



PANIMALAR ENGINEERING COLLEGE

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DEPARTMENT OF COMPUTER SCIENCE AND BUSINESS SYSTEMS

FACULTY PUBLICATIONS IN REFEREED JOURNALS (2024-25)

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.	Anuradha Durairaj E.S. Madhan M. Rajkumar Syed Shameem	Optimizing anomaly detection in 3D MRI scans: The role of ConvLSTM in medical image analysis	Applied Soft Computing	Elsevier	Volume 164 October 2024, 111919	1872-9681	https://doi.org/10.1016/j.asoc.2024.111919	7.2	SCIE / Scopus
2.	D.Deepakraj, T.Padmapriya, S.V.Manikanthan, G.Kannan, S.Selvakumar	An Efficient Automatic Fingerprint Authentication System Using a Template Protection Technique	Journal of Information Systems Engineering and Management	IADITI - International Association for Digital Transformation and Technological Innovation	10,2s, 140-149	2468-4376	https://doi.org/10.52783/jisem.v10i2s.208	1.3	Scopus



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3.	Hemalatha S, Gayathri G.N,Rawat, Sunita,Krishna R.V.V. Kulkarni, Pramodkumar H, Kulkarni P.H.,Mohan A.Mothukuri, Radha	Improving Quality Of Service In Mobile Adhoc Network By Doing Missing Packet Collection Due To Buffer Overflow With Divide And Conquer Strategy	Journal of Theoretical and Applied Information Technology	Little Lion Scientific	102,14, 5651 - 5662	1992- 8645	https://www.jatit.org/volumes/Vol102No14/22Vol102No14.pdf	1.1	Scopus
4.	Hemalatha S., Komala C.R.,Adavala, Kiran Maye,Faizz Ahmad, Khadri Syed,Krishna .V.V.,Deepa B,Mohan A. Mothukuri, Radh	Enhanced Routing Protocol In Mobile Ad Hoc Network For Improving The Performance	Journal of Theoretical and Applied Information Technology	Little Lion Scientific	102,14, 5386- 5395	1992- 8645	https://www.jatit.org/volumes/Vol102No14/2Vol102No14.pdf	1.1	Scopus



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5.	Hemalatha S. ,Trupthi M.,Vaneeta M.,Narayan Das, Nripendra,Krishna R.V.V.,Thangakrishnan, M. Suresh,Londhe, Gayatri D.,Anusha, Ponnuru	Comparing Watch Dog Algorithm And Classification Techniques With Machine Learning Technique To Detect The Various Attackers In Mobile Adhoc Network	Journal of Theoretical and Applied Information Technology	Little Lion Scientific	102,14, 5469 - 5481	1992-8645	https://www.jatit.org/volumes/Vol102No14/9Vol102No14.pdf	1.1	Scopus
6.	Hemalatha S ,Komala C.R.,Suresh Balakrishnan T.,Maguluri, Lakshmana Haneendra,Pallathadka, Harikuma,Chinchewadi, Rajesh P	Please Use a three-wire Watch a Novel Protocol Designed for Addressing Hidden and Exposed Layer Issues in the Medium Access Control Layer of Mobile Adhoc Network	Journal of Communications	Engineering and Technology Publishing	19,6, 287-297	1796-2021	https://www.jocm.us/2024/JCM-V19N6-287.pdf	3.4	Scopus



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7.	Hemalatha S ,Tavanam Venkata, Murthy G.S.N.,Ahmad, Khadri Syed Faizz,Supriya P,Singh, Charanjeet	IMPROVED POWER OPTIMIZATION TECHNIQUES IN MOBILE AD HOC NETWORK	Journal of Theoretical and Applied Information Technology	Little Lion Scientific	102,24, 8872-8882	1992-8645	https://www.jatit.org/volumes/Vol102No24/4Vol102No24.pdf	1.1	Scopus
8.	Hemalatha ,Adavala ,Chandra , Pullela Venkataramanan . Malleswari	PROPOSAL OF ENHANCING WATER SAFETY-AN AUTONOMOUS ROBOT FOR DROWNING PREVENTION	Journal of Theoretical and Applied Information Technology	Little Lion Scientific	102,24, 8954-8962	1992-8645	https://www.jatit.org/volumes/Vol102No24/11Vol102No24.pdf	1.1	Scopus



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9.	Hemalatha S, Adavala, Kiran Mayee, Chandra Shekhar S.N. Ahmad, Khadri Syed Faizz	Feature Dimensions of Artificial Intelligences Challenges and Techniques-A Survey	SSRG International Journal of Electronics and Communication Engineering	Seventh Sense Research Group	11,12, 107-122	2348- 8549	doi:10.1 2720/jc m.19.6.2 87-297	1.8	Scopus
10.	Hemalatha S, Venkata,Shalini , Shruthi , Surya , Krishna	MOBILE ADHOC NETWORK INTRUDER NODE DETECTION AND PREVENTION FOR EFFICIENT PACKET TRANSFERING	Journal of Theoretical and Applied Information Technology	Little Lion Scientific	102,23, 8827-8837	1992- 8645	https://w ww.jatit. org/volu mes/Vol 102No2 3/33Vol 102No2 3.pdf	1.1	Scopus



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11.	S.Hemalatha , Shalini,Sathya,. Kumaravel Krishna, VamseeKulkarni, Pramodkumar	AI BASED CLUSTER HEAD BASED MOBILE ADHOC NETWORK FOR PERFORMANCE IMPROVEMENT	Journal of Theoretical and Applied Information Technology	Little Lion Scientific	102,21, 8818-8826	1992- 8645	https://www.jatit.org/volumes/Vol102No23/30Vol102No23.pdf	1.1	Scopus
12.	S.Hemalatha , Khadri ,Tavanam,Krishna ,Sathya , Muthuvairavan	BEACON SIGNAL AND SLEEP AND AWAKE STRATEGY IN MANET FOR POWER ENHANCEMENT	Journal of Theoretical and Applied Information Technology	Little Lion Scientific	102,23, 7706-7716	1992- 8645	https://www.jatit.org/volumes/Vol102No21/11Vol102No21.pdf	1.1	Scopus



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13	S. Hemalatha , Khadri Syed Faizz Ahmad , Nripendra Narayan Das, R. V. V. Krishna , U. Sathya , and Radha Mothukuri	Manet Transport Layer Congestion Control Using a Multilevel Queue Management Scheme	Journal of Communications	Engineering and Technology Publishing	20,1,22-37	1796-2021	Doi: 10.12720/jcm.20.1.22-37	3.4	Scopus
14	S., Hemalatha , Shalini, Kumar S.V.V. Thilagam, Kumbhar Vijaya	A HYBRID APPROACH FOR INTRUSION DETECTION AND PRE VENTION IN MOBILE AD HOC NETWORKS	Journal of Theoretical and Applied Information Technology	Little Lion Scientific	103,2, 1128-1114	1992-8645	https://www.jatit.org/volumes/Vol103No3/27Vol103No3.pdf	1.1	Scopus



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15	S. Hemalatha , Kiran Mayee Adavala , S.N. Chandra Shekhar , Pullela SVVSR Kumar , A.R. Venkataramanan , D. Naga Malleswari	A Comparative Analysis of Deep Learning Models in Diverse AI Healthcare Applications	SSRG International Journal of Electronics and Communication Engineering	Seventh Sense Research Group	12,3, 116-123	2348-8549	10.14445/23488549/IJECE-V12I3P111	1.8	Scopus
16	Hemalatha Senthilmahesh , Kiran Mayee Adavala Thilagam Thangamariappan Pullela S. V. V. S. R. Kumar Ramesh Tumaati Muthuvairavan Pillai Nagappan	Enhancing swimming pool hygiene: A robotic approach to debris removal and water quality monitoring	Asian Journal of Water, Environment and Pollution.	Acc Science Publishing	22, No. ,2 (2025) pp. 19-31.	1875-8568	https://doi.org/10.36922/ajwep.6564	1.0	WoS/ Scopus



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17	S. HEMALATHA .P.ARIVUBRAKAN ,PONNURU ANUSHA ,SURYA LAKSHMI KANTHAM VINTI ,JYOTI D. SHENDAGE PRAMODKUMAR H KULKARNI	DEEP LEARNING APPROACHES FOR THE DEVELOPMENTOF 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	1.1	Scopus



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18	Suganyadevi K Swaminathan A Baskar Kasi Anju M A	Sybil Attack Detection in VANET Using CNN Enhanced with Chaotic Maps and Elephant Herding Optimization for Secure Data Transmission	Journal of Machine and Computing	AnaPub Publications	Volume 05, Issue 02 Pages : 1233-1247	2788-7669	https://doi.org/10.53759/7669/jmc.202505097	1.8	Scopus
19	S. Vishnu Priyan , K. Rajalakshmi , J. Parivendhan Inbakumar , A. Swaminathan	Enhanced melanoma detection using a fuzzy ensemble approach integrating hybrid optimization algorithm	Biomedical Signal Processing and Control	Elsevier	Volume 89, March 2024, 105924	1746-8094	https://doi.org/10.1016/j.bspc.2023.105924	4.9	WoS/ Scopus



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20	Dinesh G W. Deva Priya, C. P. Shirley T. Vignesh	Automatic modulation classification scheme for next-generation cellular networks using optimized adaptive multi-scale dual attention network	Peer-to-Peer Networking Applications	Springer	Volume 18, article number 140, (2025)	1936-6450	https://doi.org/10.1007/s12083-025-01959-0	3.3	WoS
21	K. Vijaya bhaskar, A. P. Jyothi, Sivasankar Chandrasekaran, Vignesh Thangathurai	Energy-Aware Routing in WSN Utilizing Self-Attention-Based Cycle-Consistent Generative Adversarial Network	International Journal of Communication Systems	Wiley	Nil	1099-1131	https://doi.org/10.1002/dac.6016	5.9	WoS Scopus



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		With Honey Badger Algorithm							
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22	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	EL-MED-Pub Publishers	14,12(s), 255-264	2226-0439	https://www.jneonatsurg.com/index.php/jns/article/view/3149/2832	0.16	Scopus
23	K P N V SATYASREE C.VIJAYALAKSHMI R.MAHENDRAN LAKSHMI NARAYANA REDDY KOTHAPALLI SONDINTI J.SEETHA NALLAMILLU V K REDIDI	[Mitigating Financial Fraud and Cybercrime in Financial Services with Security Protocols and Risk Management Strategies]	COMPUTER FRAUD & SECURITY	BEIJING SCIENCE PRESS	(2024),11 172-175	1873-7056	DOI: https://doi.org/10.52710/cfs.129	0.156	Scopus



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24	S.Muruganandam S. Gnanavel N. Duraimurugan G. Balamurugan	A Novel Cryptographic Based Session Key Generation Algorithm Framework for Improving Security in Mobile Ad-Hoc Network	International SSRG International Journal of Electronics and Communication Engineering	Seventh Sense Research Group	11,11, 133-145	2348-8549	10.14445/23488549/IJECE-V11I11P112	0.6	Scopus
25	B. Kalpana · A. Senthilselvi S. Muruganandam S. Vinodh Kumar	Enhancing Skin Disease Diagnosis: Light GBM-DMS Algorithm for Accurate Image Classification	Cognitive Computation	Springer	17,99(2025)	1866-9964	https://doi.org/10.1007/s12559-025-10450-0	4.3	SCIE



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26	S.Muruganandam Gnanavel S Sathianesan, Godfrey Winster Bharathiraja N, Giri, Jayant, Amir, Mohammad, Ahmad, Furkan	[Multi-Attribute- Based Node Trust Computation Method for Improving Security, Energy Efficiency and Qos in Mobile Ad-Hoc Networks]	SSRN, Preprint-archives	SSRN	nil	2352-5398	https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4602623	nil	Scopus
27	Vithya Ganesan Kirubakaran N Deepak R Muruganandam S T Vengatesh Viswanathan Ramasamy Reddy	[Identify Vessels in UAV Data by Dynamic Multi- Label Image Classification]	Journal of Neonatal Surgery	EL-MED-Pub	Vol. 14 No. 12S (2025)	2226-0439	DOI: https://doi.org/10.63682/jns.v14i12S.3263	0.16	Scopus



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28	D.Deepakraj V. Saidulu, Azham Hussain, S.Muruganandam , Sumit Kumar, J RajaSekhar	[Optimizing Task Scheduling and Resource Allocation Using Multi-Criteria Framework in Fog-Assisted IoT Networks with Preemption]	International Journal of Computational and Experimental Science and Engineering	İskender AKKURT	Vol. 11- No.2(2025) pp. 3291-3300	2149-9144	https://www.ijcesen.com/index.php/ijcesen/article/view/2134/783	3.3	Scopus
29	S.Hemalatha Senthilmahesh , Muthuvairavan Pillai Nagappan Somavarapu N. C. Shekhar , Anbarasa Pandian A , Pullela S. V. V. S. R. Kumar, and Ramesh Tumaati	Advancing oncology care with AI-powered virtual assistants and chatbots: A qualitative exploration of future potential and challenges	Eurasian Journal of Medicine and Oncology	Kare Publishing	EJMO 2025, 9(1), 115–132	2587-2400	DOI: 10.36922/ejmo.6251	0.8	Scopus



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30	M. Gokuldhev, Anjani Kumar, K. Kiruthika, B.R. Tapas Babu	[Parkinsons detection based on combined ResNet architecture and LSTM]	International Journal of Medical Engineering and Informatics	Inder science	Nil	Nil	DOI: 10.1504/ IJMEI.2 023.100 57280	2.2	Scopus
31	V. Sathiya, K. Nagalakshmi, K. Raju, and R. Lavanya	Tracking Perishable Foods in the Supply Chain Using Chain of Things Technology	Scitific Reports	Nature	14, 21621 (2024)	2045-2322	https://doi.org/10.1038/s41598-024-72617-3	3.8	WoS



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32	Sumit Kumar, B. Ben Sujin, K. Bhavani , Doddi Srilatha, Ketan Anand	Software Defined Network Based Next Generation Mobile Communication Network Architecture	International Journal of Interactive Mobile Technologies (iJIM)	International Federation of Engineering Education Societies (IFEES)	Vol:18, Issue:23, 138-148	1865-7923	DOI: https://doi.org/10.3991/ijim.v18i2.3.51337	5.2	Scopus
33	Aravindhan Ragunathan, Bhavani K , Archana Sasi , Sathish Kumar R	Integration of NoSQL and Relational Databases for Efficient Data Management in Hybrid Cloud Architectures	Journal of Machine and Computing	AnaPub Publications	Vol:5, Issue:2 1277-1287	2788-7669	doi: 10.53759/7669/jmc202505100.	1.8	Scopus



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34	T. B. Sivakumar S. Rahini Sudha Lakshminarayanan S M. Anand A Fayaz Ahamed	[Data Glove-Based Hand Gesture Recognition for Improved Human-Computer Interaction]	Nanotechnology Perceptions	Brookfield academic Limited, United kingdom	Vol. 20, Issue S5(2024) 159–178	1660-6795	DOI : https://doi.org/10.62441/nano-ntp.vi.706	0.4	Scopus
35	K.Suresh, K.Jayasakthi Velmurugan, R,Vidya, S.Rahini sudha, Kavitha .V	Deep anomaly detection: A Linear one-class SVM approach for high-dimensional and large-scale data	Applied Soft Computing	Elsevier	Volume 167 Part B December 2024, 112369	1568-4946	https://doi.org/10.1016/j.asoc.2024.112369	7.2	SCIE



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36	Dr.jeya, R.Vanidhasri ,Dr.S.V.Manikanthan,Sa bari ,L Uma Maheswari, S.Manikandan	[Indoor Environment Surveillance via an autonomous Mobile Robotic device]	Nanotechnology Perceptions	Brookfield academic Limited, United kingdom	20,S4(2024) , 584–610	1660- 6795	DOI : https://doi.org/10.62441/nano-ntp.vi.667	0.4	Scopus
37	Pudi Sreelakshmi, R.Vanidhasri , Jose.P, Priyadharsshini.C, B.Vidhya	Enhancing Search Functionality-based Customer Analysis Expending Big Data in E- commerce	Journal of Information Systems Engineering and Management	IADITI - International Association for Digital Transformation and Technological	10, 11S(2025), 352-360	2468- 4376	DOI: https://doi.org/10.52783/jisem.v10i11s.1597	1.3	Scopus
38	N. Sabiyath Fatima, G. Deepika, Arun Anthonisamy , R. Jothi Chitra, J. Muralidharan, Manjunathan Alagarsamy, Kummari Ramyasree	Enhanced Facial Emotion Recognition Using Vision Transformer Models	Journal of Electrical Engineering & Technology	Springer	Volume 20, (2025) 1143–1152,	1975- 0102	https://doi.org/10.1007/s42835-024-02118-w	1.6	WoS



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39	Sreenivasulu Kutala Harshavardhan Awari Sangeetha Velu Arun Anthonisamy Naga Jyothi Bathula Syed Inthiyaz	Hybrid Deep Learning-Based Air Pollution Prediction and Index Classification Using an Optimization Algorithm	AIMS Environmental Science	AIMS Press	11,4, 551-575	2372-035	doi: 10.3934/environmental.2024027	1.6	Scopus
40	C.Kotteeswaran, S.Sheeba Rani, Raenu Kolandaishamy, Arun Anthonisamy , A.Madhan kumar Asan Mohideen khansadurai	Enhanced Urban Environmental Monitoring Networks: Ai-Driven Predictive Analytics For Pollution Hotspot Identification	Journal of Environmental Protection and Ecology	Scibulcom Ltd	25,8, 2606-2617	2606-2617	https://scibulcom.net/en/article/oyDDBcAtOGMh1yDyrCuP	1.3	Scopus



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41	N. Vijayalakshmi, Saravanan R, R.Jayalakshmi, R. Rekha , K. Indumathy	Artificial Intelligence and Human-Centered in Linguistic Analysis: Self-Regulated Learning and Development	Journal of Information Systems Engineering and Management	IADITI - International Association for Digital Transformation and Technological Innovation	10, 11S(2025)	2468-4376	https://doi.org/10.52783/jisem.v10i11s.1598	1.3	Scopus
42	D.Deepakraj, L.R.Aravind Babu, V. Kavitha, C Navaneetha , K Sreeramamurthy	A Dependable Multistage Interconnection Network Topology and Fault-Tolerance	Communications on Applied Nonlinear Analysis	International Publications	32, 7S(2025) 36-45	1074-133X	DOI: https://doi.org/10.52783/can.v32.3342	0.3	Scopus



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43	V. Saravanan, Khushboo Tripathi, K. N. S. K. Santhosh, Naveenkumar P, P. Vidyasri, Bharathi Ramesh Kumar	AI-Driven Cybersecurity: Enhancing Threat Detection and Mitigation with Deep Learning	International Journal of Computational and Experimental Science and Engineering (IJCESEN)	Prof.Dr. Iskender AKKURT	Vol. 11-No.2 (2025) pp. 1773- 1780	2149- 9144	DOI: https://doi.org/10.22399/ijcesen.1358	0.4	Scopus
44	Valarmathi K , Kousalya S , Janani R , Devi M	Defense against Artificial Intelligence Hacking Model	Nanotechnology Perceptions	Brookfield academic Limited, United Kingdom	20 No. S10 (2024) 462- 475	1660- 6795	https://nano-ntp.com/index.php/nano/article/view/1819	0.4	Scopus