et.,al.,	Enhanced blood prothrombin time detection deploying flexible substrate UWB antenna from artifacts removed pure plasma through statistical multiple regression modelling	Computers and Electrical Engineering	Scopus	https://www.scopus.com/authid/detail.uri?authorId=57211287103
21.	Dr.M.SMaharajan,et.,al.,	Deep learning-based malignancy prediction in thyroid nodules	International Journal of Medical Engineering and Informatics	Scopus	https://www.scopus.com/authid/detail.uri?authorId=57211287103
22.	Dr.M.SMaharajan,et.,al.,	Biosynthesized CoFe ₂ O ₄ from grape peel extract and polyvinyl alcohol-based composite: evaluation and characterization	Journal of the Australian Ceramic Society	Scopus	https://www.scopus.com/authid/detail.uri?authorId=57211287103
23.	Dr.M.SMaharajan,et.,al.,	Advanced Groundwater Level Forecasting using QSO-based Vision Transformer Model for Sustainable Water Resource	IIUM Engineering Journal	Scopus	https://www.scopus.com/authid/detail.uri?authorId=57211287103
24.	Dr.E.Bhuvaneswari,et.al.,	A human-centered hybrid AI framework for optimizing emergency triage in resource-constrained settings	Intelligence-Based Medicine	Scopus	https://www.scopus.com/authid/detail.uri?authorId=57224616436
25.	Dr.E.Bhuvaneswari,et.al.,	Multi-Agent Soft Actor-Critic with Graph Attention Networks for Adaptive Traffic Signal Optimisation (MASAC-GAT)	EAI Endorsed Transactions on Internet of Things	Scopus	https://www.scopus.com/authid/detail.uri?authorId=57224616436

26.	Dr.E.Bhuvaneswari,et.al.,	Edgeguardmed: Transformer-Based Intrusion Detection with Packet-Flow Fusion for Resilient IoMT	Biomedical Materials and Devices	Scopus	https://www.scopus.com/authid/detail.uri?authorId=57224616436
27.	Dr. Maria Manuel Vianny.et.al.,	Integration of metaheuristic based feature selection with ensemble representation learning models for privacy aware cyberattack detection in IoT environments	Scientific Reports	SCIE & Scopus	https://www.scopus.com/authid/detail.uri?authorId=57704382800&origin=resultslist
28.	Dr.S.Leelavathy, et.al.,	A Blockchain-Based Authentication Handover Protocol for Autonomous Vehicle Networks	Tasmimgiri va Tahqiq dar Amaliyyat	Scopus	https://doi.org/10.22105/dmor.2025.515463.1933
29.	Dr.S.Leelavathy, et.al.,	Harnessing Fuzzy Logic Framework to Quantify Diagnostic Uncertainty in Medical Decision Support	Fuzzy Information and Engineering	Scopus	10.26599/FIE.2025.9270070
30.	Dr.S.Leelavathy, et.al.,	Fuzzy Computational Intelligence in Personalized Medicine and Diagnosis	Fuzzy Information and Engineering	Scopus	10.26599/FIE.2025.9270073
31.	Dr.C.Vivek,et,al.,	Experimental and numerical analysis of pressure drop optimization and comparative evaluation of multilayer microchannel nanofluid coolants for enhanced thermal performance in compact heat sinks	Applied Nanoscience Switzerland	Scopus	https://www.scopus.com/authid/detail.uri?authorId=58733881200
32.	Dr.C.Vivek,et,al.,	Efficient Mach–Zehnder modulators with high-pumped laser-based multimode doped fibers in high-modulated optical coded systems	Journal of Optics India	Scopus	https://www.scopus.com/authid/detail.uri?authorId=58733881200
33.	Dr.C.Vivek,et,al.,	Headspace Solid-Phase Microextraction (Spme-Gc-Ms) Of Gaseous Byproducts In Plasma-Assisted Hydrogen Storage Materials	Oxidation Communications	Scopus	https://www.scopus.com/pages/publications/105021549367?origin=resultslist
34.	Dr.M.Vidhyasree et.al.,	Harnessing Machine Vision Algorithms to Direct Car-T Cell Navigation Across Complex Tumor Landscapes in Next-Generation Immunotherapy	Trends in Immunotherapy	Scopus	https://doi.org/10.54963/ti.v9i4.1289

35.	Mrs.S.Srinidhi,et.al.,	Hybrid Deep Learning Approach for Deepfake Detection Using ResNet50 and EfficientNetB0	Journal of Innovative Image Processing	Scopus	https://doi.org/10.36548/jiip.2025.3.003
36.	Mrs.S.Srinidhi,et.al.,	Quantum Dot-Assisted Hybrid Plasmonic Photonic Crystal Fiber Biosensor for Ultra-Sensitive Multi-Biomarker Detection in Personalized Healthcare	Plasmonics	SCI & Scopus	10.1007/s11468-025-03323-7
37.	Mrs.R.Priya, et.al.,	Detecting Cyber Security Threats on Cloud Computing Networks of Intelligent Computing	International Journal of Applied Mathematics	Scopus	https://www.scopus.com/authid/detail.uri?authorId=60153521300&origin=resultslist
38.	Mrs.R.Vidhya Muthulakshmi.et.al.,	Nonlinear FWM effects management and FWM system performance analysis in ultra wide optical wavelength division multiplexing systems	Journal of Optical Communications	Scopus	https://www.scopus.com/authid/detail.uri?authorId=58932024600&origin=recordpage
39.	Mrs.R.Vidhya Muthulakshmi.et.al.,	Multiresonant Artificial Magnetic Conductor Impacted Monopole Antenna for WBAN Applications	Journal of Nano-and Electronic Physics	Scopus	https://doi.org/10.21272/jnep.17(5).05033
40.	Mrs. J.Anitha, et.al.,	A New Offloading Technique to Maximize Multi-User Performance in Edge Computing Using Blockchain Technology in the Internet of Things	International Journal of Applied Mathematics	Scopus	https://www.scopus.com/authid/detail.uri?authorId=58890831200
41.	Mrs.J.Anitha, et.al.,	Machine Learning-Based Microcalcification Detection From Mammograms: Former	Biomedical Engineering Applications Basis and Communications	Scopus	https://www.scopus.com/authid/detail.uri?authorId=59727388500
42.	Mrs.C.Gomathi, et.al.,	Real-Time Streaming Relay Device for P2P Overlay Networks In Pervasive Computing Environments	International Journal of Basic and Applied Sciences	Scopus	https://www.scopus.com/authid/detail.uri?authorId=58932473400&origin=resultslist
43.	Mrs.C.Gomathi et.al.,	A Systematic Review and Meta-Analysis on Diagnosis of Osteoporosis Risk in Real Time Using Machine Learning and Deep Learning Techniques	Journal of Information and Knowledge Management	Scopus	10.1142/S0219649225300037

44.	Mr.K.Vijayakumaret.al.,	DeepCuckoo: A Synergistic Approach Using Deep Learning and Bioinspired Cuckoo Search for Optimized Energy-Efficient Cluster Head Selection in 5G and Advanced Wireless Sensor Networks	International Journal of Communication Systems	Scopus	https://www.scopus.com/authid/detail.uri?authorId=59171881200
45.	Mrs. Bala Abirami, B. et.al.,	An IoT-Cloud-Based Detection Approach of Generalized Seizure across Ages Using Harmonic-Guided Neural Networks with Edge Optimization	International Journal of Electronics and Communication Engineering	Scopus	https://doi.org/10.14445/23488549/IJECE-V12I8P122
46.	Mrs.K.Saranya, et.al.,	Spinalfgnet Based Intrusion Detection for IoT Enabled Smart Irrigation	Computational Intelligence	SCIE & Scopus	10.1111/coin.70139
47.	Mr.K.Deepak kumar et.al.,	Intelligent growth of holy basil: an iot-based hydroponics system empowered by the CRL-SHS Algorithm	Earth Science Informatics	Scopus	https://doi.org/10.1007/s12145-025-01903-z
48.	Mr.M.Venkatesan, et.al.,	Toward Pervasive Intelligence Systems: Looking Ahead in Cyber-physical World in Pervasive Computing	International Journal of Basic and Applied Sciences	Scopus	https://doi.org/10.14419/s5wzx363
49.	Mr.P.Kaliappan, et.al.,	Swarm Intelligence-Based Performance Optimization for Wireless Sensor Networks for Hole Detection	International Journal of Engineering Science and Information Technology	Scopus	https://www.scopus.com/authid/detail.uri?authorId=59897598200
50.	Mrs.A.Babisha, et.al.,	IoT-Driven Heart Disease Prediction Using Triple Pseudo- Siamese Network and Pyramid Attention with Termite a late Optimization	Biomedical Materials and Devices	Scopus	https://www.scopus.com/authid/detail.uri?authorId=57419336500
51.	Mr.K.Vijayakumar, et.al.,	Novel Prediction on Breast Cancer through Lazy Learning Approach by Linear Neural Network Search with Distance with Euclidean	Fusion: Practice and Applications	Scopus	https://doi.org/10.54216/FPA.210114
52.	Mr.K.Vijayakumar, et.al.,	Optimizing Cluster Head Selection and Routing in 5G WSNs: A Reinforcement Learning and Deep Learning Approach.	Communication & Networks Connect	Scopus	https://scifiniti.com/uploads/articles/202509250926381.pdf
53.	Dr.S.Kalaimagal, et.al.,	Edge Cloud IoT Model Based Marine Life Analysis Using Machine Learning Algorithms	Journal of Intelligent Systems and Internet of Things	Scopus	https://doi.org/10.54216/JISIoT.180117

54.	Dr.S.Kalaimagal, et.al.,	Advancing Brain Tumor Detection: Optimized Machine Learning Models for Enhanced Diagnostic Accuracy	Journal of Computers, Mechanical and Management	Scopus	https://jcmm.co.in/index.php/jcmm/article/view/265/142
55.	Dr.S.Kalaimagal, et.al.,	Artificial Intelligence-Based Detection of Hemorrhage-Induced Brain Damage	Journal of Environmental Protection and Ecology	Scopus	https://scibulcom.net/en/article/1311-5065_2025_26_8_3328-3337
56.	Dr.S.Kalaimagal, et.al.,	Machine Learning Model in Satellite Data Security Analysis using Remote Sensing Network	Journal of Cybersecurity and Information Management	Scopus	https://doi.org/10.54216/JCIM.170106
57.	Dr.K.Jayashree, et.al.,	Q-TEC: A Highly Secured Trapdoor Encryption Scheme for User Authentication in Content-Based Image Retrieval Systems in Cloud	Traitement du Signal	WoS	https://doi.org/10.18280/ts.420243
58.	Mrs.Bala Abirami, B. et.al.,	Climate Change Prediction in Urban Environment Using UAV Imaging Based on Cloud IoT and Deep Learning Techniques	Journal of Intelligent Systems and Internet of Things	Scopus	https://doi.org/10.54216/JISIoT.180119
59.	Mrs.A.Babisha, et.al.,	Diverse Geographical Region Analysis Based on Deforestation Rate Using Remote Sensing Image and Machine Learning Techniques	Journal of Intelligent Systems and Internet of Things	Scopus	https://doi.org/10.54216/JISIoT
60.	Dr.S.Leelavathy, et.al.,	Data-Driven Decision-Making Use Case: Applying Big Data Analytics to Forecast Important Decisions	International Journal of Engineering, Science and Information Technology	Scopus	https://doi.org/10.52088/ijesty.v5i3.1122
61.	Mrs. M.Povaneswari et.al.,	Proactive Channel Assignment and Modified CR-AODV for Stability-Driven Multi-Hop Routing in Cognitive Radio Networks	Radio Engineering	Scopus	10.13164/re.2025.0674
62.	Mrs.V.Rekha, et.al.,	Automatic Multi-scale Dilated MobilenetV2 with Attention-Based Lung Nodule Detection Framework Using Adaptive 3D Trans-MobileUnet++ Segmentation	Sensing and Imaging	Scopus	10.1007/s11220-025-00644-z
63.	Mrs.P.Shyamala, et.al.,	An optimized deep learning framework based on LEE for real time student performance prediction in educational data	Bulletin of Electrical Engineering and Informatics (BEEI)	Scopus	https://doi.org/10.11591/eei.v14i5.9773

64.	Mrs. M.Vidhyasree. et.al.,	Harnessing Machine Vision Algorithms to Direct Car-T Cell Navigation Across Complex Tumor Landscapes in Next-Generation Immunotherapy	Trends in Immunotherapy	Scopus	https://doi.org/10.54963/ti.v9i4.1289
65.	Mrs.P.Ranjidha, et.al.,	Ai-Driven Routing Protocol in the Underwater Acoustic Sensor Network for Communication Systems	International Journal of Applied Mathematics	Scopus	https://doi.org/10.12732/ijam.v38i5s.315
66.	Dr.W.Gracy Theresa, et.al.,	Predictive Analytics for Plant Health using Machine Learning Techniques and Smart Farming Technologies	International Journal of Applied Mathematics	Scopus	https://ijamjournal.org/ijam/publication/index.php/ijam/article/view/856/791
67.	Mr.D.Sadhasivam, et.al.,	IoT-Monitored and Controlled Isolated Bipolar DC-DC Converter for Electric Vehicle Battery Charging System	International Energy Journal/Asian Institute of Technology	Scopus	https://doi.org/10.64289/iej.26.0103.9937356