

Paper Publications (Journals, Conferences & Book Chapters)
From July 2024 to June 2025.

S. No.	Author, Title & Journal details	Month & Year	Indexing
1	Udaiyakumar S, Kannayeram G, Hariharan VS, Saravanan R. Optimizing solar photovoltaic and biomass integration for electric vehicle charging stations in metropolitan cities: A hybrid approach. <i>Optimal Control Applications and Methods</i> . 2024 Nov;45(6):2874-96. DOI: 10.1002/oca.3190	08 August 2024	WoS (SCIE)
2	Arumugam, Sathish Kumar, R. Saravanan, S. Vasanthi, and R. Raja. "Variable Speed Drive Applications Performing Effectively with ANN Technique." (2023). DOI: 10.1007/s11277-024-11538-w	18 September 2024	WoS (SCIE)
3	Kumar, P. Kiran, B. Balaji, Ch Sree Vardhan, Y. Gowthami, Vipul Agarwal, M. Shashidhar, Kallepelli Sagar, Biswajit Jena, Michael Cholines Pedapudi, and Kurivella Manikanta. "Spacer Engineered Halo-Doped Nanowire MOSFET for Digital Applications." <i>Journal of Electronic Materials</i> 54, no. 1 (2025): 758-772. DOI: 10.1007/s11664-024-11557-0	09 November 2024	WoS (SCIE)
4	Energy Efficient TD. Energy Efficient TDMA and Secure based MAC Protocol for WSN using AQL Coding and ASGWI Clustering. <i>Wireless Personal Communication Journal</i> . 2022. 10.1007/s11277-024-11320-y	20 November 2024	WoS (SCIE)
5	Karthick R, Saravanan R, Arulkumar P. Fault Detection and Fault Location in a Grid-Connected Microgrid Using Optimized Deep Learning Neural Network. <i>Optimal Control Applications and Methods</i> . 2025 May;46(3):896-911. DOI: 10.1002/oca.3237	12 December 2024	WoS (SCIE)
6	Arulkumar P, Saravanan R, Lakshmanan M, Murugan AS. Optimizing grid-connected solar PV-powered smart homes: IoT-based energy management systems using AOA-PHNN approach. <i>Electrical Engineering</i> . 2025 Jun;107(6):7297-311. DOI: 10.1007/s00202-024-02894-8	28 December 2024	WoS (SCIE)
7	Kumar CS, Saravanan R, Sankarakumar S, Srinivas G. Optimizing power quality and placement of EV charging stations in a DC grid with PV-BESS using hybrid DOA-CHGNN approach. <i>Electric Power Systems Research</i> . 2025 Aug 1;245:111595. DOI: 10.1016/j.epsr.2025.111595	18 March 2025	WoS (SCIE)
8	Manda, Sridhar, Arun Kumar Arigala, B. Krishna, and Syed Asiya. "IoT-Enabled Plant Leaf Disease Detection Using HPJSO_SqueezeNet." <i>Journal of Phytopathology</i> 173, no. 2 (2025):	27 March 2025	WoS (SCIE)

	e70024. DOI: 10.1111/jph.70024		
9	Vinayakumar L, Sudhakar AV, Saravanan R. Innovative Strategies for Renewable Energy Integration and Smart Grid Power Management. <i>Optimal Control Applications and Methods</i> . 2025 Jul;46(4):1834-54. DOI: 10.1002/oca.3294	08 April 2025	WoS (SCIE)
10	Benjamin Franklin S, Palanisamy M, Narayana V. Hybrid MRGNN-HSTO approach for thermal and mechanical effects on the durability of steel fibre-reinforced concrete. <i>European Journal of Environmental and Civil Engineering</i> . 2025 Oct 3;29(13):2672-91. DOI: 10.1080/19648189.2025.2494136	18 April 2025	WoS (SCIE)
11	Udayakumar, Ponnuswamy, Srilatha Yalamati, Lavadiya Mohan, Mohd Junedul Haque, Gaurav Narkhede, and Krishna Mohan Bhashyam. "Android malware detection using GIST based machine learning and deep learning techniques." <i>Indonesian Journal of Electrical Engineering and Computer Science</i> 35, no. 2 (2024): 1244-1252. DOI: 10.11591/ijeecs.v35.i2.pp1244-1252	May 2025	Scopus
12	DR. REKHA GANGULA, SREENIVAS PRATAPAGIRI, DR. C MADAN KUMAR, DR.L. MOHAN, DR. VENKATESWARLU.B AND DR.A. MANJULA , "RELIABLE POWER-OPTIMISED TOKEN-PASSING ACCESS METHOD COMMUNICATION FOR MAC". <i>Journal of Theoretical and Applied Information Technology</i> . 2024 Oct 31;102(20).	31 October 2024	Scopus
13	Vaigandla, Karthik Kumar. "Role of IoT and ML in Healthcare." <i>Babylonian Journal of Artificial Intelligence</i> 2025 (2025): 23-36. DOI: 10.58496/BJAI/2025/003	10 Mar 2025	Scopus
14	Sivapriya, N., Karthik Kumar Vaigandla, R. Mohandas, and K. Kirubasankar. "Evaluation of FBMC/OQAM performance using Hybrid MGDFT and PTS approaches in terms of BER, Spectral Efficiency, and PAPR." <i>International Research Journal of Multidisciplinary Technovation</i> 7, no. 3 (2025): 148-164. DOI: 10.54392/irjmt25313	5 May 2025	Scopus
15	Padakanti KK, VAIGANDLA K. Performance Evaluation of UFMC System using Neural Networks for BER Prediction and Efficiency Optimization. <i>INTERNATIONAL RESEARCH JOURNAL OF MULTIDISCIPLINARY TECHNOVATION: Asian Research Association</i> . 2024:104-27. DOI: 10.54392/irjmt2468	Nov 2024	Scopus
16	Manohar V, Padakanti KK, Vaigandla KK. Discrete Elephant Herding Optimization Algorithm for Analysis of PAPR, BER and Spectral Efficiency in FBMC/OQAM System. <i>International Research Journal of Multidisciplinary Technovation</i> . 2024;6(5):94-	21 September 2024	Scopus

	109. DOI: 10.54392/irjmt2457		
17	Azmera Chandu Naik, Madhu Kumar Vanteru, Bandru Sanjeev, Sravan Kumar V, Karthik Kumar Vaigandla, "A Comprehensive Survey on Applications, Security Concerns, Attack Mitigation and Secure Routing in IoT", <i>International Research Journal of Multidisciplinary Scope</i> , 2024; 5(3):894-906 DOI: 10.47857/irjms.2024.v05i03.0885	30 July 2024	Scopus
18	Rao, Devireddy Sreenivasa, Malluri Sirisha, Deepthi Tumkur Srinivas Murthy, Nayana Dunthur Krishne Gowda, Bukya Balaji, and Padakanti Kiran Kumar. "Design and optimization of high electron mobility transistor with high-k dielectric material integration." <i>International Journal of Electrical and Computer Engineering (IJECE)</i> 14, no. 4 (2024): 3855-3862. 10.11591/ijece.v14i4.pp3855-3862	August 2024	Scopus
19	Kannayeram G, Saravanan R, Arulkumar P, Venkatesan G. Adaptive SMC for modified three phase bridgeless Vienna rectifier for Electric Vehicle Applications. In 2024 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS) 2024 Oct 8 (pp. 1-5). IEEE. 10.1109/ICPECTS62210.2024.10780407	12 December 2024	Scopus
20	Manda, Sridhar, A. Arun Kumar, and Shankar Lingam Macharla. "An Internet of Things (IoT) Speech Recognition System to Improve the Performance of Emotion Detection." <i>First International Conference on Real Time Intelligent Systems</i> . Cham: Springer Nature Switzerland, 2024.	08 June 2025	Scopus
21	Badugu, Ranjith Kumar, Naresh Goke, Suresh Salendra, Sridhar Manda, K. Vijay Kumar, and Sravan Vardhan Rao Souda. "Key Aggregation in Trusted Execution for Multi-Query Privacy in Cloud Computing with Enhancing Data Privacy." In <i>2025 International Conference on Artificial Intelligence and Data Engineering (AIDE)</i> , pp. 810-815. IEEE, 2025.	12 May 2025	Scopus
22	Vijayagopal, V., N. Chidambararaj, M. Kavitha, Deepak Sundrani, Karthik Kumar Vaigandla, and Bhoopathy Varadharajan. "Machine Learning for Natural Disaster Prediction and Prevention." In <i>Exploring Psychology, Social Innovation and Advanced Applications of Machine Learning</i> , pp. 209-230. IGI Global Scientific Publishing, 2025. DOI: 10.4018/979-8-3693-6910-4.ch011	March 2025	Scopus
23	Vaigandla, Karthik Kumar, Toodi Mounika, Nilofar Azmi, Uzma Urooj, Kalyani Chenigaram, and Radha Krishna Karne. "Investigation on machine learning towards future generation communications." In <i>AIP Conference Proceedings</i> , vol. 2965, no. 1,	8 July 2024	Scopus

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24	Mohandas, R., N. Sivapriya, and Karthik Kumar Vaigandla. "Detection and mitigation of attacks in manets: A comprehensive survey of security techniques." In <i>2024 4th International Conference on Ubiquitous Computing and Intelligent Information Systems (ICUIS)</i> , pp. 1478-1485. IEEE, 2024. DOI: 10.1109/ICUIS64676.2024.10866793	13 February 2025	Scopus
25	Sowjanya, M., K. M. Devendraiah, V. Kalpana, K. Venkata Ramana, Bramah Hazela, and Karthik Kumar Vaigandla. "Advanced Fake News and Hate Speech Detection Leveraging Spectral Graph Theory." In <i>2024 International Conference on Distributed Systems, Computer Networks and Cybersecurity (ICDSCNC)</i> , pp. 1-6. IEEE, 2024. DOI: 10.1109/ICDSCNC62492.2024.10939449	01 April 2025	Scopus
26	Mohandas, R., Karthik Kumar Vaigandla, and N. Sivapriya. "Detection and Evaluation of Cybersecurity Threats in MANET based on AI." In <i>2024 4th International Conference on Ubiquitous Computing and Intelligent Information Systems (ICUIS)</i> , pp. 1486-1492. IEEE, 2024. DOI: 10.1109/ICUIS64676.2024.10867165.	13 February 2025	Scopus
27	Vanteru, Madhu Kumar. "Advancing Mobility Enhanced Edge Intelligence for 6G Networks." In <i>2024 IEEE International Conference on Big Data & Machine Learning (ICBDML)</i> , pp. 44-49. IEEE, 2024. DOI: 10.1109/ICBDML60909.2024.10577395	02 July 2024	Scopus
28	Vanteru, Madhu Kumar, Kavitha Dasari, V. Asha, Navdeep Singh, Dalael Saad Abdul-Zahra, and R. Ramprakash. "MEET: Advancing Mobility-Enhanced Edge Intelligence for Efficient and Sustainable 6G Networks." In <i>2024 7th International Conference on Contemporary Computing and Informatics (IC3I)</i> , vol. 7, pp. 390-394. IEEE, 2024. DOI: 10.1109/IC3I61595.2024.10828740	15 January 2025	Scopus
29	Veeru, B., N. Devender, and Korra Shoban. "Cryptographic Security in Credit Card Fraud Detection Using Homomorphic Encryption with CRO Based Hybrid BL-GRU Classification." In <i>Sustainable Development Using Private AI</i> , pp. 85-108. CRC Press, 2024. DOI: 10.1201/9781032716749-5	27 August 2024	Scopus
30	Kumar, P. Kiran, J. Sofia Priya Dharshini, Srinivas Samala, Nagamalli Arasavalli, N. Ramanjaneyulu, N. P. Dharani, and K. Rajesh Babu. "Quantum confinement and bound state energy analysis in ultra-thin double gate MOSFETs using NEGF approach." <i>Proceedings of the Indian National Science Academy</i> (2025): 1-8. DOI: 10.1007/s43538-025-00437-8	05 May 2025	Scopus

31	Neelam, Hema, Lingam Sampath, Phanindra Kumar Katkam, and S. Vasundhara. "A study on the association between select cryptocurrencies and the Indian FOREX values." In <i>Digital Transformation and Sustainability of Business</i> , pp. 770-774. CRC Press DOI: 10.1201/9781003606185-182	20 May 2025	Scopus
32	Dr.V. Sudhakar Rao, Dr.A.Karunasri, "THE ROLE OF LITERATURE IN COGNITIVE DEVELOPMENT: ADVANCING CRITICAL THINKING ", International Journal of Emerging Technologies and Innovative Research, ISSN:2349-5162, Vol.12, Issue 5, page no.j212-j215, http://www.jetir.org/papers/JETIR2505A23.pdf	May 2025	UGC / Peer Reviewed
33	Dr.A.Karunasri, Mr. M. Raju, "Cultivating Creativity: Digital literary access for Indian youth, International Journal of English and Studies, ISSN: 2581-8333 Volume 7, Issue 6 DOI:10.47311/IJOES.2025.18.06.191	June 2025	UGC / Peer Reviewed
34	Ms D.Rashmika, Control of DVR using truly-NTD-Phase locked loop; International Journal For Advanced Researchs In Science & Technology, Volume 14, Issue 06, ISSN 2457-0362, https://ijarst.in/public/uploads/paper/557991724230772.pdf	Aug 2024	UGC / Peer Reviewed
35	Raju Amireddy, Dileep Pulugu, "Water Quality Prediction Using Combined Model of Convolutional Neural Network and Long Short-Term Memory. <i>International Journal of Intelligent Systems and Applications in Engineering</i> , 12(4), 1828–1836. Retrieved from https://ijisae.org/index.php/IJISAE/article/view/6502	23 July 2024	UGC / Peer Reviewed
36	Raziya Begum, Gopalapuram Poojitha, Ramdas Vankdothu. (2024). Web Based Graphical Password Authentication System. <i>International Journal of Communication Networks and Information Security (IJCNIS)</i> , 16(4), 748–760. Retrieved from https://www.ijcnis.org/index.php/ijcnis/article/view/7202	Sept 2024	UGC / Peer Reviewed
37	Ashish Ladda, Kola Sandeep, " Weapon Identification using DL for Security Applications, International Journal for Research Trends and Innovation, Volume 9, Issue 7 ISSN: 2456-3315, https://ijrti.org/viewpaperforall.php?paper=IJRTI2407029	July 2024	UGC / Peer Reviewed
38	Dr.P.Kiran Kumar , Gaddam Sindhu , Dyushikamani Vijayalaxmi , Ballu Shravani , Akarapu Saveri , Bhukya Sandeep, "Design A 3D Nanowire Fet With Corner Spacer Application, RES MILIARIS 2265-6294 https://resmilitaris.net/issue-content/design-a-3d-nanowire-fet-with-corner-spacer-application-3030	July 2024	UGC / Peer Reviewed
39	Dr.P. Kiran Kumar , K. Supriya , V. Srinath , G. Ashwini , N. Bhargavi , D. Deepik, Enhanced Performance Through Source/Drain Engineering In Nanowire FETs For <10nm	July 2024	UGC / Peer Reviewed

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40	Mr. Prasad Dudimetla , Swathi Muppu , Mounika Malothu , Eshwar Reddy Enugala , Priyanka Koppula , Anil Lakka, Comparative Evaluation Of Orthogonal Frequency Division Multiplexing (OFDM) And Ultra-Frequency Multicarrier (UFMC) For Future Wireless Communication Systems, Volume -14, Issue -4 (2024), Res Militaris https://resmilitaris.net/issue-content/comparative-evaluation-of-orthogonal-frequency-division-multiplexing-ofdm-and-ultra-frequency-multicarrier-ufmc-for-future-wireless-communication-systems-3041	July 2024	UGC / Peer Reviewed
41	Karthik Kumar Vaigandla, doi: "A Comprehensive Introduction to Artificial Intelligence Techniques for Advanced Wireless Networks: 5G and Beyond." IRO Journal on Sustainable Wireless Systems 7, no. 2 (2025): 175-192. doi: 10.36548/jsws.2025.2.007	18 July 2025	UGC / Peer Reviewed
42	Mrs. K. Madhavi , K. Sowmya , V. Uday Kiran , S. Harika , G Mokshith Reddy , K. Siddartha, WOMEN SAFETY DEVICE USING IOT, RES MILITARIS, Volume -14, Issue -4 (2024) https://resmilitaris.net/issue-content/women-safety-device-using-iot-3068	July 2024	UGC / Peer Reviewed
43	Mrs.K.Madhavi , N.Chandana , M.Dheeraj , P.Mamatha , G.KranthiRekha , A.Sairam Koushik, RASPBERRY PI SECURITY SYSTEM, RES MILITARIS, Volume -14, Issue -4 (2024) https://resmilitaris.net/issue-content/raspberry-pi-security-system-3078	July 2024	UGC / Peer Reviewed
44	Vaigandla, Karthik Kumar, Radhakrishna Karne, Madhu Kumar Vanteru, Malothu Devsingh, Dudimetla Prasad, Ranjith Kumar Siddoju, and Nanda Dharavath. "Artificial Intelligence in Industrial IoT: Trends, Challenges, and FutureDirections." <i>Journal of Computer Allied Intelligence (JCAI, ISSN: 2584-2676)</i> 3, no. 2 (2025): 37-55. https://doi.org/10.69996/jcai.2025011	30 April 2025	UGC / Peer Reviewed
45	Vaigandla, Karthik Kumar, and Ranjith Kumar Siddoju. "A comprehensive review on OFDM, 5G and various PAPR minimization techniques based on machine learning." <i>Babylonian Journal of Networking</i> 2025 (2025): 43-58. DOI: https://doi.org/10.58496/BJN/2025/004	4 April 2025	UGC / Peer Reviewed
46	Vaigandla, Karthik Kumar. "A Comprehensive Review on Multi-Carrier Modulation Schemes, 5G and Various PAPR Minimization	31 March	UGC / Peer

	Techniques based on Machine Learning." <i>Journal of Sensors, IoT & Health Sciences (JSIHS, ISSN: 2584-2560)</i> 3, no. 1 (2025): 20-45. https://doi.org/10.69996/jsihs.2025002	2025	Reviewed
47	Vaigandla, Karthik Kumar. "An extensive examination on IOT and industrial IOT: Attacks, security, detection methods, blockchain solutions and challenges." <i>Babylonian Journal of Internet of Things</i> 2025 (2025): 89-100. DOI: https://doi.org/10.58496/BJIoT/2025/004	10 Mar 2025	UGC / Peer Reviewed
48	Ms D.Rashmika, CONTROL OF DVR USING TURLY-NTD-PHASE LOCKED LOOP, <i>International Journal For Advanced Researchs In Science & Technology</i> , Volume 14, Issue 06, https://ijarst.in/public/uploads/paper/557991724230772.pdf	Aug 2024	UGC / Peer Reviewed
49	Krishna, A. Gopi. "REVITALISING ECONOMIES: THE ROLE OF START-UPS IN POST-PANDEMIC ECONOMIC RECOVERY AND SUSTAINABLE GROWTH." <i>International Journal of Business Ethics in Developing Economies</i> 14, no. 1 (2025).	2025	UGC / Peer Reviewed
50	Dr.V. Sudhakar Rao, Dr.A.Karunasri, "THE ROLE OF LITERATURE IN COGNITIVE DEVELOPMENT: ADVANCING CRITICAL THINKING ", <i>International Journal of Emerging Technologies and Innovative Research</i> , ISSN:2349-5162, Vol.12, Issue 5, page no. j212-j215, http://www.jetir.org/papers/JETIR2505A23.pdf	May 2025	UGC / Peer Reviewed