



PANIMALAR ENGINEERING COLLEGE

DEPARTMENT OF COMPUTER SCIENCE AND BUSINESS SYSTEMS

FACULTY PUBLICATIONS IN REFEREED JOURNALS (2025-26)

S.No	Authors	Paper title	Journal name	Publisher Name	Volume No, Issue No & Page No.	ISSN No	DOI link	Impact Factor (Clarivate)	Indexing (Scopus/WOS)
1	S.HEMALATHA , V.SEETHALAKASHMI , PULLELA SVVS R KUMAR , TAVANAM VENKATA RAO , DR.G. ANUREKHA , MS. B YAMINI SUPRIYA	SIGNAL PROCESSING IN MANET SMART ANTENNAS	Journal of Theoretical and Applied Information Technology	Little Lion Scientific	103,12, 5031-45, 2025	1992- 8645	https://www.jatit.org/volumes/Vol103No12/3Vol103No12.pdf	0.19	Scopus
2	S. Hemalatha , K. V. S. V. Trinadh Reddy , Tavanam Venkata Rao , T. Ramaswamy , N. Muthuvairavan Pillai ,G. Krishna Mohan	Advancing Autonomous Systems: A Review of Emerging Trends in Robotics	Journal Europeen des Systemes Automatisees	International Information and Engineering Technology Association	Vol. 58, Iss. 5, (May 2025): Page.913- 921	1269- 6935	https://www.proquest.com/openview/66e671fa319dafb6d5baaa760b687a371?pq-origsite=scholar&cbl=2069456	2.1	Scopus



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3	S. Hemalatha , K.V.S.V. Trinadh Reddy Ramaswamy T., R. V. V. Krishna , P. Supriya , and S. N. Ananthi	Enhancing MANET Security Using AI-Driven Intrusion Detection Systems	Journal of Communications	Engineering and Technology Publishing	Volume 20, No. 4, 2025 Pp,371-383	1796-2021	https://www.jocm.us/show-319-2088-1.html#:~:text=This%20paper%20proposes%20AI%20drive%20n.identify%20and%20mitigate%20security%20threats	0.24	Scopus
4	S. Hemalatha , Kiran Mayee Adavala, Pallela SVVSR Kumar P. Kumaravel,N. Muthuvairavan Pillai,G. Krishna Mohan	An Architectural Framework for Telemedicine Systems: Components, Roles, and Implementation Challenges	Telehealth and Medicine Today	Partners in Digital Health	Vol. 10 No. 3 (2025), Pp:1-10	2471-6960	https://tehealthandmedicinetoday.com/index.php/journal/article/view/596	2.0	Scopus



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5	Dr.S.Hemalatha, Trinadh Reddy, Tavanam ventkatarao, ramasamy , sheti, naga malleshwari	Hybrid Lightweight Cryptographic Framework for Enhancing Security and Efficiency in Healthcare Wireless Sensor Networks	International Journal of Safety and Security Engineering	International Information and Engineering Technology Association	15,9,1797 - 1807	2041-9031	https://www.iieta.org/journals/ijssse/paper/10.18280/ijssse.150904	2.9	Scopus
6	Dr.S. Hemalatha T. Thilagam Surya Lakshmi Kantham Vinti B. U. Anu Barathi B. Yamini Supriya Jyoti D. Shendage	A Framework for Enhancing Transparency and Security in Telehealth Record Access Using Dual- One-Time Passwords	International Journal of Safety and Security Engineering	International Information and Engineering Technology Association	Vol.15,Issue No.11, pp. 2367- 2378	2041-9031	https://iieta.org/journals/ijssse/paper/10.18280/ijssse.151117	2.9	Scopus



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[7]	DR.S. HEMALATHA, DR. VIJAYA KUMBHAR, SURYA LAKSHMI KANTHAM VINTI , K. PADMAPRIYA , DR.S. MURUGANANDAM, S. K. SATYANARAYANA	[AN INTELLIGENT PRIORITY-BASED TELEMEDICINE ALGORITHM FOR REAL-TIME EMERGENCY HEALTH MANAGEMENT IN MILITARY ENVIRONMENTS]	Journal of Theoretical and Applied Information Technology	Little Lion Scientific	Vol. 104, Issue No.4 Pg.121-135	1992-8645	https://zenodo.org/records/18822763	1.4	Scopus
8	S.Hemalatha, Nirpendra das, Arun Kumar, Chanran singh	Energy aware trust based routing in MANET using swarm intelligence technique	Scientific reports	Springer Nature	Scientific Reports volume 16, Article number: 3666 (2026) 09 January 2026	2045-2322	https://www.nature.com/articles/s41598-025-33702-3	6.7	WoS



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[9]	DR.S. HEMALATHA, DR. VIJAYA KUMBHAR, SURYA LAKSHMI KANTHAM VINTI , K. PADMAPRIYA 4, DR.S. MURUGANANDAM, S. K. SATYANARAYANA	[AN INTELLIGENT PRIORITY-BASED TELEMEDICINE ALGORITHM FOR REAL-TIME EMERGENCY HEALTH MANAGEMENT IN MILITARY ENVIRONMENTS]	Journal of Theoretical and Applied Information Technology	Little Lion Scientific	28th February 2026. Vol.104. No.4	1817-3195	https://www.jatit.org/volumes/Vol104No4/9Vol104No4.pdf	0.19	Scopus
10	S. HEMALATHA1, DR.P.ARIVUBRAKAN ,PONNURU ANUSHA, SURYA LAKSHMI KANTHAM VINTI , JYOTI D. SHENDAGE, PRAMODKUMAR H KULKARNI	DEEP LEARNING APPROACHES FOR THE DEVELOPMENT OF INSECT- AND MOULD- RESISTANT PAINTS: AI-DRIVEN FORMULATION AND OPTIMIZATION	Journal of Theoretical and Applied Information Technology	Little Lion Scientific	31st May 2025. Vol.103. No.10	1992-8645	https://www.jatit.org/volumes/Vol103No10/3Vol103No10.pdf	0.19	Scopus



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11	S. Hemalatha Govindharaju Karthi Mary Selvan A. Gnanasekar S. K. Satyanarayana Bondalapu Chaitanya Krishna	Secure-Privacy-Ethical-Legal Governance Framework for Triage-Centric Telemedicine	International Journal of Safety and Security Engineering	IIETA	Vol. 16, No. 1, January, 2026, pp. 237-248	2041-904X	https://www.iieta.org/journals/ijsse/paper/10.18280/ijsse.160120	2.9	Scopus
12	Rawat, Manoj Kumara, Gulati, Sagar b; Kumar, Sumit c Selvakumar S. Kumar Kusumanchi T.P.S.	Human-Computer Interaction Based on the Function of Management Information Systems in Business	International Journal of Basic and Applied Sciences	Science Publishing Corporation Inc.	14,2,100-106	2301-8038	https://www.sciencepubco.com/index.php/IJBAS/article/view/33654	0.25	Scopus



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13	S. Nagadevi,G. Abirami,R. Vidhya, S. Selvakumar , C. Vijayalakshmi	XGBoost-Based Demand Forecasting in Supply Chain Management Using Machine Learning Algorithm	International Journal of Interactive Mobile Technologies (iJIM)	International Federation of Engineering Education Societies (IFEES)	. VOL. 19 NO. 18 (2025) Pp:161-174	1865-7923	https://online-journals.org/index.php/ijim/article/view/57253	0.4	Scopus
14	V. D. M. Jabe, A. Ahilan,Chukka Santhaiah, Vignesh Thangathurai	CMANC Net: Fennec Fox Optimized CNN-BiLSTM Network for Real Time and Complex Multitude Active Noise Cancellation	Circuits, Systems, and Signal Processing	Springer Nature	05 October 2025	1531-5878	https://link.springer.com/article/10.1007/s00034-025-03303-6	2.0	SCIE



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15	S. K. Muthusundar, Nallusamy R, Shri Vindhya A, Vignesh T	Wireless Sensor Networks Security Using SACCGAN-RSA in a Novel Deep Learning-Based Intrusion Detection Framework for Enhancing	International Journal of Communication Systems	Willy	Vol. 39,4, Pg:1-16	1099-1131	https://onlinelibrary.wiley.com/doi/10.1002/dac.70397	6.1	SCIE
16	M. Vamsikrishna J. Seetha M. Sakthivel A Hanumat Prasad Maithili K Chunduri Lavanya	[Study of an Advanced DDS for Improving Efficacy and precision of Healthcare Innovation]	[Journal of Neonatal Surgery]	Science Publishing Corporation Inc.	Volume 14 12s(2025) 255-264	2226-0439	https://jeonatalsonline.com/index.php/jns/article/view/3149	1.4	Scopus



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17	DR. E. PUNARSELVAM, DR.T. RAMESHKUMAR, MIHIRKUMAR B. SUTHAR, DR.SEETHA J , K. PRAKASH, SEEMA AGGARWAL, DR. DIVYA SHARMA, DR. B. USHA, DR. T. VENGATESH	[TRANSFORMING ENVIRONMENT AL SCIENCE WITH DATA DRIVEN MODELS: THE ROLE OF MACHINE LEARNING AND DEEP LEARNING]	TPM - Testing, Psycho metrics, Method ology in Applied Psychology	Cises srl	Vol. 32, No. S8, Pg:2307- 2317	1972 6325	https://tpmap.org/submission/index.php/tpm/article/view/3211/2398	1.4	Scopus
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18	KHANNA, M. RAJESH; DINDA, SATYA GOPAL; BHARATHI, K. SOWJANYA; DEEPA, P.; PARASA, GAYATHRI; SEETHA, J. ; SRUTHI, ANUMULA	AI-POWERED SMART IRRIGATION: REAL-TIME DATA AND IoT INTEGRATION FOR EFFICIENT WATER MANAGEMENT IN PRECISION AGRICULTURE	Journal of Environment al Protection and Ecology	Scibulcom Ltd.	Vol. 26, No 7, 2694 - 2703	2694 2703	https://scibulcom.net/en/article/1311-5065-2025-26-7-2694-2703	1.3	Scopus
19	Dr.Shubhashree Sahoo, G.B.Hima Bindu, Dr.T.Vengatesh, P.Boomi, Dr. Seetha J, Dr.Prajwalasimha S N, Saint Jesusdoss.S, Dhananjay Shripad Rakshe	[A Deep Learning System For The Automated Detection And Segmentation Of Abdominal Aortic Aneurysm From Computed Tomography Angiography]	Vascular and Endovascular Review	SCARLE T PUBLISH ING SOLUTIO NS CO. L.L.C. UAE.	Vol. 8, No.16s, 251 -259	2516 3299	https://vejournal.com/index.php/ver/article/view/1209/1016	3.2	Scopus



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20	Dr. Dharma Teja Lanka , Dr. Seetha Jayaraman , Ganesan M , Anantharamaiah Vengala , Dr. Sreenivas Mekala , Dr. Goteti Chaitanya	An Efficient Machine Learning Based Approach for Early Detection of Network Intrusion Attacks	International Journal of Drug Delivery Technology	DYR Labs Pvt. Ltd.	16,3s, 229-235, March 2026	0975 4415	https://impactfactor.org/PDF/IJDDT/16/IJDDT,Vo116,Issue3s,Article30.pdf	1.2	SCOPUS
21	A. Swaminathan R. aravanan, Baskar Kasi S. Ramaraju	A Novel Distributed Learning Approach for Detecting Covert Communications in Wireless Sensor Networks	Concurrency and Computation: Practice and Experience	Wiley	Volume 37, issue 15-17 ,2025 Pp:1-21	1532- 0634	https://papers.ssrn.com/sol3/papers.cfm?abstract_id=536595	5.4	SCIE



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22	R.Pitchandi , Dr. A. Swaminathan	[An Enhanced Source Location Privacy Protection Scheme for WSNS Using Multi Phantom Differential Delay]	Dianwang Jishu/Power System Technology	Power System Technology Press	Volume 49 Issue 3 (August 2025),1-20	1000-3673	https://povertechjournal.com/index.php/journal/article/view/2736/1962	8.4	Scopus
23	S. Senthil Pandi, A. K. Reshmy, S. Muruganandam	Hybrid Crossover Oppositional Firefly Optimization for Enhanced Deep Transfer Learning in Plant Leaf Disease Classification	Journal of Crop Health	Springer Nature	Volume 77 article number 146, (2025) pp. 1-16	2948-264X	https://link.springer.com/article/10.1007/s10343-025-01205-w	5.1	WoS



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[23]	Dr.A.BARAKATH BEGAM, Dr.A.BHUVANESHWARI, Dr.J.JENIFER, Dr.S.VEERAPANDI, Dr.S.MURUGANANDAM, PRAJWALASIMHA S N, POTHUMARTHI SRIDEVI, Dr.L.THENMOZHI, DR.T.VENGATESH	[REAL-TIME CONTEXT AWARE VARIABLE STRENGTH CRYPTOGRAPHY FOR CLOUD STORAGE]	Journal of Theoretical and Applied Information Technology	Little Lion Scientific	Vol.104. No.5	1992-8645	https://doi.org/10.5281/zenodo.19136602	0.19	Scopus
24	Manjunathan Alagarsamy, Jeevitha Sakkarai, E. Mariappan, K. Malathi, G. K. Kamalam, Arun Anthonisamy, Faisal Alshanketi, and A. Rajaram	Dynamic Attention-Augmented Neural Network for Accurate and Efficient Brain Tumor Classification and Segmentation Using MRI	International Journal of Pattern Recognition and Artificial Intelligence	World Scientific	Vol. 39, No. 10, 2557005 (2025)	0218-0014	https://doi.org/10.1142/S0218001425570058	1.1	Scopus



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25	Rajakani, M.; Joshua, R. Roshan; Shanmugaiya, Sakkaravarthi; Chitra, R. Jothi; Faizal, M. K. Mohamed; Anthonisamy, Arun; Philip, Jim Mathew; Rajaram, A	Birth Defects Diagnosis and Classification Using Hybrid Deep Learning through the Three-Dimensional Ultrasound Equipment	Journal of Environmental Protection and Ecology	Scientific Bulgarian Communications	26,3, 1083 - 1093	1311-5065		1.3	Scopus
26	Rajan, Sheeba Madhukumar, Aryasree Anthonisamy, Arun Reenadevi R.Sridivya, Rayavarapu Muruganantham T. Philip, Jim Mathew Rajaram A.	Resilience-Oriented Decision Support System for Ecosystem Management: Integrating Machine Learning and Participatory Modelling	Journal of Environmental Protection and Ecology	Scientific Bulgarian Communications	Volume 26 Issue 3 Pages 1001-1010	1311-5065	https://www.scopus.com/pages/publications/105009370535?origin=resultslist	1.3	Scopus



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27	Dr.Gowdham C Dr.John Deva Prasanna D S Arun Anthonisamy A	Secure-energy efficient hybrid optimal cluster-based routing with improved AES in WSN for secure data transmission	Peer-to-Peer Networking and Applications	Springer	19-55, March 2026	1936-6442	https://link.springer.com/article/10.1007/s12083-026-02196-9	8.6	WoS
28	Dinesh Paramathi Mani, C. Kotteeswaran, A. Anbu Megelin Star, Arun Anthonisamy , Manjunathan Alagarsamy	Symmetrical Y-Resonator Plasmonic Metasurface with Machine-Learning-Assisted THz Sensing for Ultra-sensitive and Label-Free Terahertz Detection of Bacterial Contamination in Water	Sensing and Imaging	Elsevier	Volume 51, February 2026, 100968	2214-1804	https://doi.org/10.1016/j.sbsr.2026.100968	9.5	WoS



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29	Shamija Sherryl RMR, Sudhan MB, Deeptha R, Thamizharasi M, Vidyasri P	A phase-aware Cross- Scale U- MAMba with uncertainty- aware segmentation and Switch Atrous Bifovea EfficientNetB7 classification of kidney lesion subtype	Lasers in Medical Science	Springer Nature	Volume 40, article number 398, (2025)	1435- 604X	https://link.springer.com/article/10.1007/s10103-025-04644-z	4.4	SCIE/ Scopus
[30]	C. Kotteeswaran Premkumar Ramu J. Nithya V. Kumar Mohan Rajeshwari Ramaiah Murugesan Manjunathan Alagarsamy Mana Donganont Prasanta Raut	[Neutrosophic- Integrated Machine Learning Framework for Uncertainty- Aware Diagnosis and Decision Support in Dental Health]	Neutrosophic Sets and Systems	University of New Mexico	Vol. 90, pp. 1027– 1041	2331- 6055	https://digitalrepository.unm.edu/ns_journals/vol90/iss1/67/	2.4	Scopus



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[31]	G.Amirthayogam, Deepak R., M. Preethi Ram, Nithya J. , Anwar Basha H., Sriman B., R. Sundar	[Deep belief network classification model for accurate breast cancer detection and diagnosis]	Indonesian Journal of Electrical Engineering and Computer Science	Institute of Advanced Engineering and Science (IAES)	Vol. 39, Iss.No. 3, pp. 1900– 1912	2502- 4752	https://ijeecs.iaescore.com/index.php/IJEECS/article/view/40719	2.40	Scopus
32	Renuka Nyayadhish, Chaya Jadhav, Ch Bhupati, R.A. Mabel Rose , M Prabhu	Fake News Detection in Model Integral: A Hybrid CNN- BiLSTM Model	International Journal of Engineering, Science and Information Technology	Springer	Vol.5,No. 3 (2025) pp. 337-343	2775- 2674	https://ijesty.org/index.php/ijesty/article/view/1058	1.4	Scopus



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33	C. Pushpalatha , M. Ramya Devi , R. A. Mabel Rose N. Muthukumaran	Penta Classification of Landslide Via Deep Learning Based SegNet and RegNet	International Journal of Computational Intelligence Systems	SPRINGER NATURE	Vol 19, Issue No:56 Pg.No1-17	1875- 6891	https://link.springer.com/article/10.1007/s44196-025-01114-w?utm_source=getftr&utm_medium=getftr&utm_campaign=getftr_pilot&utm_integrator=scopus	5.5	SCIE



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34	Selvanarayanan, Raveena, Surendran Rajendran, Mohammad Zakariah, and Abeer Alnuaim.	Purifying Kopi Luwak beans with precise RL-based proximal policy optimization using visual transformer with FRD	Egyptian Informatics Journal	Elsevier	Volume 31, September 2025, 100737	1110-8665	https://www.sciencedirect.com/science/article/pii/S1110866525001306	4.3	SCIE/Scopus
35	Karthik Selvaraj Raveena Selvanarayanan Sam Kumar Gopalsamy Venkatesan Surendran Rajendran	Future-Proof Coffee Plant Disease Detection Based on Counter-Factual Recommendation With A Hybrid Vision Transformer and Convolutional Neural Network Model	Agrociencia	Colegio de Postgraduados		1405-3195	https://www.agrociencia-colpos.org/index.php/agrociencia/article/view/3385	0.6	SCIE/Scopus



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36	Sridharan Sivasubramanian, Tamilvizhi Thanarajan, Raveena Selvanarayanan , Surendran Rajendran	Inspection of pollination transfer and success in coffee flowering detection using intersection over union based cascade RCNN in a vision environment	Scientific Reports	SpringerNature	1-26, March 2026	2045-2322	https://www.nature.com/articles/s41598-026-42347-9	6.7	SCIE/Scopus
37	DR.A. AZHAGAMMALI T. KARTHIKEYAN KROVVIDI S B AMBIKA JAKKAPU NAGALAKSHMIDEVI RAYAVARAPU SRIDIVYA DR.T. VENGATESH DR.S.S. ANANTHAN POTHUMARTHI SRIDEVI	Automated Detection of Multiple Sclerosis Lesions in MRI Using An Explainable Ai Framework With Hierarchical Feature Fusion	Journal of Theoretical and Applied Information Technology	Little Lion Scientific	Vol.103. No.21, pp 9094, 2025	1992-8645	https://www.jatit.org/volumes/Vol103No2/1/25Vol103No21.pdf	1.4	Scopus



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38	Dr.T.Rameshkumar, T.Karthikeyan , Dr.S.Sreelakshmi, Dr.T.Vengatesh, Dr.G.Ambika, Krovvidi S B Ambika, Dr.Elavarasan.K, Dr.Shanky Goyal	[A Unified Methodology: Integrating Machine Learning And Mathematical Modeling For Robust Psychological Assessment]	Vascular & Endovascular Review	SCARLET PUBLISHING SOLUTIONS CO. L.L.C. UAE.	Vol. 8 No. 16s (2025) PgNo: 243-250	2516- 3299	https://verjournal.com/index.php/view/article/view/1208/1015	3.2	Scopus
39	V. S. Thiyagarajan., K. S. Shashikala, M. Pavithra and R. M. Parivarthan	Artificial Hummingbird Algorithm with Deep Variational Autoencoder Driven Intrusion Detection in Big Data Analytics Environment	Journal of Engineering Science and Technology Review	Taylor's University	Vol.18 (2) (2025) Pp21 - 27	1791- 2377	https://www.jestr.org/downloads/Volume18Issue2/fulltext31822025.pdf	0.54	Scopus