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www.bitswgl.ac.in, email: principal@bitswgl.ac.in, Ph: 98660 50044, Fax: 08718-230521**Publications (Journals, Conferences & Book Chapters)****From June 2025 to June 2026.**

S. No.	Faculty	Author, Title & Journal details	Month & Year	Indexing
1	Dr. R. Saravanan	Pavithra CV, Kannayeram G, Saravanan R. Fuel Cell-Battery Vehicles for Optimised Energy Utilisation and Sustainability Using the LOA-SAGAN Approach. IETE Journal of Research. 2025 Jul 3;71(7):2528-38. https://doi.org/10.1080/03772063.2025.2485405	12 Jun 2025	WoS (SCIE)
2	Dr. R. Saravanan	Sangeetha S, Saravanan R , Kannayeram G. Enhancing smart grid reliability through strategic allocation of electric vehicle charging stations using COA-FBPINNs approach: Enhancing smart grid reliability through strategic allocation of electric vehicle charging stations using COA-FBPINNs approach. Environment, Development and Sustainability. 2025 Jun 3:1-26. https://doi.org/10.1007/s10668-025-06396-w	03 June 2025	WoS (SCIE)
3	Dr. P. Kiran Kumar	Kallepelli Sagar, Satish Maheshwaram, and Kiran Kumar P. "Enhancing Device Performance with Circular Layout Transistors: A Comparative Study of CDGT and CSNT." <i>Silicon</i> 17, no. 12 (2025): 2899-2907. DOI: 10.1007/s12633-025-03381-w	16 July 2025	WoS (SCIE)
4	Dr. V. Karthik Kumar	Vaigandla, Karthik Kumar. "A systematic survey on artificial intelligence in 6G wireless networks: Security, opportunities, applications, advantages, future research directions and challenges." <i>Babylonian Journal of Artificial Intelligence</i> 2025 (2025): 99-106. DOI: 10.58496/BJAI/2025/009	12 July 2025	Scopus
5	Dr. V. Karthik Kumar	Selvan, P., A. Kavitha, V. Kavitha, and Karthik Kumar Vaigandla. "Hybrid CNN-BI-LSTM Network for the Accurate Brain Tumour Prediction in MRI Image." In <i>2025 Global Conference in Emerging Technology (GINOTECH)</i> , pp. 1-7. IEEE, 2025.	17 July 2025	Scopus

		DOI: 10.1109/GINOTECH63460.2025.11076894		
6	Dr. V. Karthik Kumar	Karthik Kumar Vaigandla , doi: "A Comprehensive Introduction to Artificial Intelligence Techniques for Advanced Wireless Networks: 5G and Beyond." <i>IRO Journal on Sustainable Wireless Systems</i> 7, no. 2 (2025): 175-192. doi: 10.36548/jsws.2025.2.007	18 July 2025	UGC / Peer Reviewed
7	Dr. A. Karunasri, Dr. V. sudhakar Rao	Karunasri, Alda , and Vanam Sudhakar Rao . "Exploring the Efficacy of Blended Learning Approaches in Language Acquisition." <i>Management Analytics and Social Insights</i> 2, no. 4 (2025): 287-292.	22 July 2025	UGC / Peer Reviewed
8	Dr. V. Karthik Kumar, Dr. V. Madhu Kumar	Vaigandla, Karthik Kumar, Madhu Kumar Vanteru , and Ranjith Kumar Siddoju. "Blockchain-based Security Framework for IoT Devices in Industrial Automation: A Comprehensive Review." <i>International Journal of Advanced Engineering, Management and Science</i> 11, no. 4 (2025): 621314. https://dx.doi.org/10.22161/ijaems.114.31	11 Aug 2025	UGC / Peer Reviewed
9	Dr. V. Karthik Kumar	Vaigandla, Karthik Kumar . "AI in Healthcare: Era of Healthcare Innovation, Role, Current Issues, Challenges, Recommendations and Future Directions." <i>International Journal of Advanced Engineering Research and Science</i> 12, no. 8 (2025): 621241. 10.22161/ijaers.128.1	08 Aug 2025	UGC / Peer Reviewed
10	Dr. V. Karthik Kumar	Vaigandla, Karthik Kumar . "Quantum-Secure IoT Networks for the 6G Era: Post-Quantum Cryptography, Blockchain Integration, and Trust Architectures-A Comprehensive Review." <i>Journal of Sensors, IoT & Health Sciences (JSIHS, ISSN: 2584-2560)</i> 3, no. 3 (2025): 44-75. DOI: https://doi.org/10.69996/jsihs.2025014	30.09. 2025	UGC / Peer Reviewed
11	Dr. V. Karthik Kumar	Vaigandla, Karthik Kumar . "Data Classification and Emerging Encryption Technologies in Big Data and Cloud Computing: A Systematic Review." <i>Applied Data Science and Analysis</i> 2025 (2025): 187-200. https://doi.org/10.58496/ADSA/2025/016	30.09. 2025	UGC / Peer Reviewed
12	Dr. R. Saravanan	Kumar S, Saravanan R , Srinivas G, Murugan AS. Intelligent control strategy for grid-integrated PV systems with enhanced dynamic performance. <i>Energy</i> . 2025 Sep 30;332:137154. https://doi.org/10.1016/j.energy.2025.137154	30 September 2025	WoS (SCIE)
13	Dr. V. Karthik Kumar, Dr. P. Kiran Kumar	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</i>	21.09. 2024	Scopus

		Multidisciplinary Technovation. 2024;6(5):94-109. DOI: 10.54392/irjmt2457		
14	Dr. V. Karthik Kumar	Saranya, S., P. Vimala Imogen, D. Dinesh, J. Jarin Joe Rini, T. Geetha, and Karthik Kumar Vaigandla . "A Hybrid Optimization Framework Using Aquila and Attention Residual Net for Intrusion Detection in Vanets." In <i>2025 8th International Conference on Circuit, Power & Computing Technologies (ICCPCT)</i> , pp. 1544-1549. IEEE, 2025. DOI: 10.1109/ICCPCT65132.2025.11176752	09 October 2025	Scopus
15	Mrs. P. Sravanthi	Parsha Sravanthi , Enhanced Authentication Security: A Color-Assisted Text-Based Graphical Password Scheme"", International Journal of Emerging Technologies and Innovative Research, Vol.12, Issue 10, page no.c633-c645, http://www.jetir.org/papers/JETIR2510280.pdf	Oct 2025	UGC / Peer Reviewed
16	Dr. V. Karthik Kumar	Vaigandla, Karthik Kumar . "A Review on Deep Learning Algorithms for Efficient Mobile Traffic Handling in 5G Systems." <i>Journal of Computer Allied Intelligence (JCAI, ISSN: 2584-2676)</i> 3, no. 5 (2025): 1-16. https://doi.org/10.69996/jcai.2025023	31.10. 2025	UGC / Peer Reviewed
17	Dr. V. Karthik Kumar	Karthik Kumar Vaigandla , Novel Spectrum and Energy-Efficient Modulation Schemes for 6G: A Comprehensive Review, JOURNAL OFHIGH-FREQUENCY COMMUNICATION TECHNOLOGIES Vol. 03 (04) (2025), pp.393-404 e-ISSN:2836-9009 https://doi.org/10.58399/BFGC8342	7.10. 2025	UGC / Peer Reviewed
18	Dr. R. Saravanan	Manikandan M, Saravanan R , Kannayeram G, Saravanan M. Integrating renewable resources and electric Vehicles: An approach for effective energy management in DC microgrid. Solar Energy. 2025 Oct 1;299:113775.r https://doi.org/10.1016/j.solener.2025.113775	October 2025	WoS (SCIE)
19	Dr. V. Madhu Kumar	Vanteru, Madhu Kumar , Martin Margala, Sri Hari Nallamala, and Prasun Chakrabarti. "RIS-Aided mmWave MIMO Channel Estimation Using Rotation-Invariant Coordinate Convolutional Neural Network and Compressive Sensing." <i>Transactions on Emerging Telecommunications Technologies</i> 36, no. 12 (2025): e70289.	November 2025	WoS (SCIE)
20	Dr. V. Karthik Kumar, Dr. P. Kiran Kumar, Mrs. P. Lalitha, Mr. D. Nanadha	Vaigandla, Karthik Kumar, Kiran Kumar Padakanti, Lalitha Pothkanuri, and Dharavath Nanda . "A systematic review on cancer and lung cancer detection using machine learning." In <i>AIP Conference</i>	26 November 2025	Scopus

		<i>Proceedings</i> , vol. 3394, no. 1, p. 020003. AIP Publishing LLC, 2025. DOI: 10.1063/5.0309338		
21	Dr. V. Karthik Kumar, Dr. P. Kiran Kumar, Mrs. Ch. Kalyani, Dr. B. Naveen Kumar, Mr. K. Srikanth	Kalyani CH, Naveen Kumar B, Kiran Kumar P, Srikanth K, Karthik Kumar V. An Efficient Image Contrast Enhancement Using Hyperbolic Functions, Logarithmic Image Processing, and Statistical and Contrast Stretching Approaches. In <i>International Conference on Internet of Things and Connected Technologies 2024</i> Sep 27 (pp. 311-322). Singapore: Springer Nature Singapore. DOI: 10.1007/978-981-96-5918-0_27	1 Nov 2025	Scopus
22	Dr. V. S. Hariharan	R. Balaji, S. Nallusamy, V. S. Hariharan , Partha Sarathi Chakraborty, Experimental Investigation on Diesel Engine Performance Analysis of Ternary Fuel (Diesel - Biodiesel-Magnesium Oxide Nanoparticles) Mixtures, <i>SSRG International Journal of Mechanical Engineering</i> , vol. 12, no. 11, pp. 1-13, 2025. https://doi.org/10.14445/23488360/IJME-V12I11P101	Nov 2025	Scopus
23	Dr. V. Karthik Kumar	Vaigandla, Karthik Kumar. "AI and Edge Analytics for Real-Time IoT Decision-Making in SMAC Environments: A Comprehensive Review." <i>Journal of Sensors, IoT & Health Sciences (JSIHS, ISSN: 2584-2560)</i> 3, no. 4 (2025): 1-16. DOI: https://doi.org/10.69996/jsihs.2025016	31.12. 2025	UGC / Peer Reviewed
24	Mr. B. Karthhek Kumar	B. Kartheek Kumar , The Role of Big Data in Risk Management and Financial Forecasting – A Study", <i>International Journal of Emerging Technologies and Innovative Research</i> (www.jetir.org), ISSN:2349-5162, Vol.12, Issue 12, page no.e49-e52, Available : http://www.jetir.org/papers/JETIR2512403.pdf	December- 2025	UGC / Peer Reviewed
25	Mr. G. Vishnu Prasad, Dr. J. Vinay Kumar, Dr. S. Suresh, Dr. G. Naresh, Mr. S. Sravanvardhan Rao	Goranthala, Vishnu Prasad, Janga VijayKumar, Suresh Salendra, Naresh Goke, Sravanvardhan Rao Souda , and S. Kaliappan. "Enhancing Liver Disorder Diagnosis Through Interpolative Ensemble Machine Learning." In <i>2025 IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT)</i> , pp. 1-6. IEEE, 2025.	29 December 2025	Scopus
26	Mr. G. Vishnu Prasad	Goranthala, Vishnu Prasad , Naresh Padakanti, Naga Venkata Chaitanya Akula, K. Srivarun Reddy, Bhanu Chand Addanki, and S. Kaliappan. "GPU-Accelerated Deep Learning for Enhanced Sentiment	29 December 2025	Scopus

		Analysis in E-Commerce Product Recommendations." In 2025 <i>IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT)</i> , pp. 1-6. IEEE, 2025.		
27	Mr. G. Vishnu Prasad	Goranthala, Vishnu Prasad , Murali Mohan Malyala, Naresh Padakanti, K. Srivarun Reddy, Bhanu Chand Addanki, and S. Kaliappan. "URL Title Analysis Combined with Ensemble Learning for Enhancing Phishing Sites Detection." In 2025 <i>IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT)</i> , pp. 1-6. IEEE, 2025.	29 December 2025	Scopus
28	Dr. V. Venkateshwarlu, Dr. B. Ksrishna, Mr. P. Nagaraju	Velde, Venkateshwarlu , Bolukonda Prashanth, Bandi Krishna, P. Nagaraju , and Rajkumar Pogaku. "Hybrid machine learning for AI-driven cyber threat intelligence and proactive intrusion detection." <i>The European Physical Journal Plus</i> 140, no. 12 (2025): 1214. 10.1140/epjp/s13360-025-07155-6	16 December 2025	WoS (SCIE)
29	Dr. R. Saravanan	Arulkumar P, Karthick R, Saravanan R , Balamurugan K. Design of adaptive control framework for collaborative electric vehicle charging to improve hosting capacity in constrained distribution networks. <i>Journal of Energy Storage</i> . 2025 Dec 30;140:118980. https://doi.org/10.1016/j.est.2025.118980	30 December 2025	WoS (SCIE)
30	Dr. V. Venkateshwarlu, Dr. B. Ksrishna,	L. K. Suresh Kumar, Venkateshwarlu Velde, Bandi Krishna , Brain Tumours Mri Images Detection Using Deep Learning Based On Transfer Learning, <i>Journal of Neonatal Surgery</i> , ISSN(Online): 2226-0439, Vol. 14, Iss 12, 275-293, DOI: https://doi.org/10.52783/jns.v14.3151	2025	WoS (SCIE)
31	Dr. V. Karthik Kumar	Vaigandla, Karthik Kumar . "Quantum-Inspired FBMC Transceivers for 6G: Potential Applications, Fundamentals, Opportunities, Advantages, Challenges, Future Trends." <i>Applied Data Science and Analysis</i> 2026 (2026): 1-16. https://doi.org/10.58496/ADSA/2026/001	18.01. 2026	UGC / Peer Reviewed
32	Dr. V. Karthik Kumar, Dr. P. Kiran Kumar, Mrs. K.Madhavi, Mr. K. Srikanth	Vaigandla, Karthik Kumar, Kiran Kumar Padakanti, Madhavi Kesoju , and Kallepelli Srikanth . "Fully depleted silicon on insulator (FDSOI) MOSFET: Study and design." In <i>AIP Conference Proceedings</i> , vol. 3345, no. 1, p. 020198. AIP Publishing LLC, 2026. DOI: 10.1063/5.0298149	7 January 2026	Scopus
33	Dr. V. Karthik Kumar	Vaigandla, Karthik Kumar , R. Mohandas, Vuppula Manohar, and P.	7	Scopus

		Srinivasa Rao. "Performance analysis of GFDM using various PAPR minimization methods." In <i>AIP Conference Proceedings</i> , vol. 3345, no. 1, p. 020204. AIP Publishing LLC, 2026. DOI: 10.1063/5.0298150	January 2026	
34	Dr. V. Madhu Kumar	Punitha, Arockiasamy, Madhu Kumar Vanteru , Kaliyaperumal Manojkumar, and Tappeta Vinay Simha Reddy. "Blockchain-enabled spiking neural network for optimal routing and location privacy protection in IoT healthcare networks." <i>Iran Journal of Computer Science</i> 9, no. 1 (2026): 31. 10.1007/s42044-025-00362-5	19 Jan 2026	Scopus
35	Dr. V. Karthik Kumar, Dr. V. Madhu Kumar, Dr. S. Sravan Kumar, Mrs. K. Madhavi	Vanteru, Madhu Kumar , Anvesh Thatikonda, Sravan Kumar Vanam , Madhavi Kesoju , Ranjith Kumar Siddoju, and Karthik Kumar Vaigandla . "Adaptive Low-Complexity Hybrid Precoding Algorithms for 6G Communication Systems Operating at Higher Frequencies." In <i>2025 IEEE International Conference on Advanced Computing Technologies (ICACT)</i> , pp. 731-736. IEEE, 2025. doi:10.1109/ICACT67549.2025.11351430.	28 January 2026	Scopus
36	Dr. R. Saravanan	Senthilkumar, M., R. Saravanan , V. Madhu Kumar, and GG Raja Sekhar. "Profitable and reliable EV charging infrastructure: A time-series power flow model for improved voltage and power stability." <i>Journal of Energy Storage</i> 153 (2026): 120923. https://doi.org/10.1016/j.est.2026.120923	12 February 2026	WoS (SCIE)
37	Dr. V. S. Hariharan	Balaji, R., S. Nallusamy, V. S. Hariharan , Partha Sarathi Chakraborty, and K. Manogar. "Impact of MZO thermal barrier coating on diesel engine efficiency using juliflora methyl ester and MgO nanoparticles." <i>International Journal of Ambient Energy</i> 47, no. 1 (2026): 2627537. https://doi.org/10.1080/01430750.2026.2627537	16 Feb 2026	Scopus
38	Dr. V. Karthik Kumar	Vaigandla, K. K. (2026) . Interpretative Artificial Intelligence for Brain Tumor Detection and Classification. <i>Applied Data Science and Analysis</i> , 2026, 41-50.	21 Feb 2026	UGC / Peer Reviewed
39	Dr. V. Karthik Kumar, Dr. V. Madhu Kumar	Mohandas, R., Madhu Kumar Vanteru , N. Sivapriya, and Karthik Kumar Vaigandla . "Energy-Efficient Clustering With Hierarchical Bat-ESO Routing and AES Security in MANET." <i>International Journal of Communication Systems</i> 39, no. 7 (2026): e70483.	March 2026	WoS (SCIE)
40	Dr. R. Saravanan	Ranjith Kumar, K., Venkatesan, M., & Saravanan, R. (2026) . Optimizing Energy Management in Renewable DC Micro-Grids through	25 Jun 2026	WoS (SCIE)

		Distributed Charge/Discharge Control Using FLO-MSNN. <i>IETE Journal of Research</i> , 1-10.		
41	Dr. R. Saravanan, Dr. R. Ranadheer Reddy	Arulkumar, P., Ragidi, R. R., Saravanan, R., & Raja, R. (2026). Optimal Energy Management of Grid-Connected Unbalanced Microgrids with Renewable Generation and Electric Vehicle Integration under Dynamic Operating Conditions. <i>Energy</i> , 141759.	25 Jun 2026	WoS (SCIE)