

EEE Department

R&D Publications Academic Year 2025-26

Publications in Reputed /Approved Journals- Web of Science (SCIE/SCI/ESCI/Scopus)

Dept.	WoS Indexed		Scopus Indexed (Journals)	Scopus Indexed (Conferences)	Journals Indexed/UGC Care	Conferences to be indexed
	SCI/SCIE	ESCI				
EEE	04	01	10*	11*	05	03

S. No	Details
Journals: SCI/SCIE- Electrical and Electronics Engineering: 03	
1.	K. Harinadha Reddy, "Capacitive Tolerant Switching LL–CG Dual Active Bridge Circuit for Effective Bidirectional Energy Control in Electric Vehicle Park," International Journal of Circuit Theory and Applications (2026): 1–23, https://doi.org/10.1002/cta.70504. SCIE-Q1 Scopus link: https://www.scopus.com/pages/publications/105041248994?origin=resultslist
2.	Vanajakshi N, Uma Vani M, Srinivas Rao R, "Physically consistent ultra-lightweight AI for real-time harmonics and stability in converter-dominated grids: Systematic review, evidence synthesis, and deployment gaps," Computers and Electrical Engineering, Volume 137, 24th May 2026, 111248, ISSN 0045-7906, ISSN, 0045-7906 / 1879-0755 https://doi.org/10.1016/j.compeleceng.2026.111248. SCIE-Q1, I.F: 4.9 Scopus Link: https://www.scopus.com/pages/publications/105039687373?origin=resultslist
3.	Nagalingachary K., Durga Prasad Garapati, Kishore Yadlapati, "Optimal swarm based three stage balanced interleaved dual active bridge DC-DC converter design to enhance performance of inter-tied microgrid renewable energy system," Electric Power Systems Research, Volume 249, December 2025, 112063, ISSN 0378-7796. https://doi.org/10.1016/j.epsr.2025.112063. SCIE-Q2, I.F: 4.2 Scopus Link: https://www.scopus.com/pages/publications/105012582246?origin=resultslist
4.	A. Ananda Kumar, Dr. K. Srikumar, Dr. G. Nageswara Rao, A high-dimensional data-driven approach for enhancing cyber-physical attack detection in PV-connected distribution power grids using deep Q-networks, Computers and Electrical Engineering, Volume 129, Part B, January 2026, 110814, ISSN 0045-7906, https://doi.org/10.1016/j.compeleceng.2025.110814.

	SCIE-Q1, I.F: 4.9 Scopus Link: https://www.scopus.com/pages/publications/105022010437?origin=resultslist
Journals-ESCI - Electrical and Electronics Engineering: 01	
1.	A. Rajamallaiiah, S.V.K. Naresh, Y Raghuvamsi, S Manmadharao, Kishore Bingi, Anand R and Josep M. Guerrero, "Deep Reinforcement Learning for Power Converter Control: A Comprehensive Review of Applications and Challenges," IEEE Open Journal of Power Electronics, 6,1769. 24th October 2025,ISSN: 2644-1314 https://ieeexplore.ieee.org/document/11197642 ESCI, Q2, I.F: 3.9 Scopus Link: https://www.scopus.com/pages/publications/105019390863?origin=resultslist
Scopus Journals - Electrical and Electronics Engineering: 06	
1.	Inturu Bhavani Siva Phanindra, Shaik Hasane Ahammad, J. Sivavara Prasad, Saggurthi Spandana, Ahmed Nabih Zaki Rashed, "Sketic-FPGA: A Complete Machine Learning-Based Platform for Hand-Drawn Circuit Recognition and Hardware Implementation", International Journal of Engineering and Manufacturing (IJEM), Vol.16, No.3, pp.270-286, 2026. DOI:10.5815/ijem.2026.03.16 Scopus Link: https://www.scopus.com/pages/publications/105041102187?origin=resultslist
2.	Radha Rani K., Sobha Rani P., Swarnasri K., Varaprasad Janamal, Enhanced mother optimization algorithm-based optimal reconfiguration to accommodate emerging electric vehicle demand, Journal of King Saud University – Engineering Sciences, 37,3,1 12th June 2025 10.1007/s44444-025-00008-8 Q1 Last Academic Year Scopus Link: https://www.scopus.com/pages/publications/105007998259?origin=resultslist
3.	S. V. R. Lakshmi Kumari, M. Uma Vani, Intelligent Power Quality Improvement in Hybrid Renewable Energy Systems Via Statcom and Grey Wolf Optimization, Journal of Theoretical and Applied Information Technology, vol. 104, no. 9, May 2026, doi: 10.5281/zenodo.20252884. Scopus Link: https://www.scopus.com/pages/publications/105040392464?origin=resultslist
4.	Dr. Naim Shaikh, Dr. Vivek Veeraiah, Dr. A.Pankajam, Dr. Tarun Dalal, Dr. Mamatha G, Dr. G. Nageswara Rao, Dr. Vinod Motiram Rathod, Dr. Tripti Sharma, Deep Reinforcement Learning for Proactive Cybersecurity Threat Detection, Journal of Theoretical and Applied Information Technology, 104(6), ISSN: 1992-8645, 31st March 2026. https://doi.org/10.5281/zenodo.19367074 Scopus Link: https://www.scopus.com/pages/publications/105036069213?origin=resultslist

5.	K. Lakshmi, T. Vijay Muni, P. Hari Krishna Prasad, Budi Srinivasa Rao, G. Nageswara Rao, K. B. Anilkumar, Multi-carrier PWM techniques to assess the performance of a 5-level diode clamped multilevel inverter fed PMSM drive, International Journal of Power Electronics and Drive Systems, 17,1,582. March 2026, Doi: 10.11591/ijpeds.v17.i1.pp582-592 Q2, Impact Factor: (E-ISSN:1817-3195) Scopus Link: https://www.scopus.com/pages/publications/105032562374?origin=resultslist
6.	T Balaji, K Prasuna, Srinivas Padala, Anjaneyulu Naik R, Venkata Narayana T, G.N. Sowjanya, Differential Genetic Algorithm (DGA) Based Optimal Directed Random Testing for Reducing Interactive Faults, Journal of Theoretical and Applied Information Technology, Vol. 103, issue 16, pp. 6126-6136, August 2025, ISSN: 1992-8645, DOI: https://www.jatit.org/volumes/Vol103No16/13Vol103No16.pdf, Q4, Impact Factor: (E-ISSN:1817-3195) Scopus Link:
7.	Hemanth Sai Madupu, Bala Saibabu Bommidi, Imran Abdul, K. Rambabu, Bejjam S N Benarji, Hybrid Attention-Based Deep Learning Model for Wind Speed Forecasting in Renewable Energy Applications, Journal of Theoretical and Applied Information Technology, 103,15,5662, August 2025, ISSN: 1992-8645 https://www.jatit.org/volumes/Vol103No15/18Vol103No15.pdf Q4, Impact Factor: (E-ISSN:1817-3195) Scopus Link: https://www.scopus.com/pages/publications/105016849067?origin=resultslist
8.	Dr. Naim Shaikh, Dr. Mamatha G, Kukati Aruna Kumari, Dr. M.S. Giridhar, Dr. Krishna Nand Mishra, Dr. A. Pankajam, Dr. Ganesh Kumar R, Swati Gupta, Enhancing Healthcare Security with Blockchain-Powered Smart Contracts, Journal of Theoretical and Applied Information Technology, 103,19,8045, October 2025. ISSN: 1992-8645 https://www.jatit.org/volumes/Vol103No19/21Vol103No19.pdf Q4, Impact Factor: (E-ISSN:1817-3195) Scopus Link: https://www.scopus.com/pages/publications/105025669366?origin=resultslist
9.	Vendoti Suresh, Dondapati Ravi Kishore, T. Vijay Muni, P. Hari Krishna Prasad, Pydi Bala Krishna, A. V. G. A. Marthanda, Advanced soft-switching high-gain Re Boost Luo converter for enhanced efficiency in photovoltaic systems, International Journal of Power Electronics and Drive Systems (IJPEDS), Vol.17, No.2, June 2026, pp. 1177~1187. DOI: http://doi.org/10.11591/ijpeds.v17.i2.pp1177-1187 Scopus Link:

	https://www.scopus.com/pages/publications/105040980158?origin=resultslist
10.	Kota Srilakshmi Lavanya and Chilukoti Varaha Narasimha Raja," Load Frequency Control of Renewable Energy Sources based Power System using Kookaburra Optimization Algorithm Tuned Controller", International Journal on Electrical Engineering and Informatics - Volume 18, Number 1, March 2026, DOI: 10.15676/ijeei.2026.18.1.2 Scopus Link: https://www.scopus.com/pages/publications/105037063540?origin=resultslist
Scopus Conference Proceedings - Electrical and Electronics Engineering: 07	
1.	Seepana Gowthami; Janapati Sivavara Prasad; Botta Naidu; Eti Sri Latha; Nomula Malla Redddy; Srinivasarao Boddepalli, Renewable Energy Based Smart-Agriculture System, 2025 International Conference on Emerging Computation and Information Technologies (ICECIT), Tumkur, India 10.1109/ICECIT67774.2025.11451165 Scopus Link: https://www.scopus.com/pages/publications/105036371215?origin=resultslist
2.	P. Sivaraman, M. Vinoth Kumar, A. V. G. A. Marthanda, K. Perumal, R. Ramkumar & T. Kumaravel, Surface characterization of Rene 41 alloy using ultrasonic machining: an AFM and SEM approach, Conference Proceeding, Published: 22 April 2026, <i>Interactions</i> 247, article number 146 (2026), https://doi.org/10.1007/s10751-026-02525-7 Scopus Link: https://www.scopus.com/pages/publications/105037465439?origin=resultslist
3.	Y. Raghuvamsi, S. Parri, S. Batchu, I. Abdul and S. Parri, IoT Based Substation Equipment Monitoring System with CNN Integration, 2025 IEEE 4th World Conference on Applied Intelligence and Computing (AIC), GB Nagar, Gwalior, India, November 2025, 672. doi: 10.1109/AIC66080.2025.11212121 Scopus Link: https://www.scopus.com/pages/publications/105023641411?origin=resultslist
4.	P. Srihari, R. S. Narendra and I. S. Durga, Adaptive Weighted Fusion of EfficientNetV2 for Acute Lymphoblastic Leukemia Detection, 2025 International Conference on Advancements in Smart, Secure and Intelligent Computing (ASSIC), Bhubaneswar, India, September 2025. doi: 10.1109/ASSIC64892.2025.11157934 Scopus Link: https://www.scopus.com/pages/publications/105018082034?origin=resultslist
5.	J. V. Pavanchand, E. N. Praveena, G. Vijay, K. K. Babu and B. V. S. Thrinath, Solar Based Surveillance Robot, 2025 Second International Conference on Networks and Soft Computing (ICNSoC), Vadlamudi, India, 672. January 2026 10.1109/ICNSoC66817.2025.00124 Scopus Link:

	https://www.scopus.com/pages/publications/105033230400?origin=resultslist
6.	L. G. Rao, S. Nethani, K. S. Lavanya, M. Chiranjeevi and S. Bhargav, Aerial Sensor Networks for Enhanced Wind Energy Forecasting in Complex Terrains, 2025 IEEE International Conference on Smart Power, Energy, Renewables, and Transportation (SPERT), Surat, India, April 2026. https://ieeexplore.ieee.org/document/11469601 Scopus Link: https://www.scopus.com/pages/publications/105038075133?origin=resultslist
7.	I. Abdul, K. Ramu, P. Deepthi, K. Narasimha Rao and P. Sujanika, Deep Learning Based Distribution State Estimation and Cyber Attack Detection, 2025 IEEE 4th World Conference on Applied Intelligence and Computing (AIC), GB Nagar, Gwalior, India, 347. November 2025. doi: 10.1109/AIC66080.2025.11211999 Scopus Link: https://www.scopus.com/pages/publications/105023636683?origin=resultslist
8.	A. Nagarajan, M. Mallam, H. Inokawa, H. Satoh, M. K. Linga Murthy and K. Ramalingeswara Prasad, "Double Resonance SERS Substrate by Symmetry Breaking," 2026 Innovations in Machine, Engineering, and Digital Conference (IMED), Kota Kinabalu, Malaysia, 2026, pp. 1-4, doi: 10.1109/IMED68921.2026.11484166. Scopus Link: https://www.scopus.com/pages/publications/105038365496?origin=resultslist
9.	Raja Nayak M., Krishna Kasimalla V., Abdul I., Rajesh Babu Y. "Design of Aluminium Air Fuel Cells for Electric Vehicle Applications", IOP Conference Series: Earth and Environmental Science, 1529 (1), art. no. 012005, DOI: 10.1088/1755-1315/1529/1/012005 Scopus Link : https://www.scopus.com/pages/publications/105014604565?origin=resultslist
10.	Uma Vani M, P. P. D and K. B. B, "The Efficiency-Quality Dilemma: Real-Time HIL Validation of MPPT Algorithms for Resilient Rural PV-Grid Integration," 2025 IEEE 4th International Conference on Smart Technologies for Power, Energy and Control (STPEC), Goa, India, 2025, pp. 1-7, doi: 10.1109/STPEC66316.2025.11490526. Scopus Link: https://www.scopus.com/pages/publications/105040676631?origin=resultslist
11.	T. Nagaraju, A. Srinivasarao, M. Saritha, P. R. Kumar, S. Reshma Begum and M. R. Nayak, "Aluminium Air Fuel Cells: Harnessing Metal Power for Electric Vehicles," 2025 Seventh International Conference on Computational Intelligence and Communication Technologies (CCICT), Sonapat, India, 2025, pp. 710-715, doi: 10.1109/CCICT65753.2025.00113. Scopus Link: https://www.scopus.com/pages/publications/105013470306?origin=resultslist
Journals to be Indexed- Electrical and Electronics Engineering: 04	
1. A.V G.A. Marthanda, G G Raja Sekhar, "Design and Performance Analysis of a Five-Level Multilevel Inverter-Based STATCOM for Distribution Network Power Quality Enhancement", International Journal for Modern Trends in Science and Technology, Volume 12, Issue 01, pages 08-14, ISSN: 2455-3778, DOI: https://doi.org/10.5281/zenodo.18245608(Yet to be indexed)	

2. Dr. Naim Shaikh, Dr. Vivek Veeraiah, Dr. A.Pankajam, Dr. Tarun Dalal, Dr. Mamatha G, Dr. G. Nageswara Rao, Dr. Vinod Motiram Rathod, Dr. Tripti Sharma, “Deep Reinforcement Learning for Proactive Cybersecurity Threat Detection”, Journal of Theoretical and Applied Information Technology, Vol.104. No.6, pp. 390-409, March 2026. ISSN: 1992-8645, E-ISSN: 1817-3195. DOI: https://zenodo.org/records/19367074(Yet to be indexed)
3. Sivaraman, P., Kumar, M.V., Marthanda, A.V.G.A. et al. “Surface characterization of Rene 41 alloy using ultrasonic machining: an AFM and SEM approach”, Interactions, Vol. 247, No. 146, pp. 1-10, 2026. Doi: https://doi.org/10.1007/s10751-026-02525-7 (Yet to be indexed)
4. Dilip I Sangotra, Rajkumar A, Karimulla Syed, Rajan N, Hariprasath K, Sivavara Prasad J,”Fabrication of Bio-based Protective Fabrics Functionalized with ZnO/MgO Nanoparticles for Antibacterial and Chemical Detoxification Application”, J. Environ. Nanotechnol., Volume 15, No 2 (2026) pp. 301-314https://doi.org/10.13074/jent.2026.06.2622159
5. B, Manjunatha, Devanna, H., Kumar, C.H. Mohan Sai, Giridhar, M.S., Gautam, Rohit Kumar Singh and Nanthaamornphong, Aziz. "Intelligent algorithms for enhancing power amplifier performance in optical OFDM systems for VLC applications" Journal of Optical Communications. https://doi.org/10.1515/joc-2026-0241
Conferences to be Indexed- Electrical and Electronics Engineering: 04
1. G. Charan Babu, Ch. Venkata Sai Kumar, T. Naveen Kumar, M. UmaVani, “A Hybrid IoT-Cloud Framework with Real-Time Power Theft Identification and Automated Countermeasures” in 2nd International Conference on Sustainable Power and Energy Research (ICSPER 2025), NIT Srinagar, J&K, India, July 11-12, 2025.
2. M. UmaVani, “Intelligent DSM Strategies and EV Scheduling for Commercial Microgrids: A Techno-Economic Analysis using HOMER Grid”, International Conference on Advancements in Power Electronics, Power and Energy Systems (ICAPEPES 2025), Oct 24, 2025.
3. Divakar, B. & Chenniappan, Sharmeela & Krishna, Vakada & Reddy, N.Malla & Prasad, J.Sivavara & Sura, Srinivasa. (2026). Artificial Neural Network Controller for Improving Power Quality in Grid-Integrated Wind Energy Conversion Systems. 1-6. 10.1109/ICISCN67954.2026.11566519.