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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

FACULTY JOURNAL PUBLICATIONS

ACADEMIC YEAR 2025-26

S. No	Authors Name (As Mentioned in the Article)	Title of the Paper	Journal Name	Publisher	Vol, Issue, Page No, Month , Year of publication	ISSN No.	DOI-Link	Indexed in SCIE/ WoS/ SCOPUS
1.	Praveena S. Prasanna Devi S.	Optimizing Retail Operations through Hybrid Machine Learning and Deep Learning Techniques in Demand Forecasting	Cybernetics and Systems	Taylor and Francis	Vol 57,1,2026	01969722	10.1080/01969722. 2025.2583968	SCIE
2.	Sethu Vinayagam T , Shanmugam C , Srinivasan V , Krishnamoorthy , Dr. V. Subedha , Dr.L. Jabasheela	Detecting Fake Images Generated by Gans Using Deep Convolutional Feature Analysis	IJDDT Journal	IJDDT	Volume 16 Issue 19s, April 2026	0975- 4415	10.25258/ijddt.16.1 9s.45	Scopus
3.	Rahul Akash S, Sridharan S , Sriniva V , Dr. M. Krishnamoorthy , Dr. V. Subedha , Dr. L. Jabasheela	A System for Direct Market Linkage and Post-Harvest Loss Prevention	IJDDT Journal	IJDDT	Volume 16 Issue 19s, April 2026	0975- 4415	0.25258/ijddt.16.19 s.44	Scopus



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4.	Josphineleela, R. Kumar, G.V.S. Ramesh, T., Balamurugan, K.S.	Optimized multiple object tracking with conformed graph neural network and narwhal optimizer for embedded system IoT and mobile edge computing	Ain Shams Engineering Journal	Ain Shams University	Oct-25	103581	https://www.sciencedirect.com/science/article/pii/S2090447925003223?pes=vor&utm_source=scopus&getft_integrator=scopus	SCIE
5.	S. Manikandan, T. Suma, P. Dhanalakshmi, K. C. Rajheshwari, V. Subedha	Gesture Language Recognition Through Computer Vision and a Spatial-Temporal Mathematical Model	International Journal of Basic and Applied Sciences	IJBAS	Vol 14,3,july 2025	22275053	10.14419/mwb8ve64	SCOPUS
6.	Simranjeet Nanda,Satya Sundar Gajendra Mohapatra,Rapaka Sudhir,Rashmi Gudur,Jagmeet Sohal, Jennifer D	Current Approaches for Reducing Treatment Toxicities in Radiotherapy Side Effects Management	Salud, Ciencia y Tecnología-a	Salud, Ciencia y Tecnología	Jul-25	2796-9711	https://sct.ageditor.ar/index.php/sct/article/view/1591/2739	SCOPUS
7.	S. Bharathidasan, V. Tamil Selvi, V. Sathiya, Francis H. Shajin	Reversible data hiding in encrypted images using graph neural networks with thumbnail preserving encryption	Signal, Image and Video Processing	Springer Nature	Jun-25	1863-1703	https://link.springer.com/article/10.1007/s11760-025-04253-x	SCIE
8.	Pahariya, Sakshi Kharadi, Meeta Gupta, Shikha Ghumman, Sukhman Sathiya V. Wawage, Vaishali Pawan	EVALUATING ARTISTIC AUTHENTICITY IN MACHINE-AIDED SCULPTURES	ShodhKosh: Journal of Visual and Performing Arts	Granthaalaya Publications	Vol 6,5s,Dec 2025	25827472	10.29121/shodhkosh.v6.i5s.2025.6898	SCOPUS



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9.	Aloni, Sukhada Shashank Kiran Ramesh Khandarkar Usha Nandini D. Yada, Pooja Gupta, Mridula Sathiya V. Bhise, Suhas	GENERATIVE ADVERSARIAL NETWORKS FOR PATTERN RECONSTRUCTION	ShodhKosh: Journal of Visual and Performing Arts	Granthaala yah Publications	Vol 6,5s,Dec 2025	25827472	10.29121/shodhkosh.v6.i5s.2025.6902	SCOPUS
10.	Mayuri A.V.R. Maniraj S.P. Duraisamy M. Murthy G.L.N. Garg, Kanika Sangeetha M.	A novel machine learning framework: cross transformer based optimization model for the detection and classification of brain tumor using clinical decision analysis	International Journal of Machine Learning and Cybernetics	Springer	9-Jul-25	18686478	https://link.springer.com/article/10.1007/s13042-025-02727-5	SCIE
11.	Mayuri A.V.R. Maniraj S.P. Duraisamy M. Murthy G.L.N. Garg, Kanika Sangeetha M.	TransDense121-UNet: a multi-scale transformer-based approach for accurate liver tumor segmentation	Evolving Systems	Springer	16,10 OCT2025	18688071	https://link.springer.com/article/10.1007/s12530-025-09720-x	SCIE
12.	Patel, Subhash Chandra Kamath, Rajesh N. Murthy T.S.N. Subash K. Avanija J. Sangeetha M	Enhancing Microscopic Image Quality With Diffusion Former and Crow Search Optimization	Microscopy Research and Technique	John Wiley and Sons	89,3, March 2026	1059910 X	10.1002/jemt.70072	SCIE
13.	Taluja, Anuradha Kumar, Harish Thangarasu, Jackulin Pingle, Yogesh Prabhaka	A blockchain-enabled quaternion evolutionary gravitational neocognitron neural network for securing IoT healthcare data in cloud	EVOLVING SYSTEMS	Springer Nature	16,3 ,Sep- 25	18686478	https://www.scopus.com/pages/publications/105010623171?origin=resultlist	SCIE



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	.	environment						
14.	Mohan, Manoharan Jackulin, Thangarasu Abuthahir, Syed Vishnu Sakthi D Ayyasamy, Karthikeyan	Hybrid Optimization Model for Congestion-Free Multipath Routing and Load Balancing in IoT	WEB INTELLIGENCE	SAGE Publications Ltd	23,3 Aug- 25	24056456	https://journals.sagepub.com/doi/10.1177/24056456251325289	SCIE
15.	Dani, Diksha Agrawal, Gaurav Kumaresan, Angappan Thangarasu, Jackulin	Multi-Class Classification and Feature Selection-Based Brain Tumor Detection Using Fast Point Dual-Channel Attention-Based Convolutional Neural Networks	BIOMEDICAL MATERIALS AND DEVICES	Springer Nature	Vol 4,1, March 2026	27314812	https://link.springer.com/article/10.1007/s44174-025-00377-3	SCIE
16.	JACKULIN.T	Exploring the Potential of Nanoparticles for Targeted Drug Delivery in Cancer Treatment	HEALTH LEADERSHIP AND QUALITY OF LIFE	SPRINGER	8/29/2025		https://hl.ageditor.ar/index.php/hl/article/view/865	Scopus
17.	Upadhyay, J., Nanda, S., Nayak, G., Sindha, Y., T. Jackulin, Ahmad Wani, T. , & Khemnari, V. R.	DIGITAL AESTHETICS IN THE AGE OF MACHINE LEARNING	ShodhKosh: Journal of Visual and Performing Arts	Granthaalaya Publications	Vol 6,5s, Dec 2025	25827472	https://doi.org/10.29121/shodhkosh.v6i5s.2025.6892	Scopus
18.	M. Therasa, A. Padmashree , Juli Amala Rani Jeeva , M. Amutha	Brain Tumor Classification Using Dynamic Path-Controllable Deep Unfolding Network Optimized Using Duck Swarm Algorithm	Biomedical Materials & Devices	Springer Nature	28-Sep-25		https://link.springer.com/article/10.1007/s44174-025-00505-z	Scopus
19.	C. Premila Rosy, S. Yazhinian, M. Therasa, K.R. Surendra, Anand	A novel channel estimation of MIMO-OFDM using hybrid bionic binary	International Journal of Cognitive Computing in Engineering	KeAi Communications Co.,	8 September 2025	2666- 3074	https://www.scopus.com/pages/publications/10501688336	Scopus



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	· Karuppannan ,A. Manikandan	spotted hyena optimization		Ltd.			3?origin=resultslist	
20.	Dr.M.Shanmuganathan	Cloud computing's multi-key privacy-preserving deep learning system	International Journal of Electronic Security and Digital Forensics	Inderscience Publishers	SEP 1 , 2025	1751-911X	https://www.inderscienceonline.com/doi/abs/10.1504/IJESDF.2025.148237?journalCode=ijesdf	Scopus
21.	M. Ramkumar Raja, P.J. Sathish Kumar, Jayaraj Velusamy and Krishnan Somasundaram	Attention segmental recurrent neural network optimised with sheep flock optimisation-based intrusion detection framework for securing IoT	International Journal of Bio-Inspired Computation	INDERSCIENCE	May 28, 2025	17580366 , 17580374	https://www.inderscienceonline.com/doi/10.1504/IJBIC.2025.146393	SCIE
22.	Sumithra A. Prathap, P.M. Joe Karthikeyan A. Dhanasekaran S.	Improving brain tumor diagnosis: A self-calibrated 1D residual network with random forest integration	Brain Research	Elsevier B.V.	Sep-25	68993	https://www.scopus.com/pages/publications/105007036208?origin=resultslist	Scopus
23.	Murugan Marimuthu, Padmaja Kadiri, Senthilkumar Ganapathy , Venkatesh Kumar Pandiyand	Energy efficient optimization of renewable energy dispatch using blockchain-verified deep reinforcement learning controllers	Sustainable Computing: Informatics and Systems	ELSEVIER	Vol 48,Dec 2025	2210-5387	https://www.sciencedirect.com/science/article/abs/pii/S2210537925001775	SCIE & SCOPUS
24.	Kalaimani M, Leo Prasanth L, Selvin Ebenezer S, Gobinathan N4,Veeramanikandan K, Bharathi V	Generative AI-Driven Cultural Content Classification for Adaptive Web Applications	Journal of Applied Bioanalysis	Journal of Applied Bioanalysis (JAB)		ISSN: 2405-710X	http://doi.org/10.53555/jab.v11i5.583	Scopus



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25.	Jayalekshmi M.B, Suvarnamukhi, Dr. P. Gomathi, G. Senthilkumar	DECENTRALIZED FEDERATED LEARNING FOR IOT IN RENEWABLE ENERGY SYSTEMS	International Journal of Applied Mathematics	Diogenes Co. Ltd.	VOL 38,NO.5 ,2025	1314- 8060	https://doi.org/10.12732/ijam.v38i5.962	SCOPUS
26.	Geetha Anbazhagan, U. Hemalatha, V. Sudha, J. Santhakumar, Usha S	A Privacy -Preserving Energy Management Strategy for Hybrid Storage Systems with Federated Learning Algorithm	JOURNAL OF NANO- AND ELECTRONIC PHYSICS	jnep	VOL 17,DEC 2025	2306- 4277	https://jnep.sumdu.edu.ua/en/component/content/full_article/4223	SCOPUS
27.	Yamunadevi S	AI-BASED RESTORATION OF ANCIENT SCULPTURES	Journal of Visual and Performing Arts	Granthaala yah Publication s and Printers	VOL 5,JAN 2026	2582- 7472	https://doi.org/10.29121/shodhkosh.v6.i5s.2025.6878	SCOPUS
28.	R. Jayalakshmi & T. Tamilvizhi	Privacy preservation in diabetic disease prediction using federated learning based on efficient cross stage recurrent model	Scientific Reports	Nature Portfolio	(2025) 15:37258	2045- 2322	https://www.nature.com/articles/s41598-025-21229-6	SCIE
29.	Raenu Kolandaisamy, A. Arun Kumar, A.N. Sasikumar, V. Sivakumar, G.K. Kamalam, M.K. Mohamed Faizal, Muhammad Mohzary	Energy efficient optimization of peer-to-peer energy exchanges in microgrids using blockchain-enabled federated learning	Sustainable Computing: Informatics and Systems	Elsevier	49	2210- 5379	https://www.sciencedirect.com/science/article/abs/pii/S2210537925002112?via%3Dihub	SCIE
30.	Gunasekaran Thangavel,	Energy efficient optimization of	Sensors International	Elsevier	7	26663511	https://www.scienc	Scopus



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	V. Joseph Michael Jerard, K. Manivannan, A.N. Sasikumar, Vairaprakash Selvaraj, Manjunathan Alagarsamy	peer-to-peer energy exchanges in microgrids using blockchain-enabled federated learning					edirect.com/science/article/pii/S2666351125000324?via%3Dihub	SCIE
31.	Dr.S.Balaji	Radiopharmaceutical Innovations for Precision Imaging and Treatment of Malignant Tumors	Journal of Cancer Research Updates	JCRU	Dec-25	19292260	10.30683/1929-2279.2025.14.22	SCOPUS
32.	Dr.S.Balaji	THE FUTURE OF DIGITAL BRANDING THROUGH GENERATIVE MEDIA	Shodhkosh Journal of Visual and Performing Arts	Granthaalayah Publications	Jan-26	25827472	10.29121/shodhkosh.v6.i5s.2025.6895	SCOPUS
33.	Dr.S.Balaji	PREDICTING AUDIENCE ENGAGEMENT IN DIGITAL CAMPAIGNS USING AI	Shodhkosh Journal of Visual and Performing Arts	Granthaalayah Publications	Jan-26	25827472	10.29121/shodhkosh.v6.i5s.2025.6894	SCOPUS
34.	Karthikeyan, A.; Jackulin, C.; Mahendran, M.; Karthikeyaraj, G.; Uma, R.; Sathish, N.	A Disentangled Representation-Based Multimodal Fusion Framework to Detect Colorectal Cancer	International Journal of Nutrition, Pharmacology, Neurological Diseases	Wolters kluwer	Vol 16,1, March 2026	22310738	10.4103/ijnpnd.ijnpnd_181_25	SCOPUS
35.	Mahendran, M.; Karthikeyan, A; Hari Krishnan, M.; Kaviarasan, S.; Basha, K. Hazeer Shabbeer;	Early Parkinson's disease diagnosis for analyzing handwritten spiral and wave images using deep learning models	International Journal of Nutrition, Pharmacology, Neurological Diseases	Wolters kluwer	Vol 16,1, March 2026	22310738	10.4103/ijnpnd.ijnpnd_235_25	SCOPUS



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	. Sangeetha, K							
36.	A. Kanchana, Rashmitha Khilar	A Robust Computational Framework for Autism Spectrum Disorder Identification Using Optimized Image Processing and Hybrid Learning Models	Developmental Neurobiology	Wiley	Vol.86, issue 2, march 2026	1932-846X	https://doi.org/10.1002/dneu.70028	SCIE
37.	V. Ravikumar, G. Umarani Srikanth, Manigandan S K & A. Vishnukumar	Res-K2G-MAN: a residual knowledge graph attention framework for intrusion detection in online music education over public cloud networks	International Journal of Information Technology	springer	vol.17,OCT 2025	2511-2112	https://doi.org/10.1007/s41870-025-02797-2	SCOPUS
38.	Bala, Abirami B G. Umarani Srikanth	An IoT-Cloud-Based Detection Approach of Generalized Seizure across Ages Using Harmonic-Guided Neural Networks with Edge Optimization	SSRG International Journal of Electronics and Communication Engineering	SSRG	VOL 12,8 , AUGUST 2025	23488549	10.14445/23488549/IJECE-V12I8P122	SCOPUS
39.	Gopalakrishnan,	Identify Vulnerability of Adversarial	International Journal of	Intelligent	VOL	2185310	10.22266/ijies2025.	SCOPUS



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	Amudha, Joseph, Nalini; G. Umarani Srikanth	Attack on Medical Images Using Deep Residual Shrinkage Network with Total Variation Loss Function	Intelligent Engineering and Systems	Network and Systems Society	18,6,JULY 2025	X	0731.31	
40.	Gopalakrishnan, Amudha, Joseph, Nalini; G. Umarani Srikanth	Identify Vulnerability of Adversarial Attack on Chest X-Ray Image Using Hybrid Refinement - Generative Adversarial Network with Convolutional Block Attention Module	International Journal of Intelligent Engineering and Systems	Intelligent Network and Systems Society	VOL 18,5,JUNE 2025	2185310 X	https://inass.org/wp-content/uploads/2025/03/2025063044-2.pdf	SCOPUS
41.	G. Umarani Srikanth, Lijetha C. Jaffrin, Sushmitha Srikanth and Shyam Ramesh	Tackling data sparsity: a hybrid filtering paradigm for robust recommender systems	International Journal of Data Analysis Techniques and Strategies	INDERSCIENCE	Vol. 17, No. 2, JULY 2025	17558050	10.1504/IJDATS.2025.147515	SCOPUS
42.	Valarmathi K; Mageshwari M; Prabakaran N; Rajendran, Surendran	Food wastage Analysis Framework using Comprehensive IoT-Based Multi-Sensor	Global Nest Journal	Global NEST	Vol 27,10,dec 2025	17907632	10.30955/gnj.07826	SCIE



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43.	Krishnan, Sangeetha K, Valarmathi	Hybrid optimization-enhanced deep learning for effective diabetic retinopathy classification using OCT images: A step towards accessible and affordable healthcare solutions	Biomedical Signal Processing and Control	Elsevier	VOL 109, NOV 2025	17468094	10.1016/j.bspc.2025.107920	SCIE
44.	Hema Priya K Valarmathi K	Intelligent Fusion of Heuristically Optimized DCNN with Weighted Optimized DNN for Thyroid Disorder Prediction Framework	International Journal of Information Technology and Decision Making	World Scientific	vOL 24,5, JULY 2025	02196220	10.1142/S0219622025500105	SCIE
45.	Hema Priya K Valarmathi K	Big data-driven optimal weighted fused features-based ensemble learning classifier for thyroid prediction with heuristic algorithm	J Comb Optim	Springer	Vol 49,4, May 2025	13826905	10.1007/s10878-025-01304-4	SCIE
46.	B. Ramesh V. V. Kulkarni Ashwini Shinde Dinesh Kumar J R, Prasanthi Kumari Nunna Rajendiran M , Navdeep Kumar Hanumantu, Lalitha Chada	Optimizing EV Energy Management Using Monarch Butterfly and Quantum Genetic Algorithms	International Journal of Basic and Applied Sciences	IJBAS	VOL 14,2, May 2025	22275053	10.14419/xaqk1294	Scopus



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47.	Ilangovan Arun , Sarange Shreepad Marotrao , Vipin Sharma , Sivakumar Karthikeyan , Zakir Hussain , P. Veeramanikandan , M. Venkatesulu , Rajendiran M	Microstructural and elemental evolution of directed energy deposited in conel 825 under hot corrosion	Journal of Alloys and Metallurgical Systems	Elseiver	Vol 12, Dec 2025	29499178	https://doi.org/10.1016/j.jalmes.2025.100222	SCIE
48.	P. R. Therasa, Tapas Babu B R, P. J. Sathish Kumar, D. M. Kalai Selvi	Fortifying Internet of Things Security: Employing Deep Learning for Privacy-Preserving Data Transmission in Clustered Environments	International Journal of Communication Systems	Wiley	Vol 39,issue 4, March 2026	10745351	10.1002/dac.70411	SCIE
49.	Mani, Mayuranathan Baskar, Dhivya Pakkarisamy Janakiraman, Sathish Kumar Rajendran, Surendran	MODERN AGRICULTURE SYSTEMS: ENHANCING PRECISION FARMING THROUGH ADVANCED AERIAL TECHNIQUES	Agrociencia	Colegio de Postgradua dos	Vol 59,8,Nov 2025	14053195	10.47163/agrociencia.v59i8.3551	SCIE



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50.	Balaji, Vivek Balamurugan, Karuppaiya Sathaiah Thanarajan, Tamilvizhi Selvi Sundarapandi, Arun Mozhi	MACHINE LEARNING-BASED CROP RECOMMENDATION SYSTEM INTEGRATING SOIL PROPERTIES AND WEATHER CONDITIONS WITH IOT-DRIVEN DATA COLLECTION	Agrociencia	Colegio de Postgradua dos	Vol 60,1,Jan 2026	14053195	10.47163/agrociencia.v60i1.3428	SCIE
51.	Selvanarayanan, R. Janarthanan, M. Vocaturu, E. Thanarajan, Tamilvizhi Rajendran, S.	MACHINE VISION HYPERGRAPH NEURAL NETWORKS FOR EARLY DETECTION OF DAMPING-OFF AND ROOT ROT DISEASE IN COFFEE PLANTATIONS	Agrociencia	Colegio de Postgradua dos	Vol 60,1,Jan 2026	14053195	10.47163/agrociencia.v60i1.3486	SCIE
52.	Lincy Jemina, S. Thanarajan, Tamilvizhi	An intelligent brain tumor detection model using lightweight hybrid twin attentive pyramid convolutional network	Scientific Reports	Nature Research	Vol 15,1,Dec 2025	20452322	10.1038/s41598-025-23813-2	SCIE
53.	Yuvarani R. Mahaveerakannan R.	Energy-aware cluster head	Scientific Reports	Nature Research	Vol 15,1,Dec	20452322	10.1038/s41598-025-15462-2	SCIE



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	Thanarajan, Tamilvizhi Kartheesan L.	optimization and secure blockchain integration for heterogeneous 6G-enabled IoMT network			2025			
54.	Maruthai, Suresh Selvanarayanan, Raveena Thanarajan, Tamilvizhi Rajendran, Surendran	Hybrid vision GNNs based early detection and protection against pest diseases in coffee plants	Scientific Reports	Nature Research	Vol 15,1,Dec 2025	20452322	10.1038/s41598-025-96523-4	SCIE
55.	Alotaibi, Youseef Nagappan, Krishnaraj Thanarajan, Tamilvizhi Rajendran, Surendran	Optimal deep learning based vehicle detection and classification using chaotic equilibrium optimization algorithm in remote sensing imagery	Scientific Reports	Nature Research	Vol 15,1,Dec 2025	20452322	10.1038/s41598-025-02491-0	SCIE
56.	Vinayagam, Jananee Baskar, Dhivya Thanarajan, Tamilvizhi; Rajamanickam, Mahendran	BLOCKCHAIN-BASED CROP MONITORING USING AN INTERPLANETARY FILE SYSTEM	Agrociencia	Colegio de Postgradua dos	Vol 59,8,Nov 2025	14053195	10.47163/agrociencia.v59i8.3553	SCIE
57.	Maruthai, Suresh Thanarajan, Tamilvizhi Ramesh T. Rajendran, Surendran	Multi-axis transformer based U-Net with class balanced ensemble model	Journal of X-ray science and technology	SPRINGE R	Vol 33,3, May 2025	10959114	10.1177/08953996251317416	SCIE



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	.	for lung disease classification using X-ray images						
58.	Liya B.S. Indumathy P. Hemlathadhevi A. Dharaniya R	Cascaded Adaptive Dilated Temporal Convolution Network-Based Efficient Sentiment Analysis Model from Social Media Posts	International Journal of Image and Graphics	World Scientific	Vol 26,3,may 2026	02194678	10.1142/S0219467826500154	SCIE
59.	Hemlathadhevi, Dr. A. Paranthaman, Indumathy Agoramoorthy, Moorthy Palani, Dr. Hari Kumar	An efficient vision transformer-based 3D adaptive residual densenet with gated recurrent unit for early detection of alzheimer disease from magnetic resonance imaging	Expert Systems with Applications	Elsevier	Vol 298, March 2026	09574174	10.1016/j.eswa.2025.129638	SCIE
60.	Moorthy Agoramoorthy, S. Maheswari, A. Hemlathadhevi and Hari Kumar Palani	Blockchain-empowered secure localisation scheme in WSN using trust assessment and deep adaptive extreme learning	International Journal of Wireless and Mobile Computing	INDERSCIENCE	Vol. 29, No. 3		10.1504/IJWMC.2025.148585	SCIE
61.	Patidar, Mukesh Prakash, Om Goyal, Gopal	AI-DRIVEN SIMULATION OF	Shodhkosh Journal of Visual and Performing	Granthaalaya Publication	Vol 6,5s,Dec 2025	25827472	10.29121/shodhkosh.v6.i5s.2025.6897	Scopus



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	Gupta, Suhas Deshpande, Anupama Abhijeet Maheswari M.	MATERIAL BEHAVIOR IN SCULPTURAL ARTS	Arts	s				
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