

Electrical Engineering Department

Publications (2024-2025)

International Journal

1. Sumangal Bhowmick, **Aveek Chattopadhyaya**, Jitendra Nath Bera, “Fast islanding detection using intra harmonic analysis and support vector machine based root cause identification in grid connected DC microgrid”, *Renewable Energy Focus* (Science Direct, Elsevier), 54 (2025) 100703, 15.03.2025, pp. 1-13, <https://doi.org/10.1016/j.ref.2025.100703>. (SCOPUS/ESCI, Q1 Journal)
2. Sumangal Bhowmick, **Aveek Chattopadhyaya**, Jitendra Nath Bera, “Detection and Classification of Faults in Renewable Energy Penetrated Stand Alone Microgrids Using SVM and DWT Techniques” *Electric Power Systems Research*, 245, p.111634, 17.03.2025. <https://doi.org/10.1016/j.epsr.2025.111634> (SCIE/SCOPUS, Q1 Journal)
3. **Aveek Chattopadhyaya**, **Suman Ghosh**, Sumangal Bhaumik, Surajit Chattopadhyay, “Radial basis neural network and discrete wavelet transform based rms estimation for fault assessment in three phase transmission line”, *Engineering Review*, Volume 45, Issue 2, Pages 129-141, 29.12.2025. **DOI: 10.30765/er.2779** [ESCI/SCOPUS, Q3 Journal]
4. Soumya Kanti Bandyopadhyay, Sumangal Bhaumik, **Aveek Chattopadhyaya**, Sananda Pal, **Shyamal Kumar Roy**, & Diptan Sinha, “Sequence Component Based RMS Computation for the Detection of Single Phasing of SVPWM Fed Induction Motor”, *Journal of Computational Analysis and Applications* (JoCAAA), Vol. 33, No. 07, pp. 8–15, 05.09.2024. (SCOPUS, Q4 Journal) <https://eudoxuspress.com/index.php/pub/article/view/997>
5. Akash Bhowmick, Kumari Guriya Rani, Arghyadeep Ghosh, **Aveek Chattopadhyaya**, **Suman Ghosh**, **Shyamal Roy**, **Amit Debnath**, “Advanced Digital Signal Processing, Interpolation and Extrapolation Based Symmetrical Fault Assessment in Transmission Line”, *Journal of Scientific Research*, 01.01.2025, pp. 43-55, ISSN 2070-0237, (UGC care I). <https://doi.org/10.3329/jsr.v17i1.72628>
6. Nidhi R, Biman Kumar Saha Roy, **Debasree Saha**, Manas Mukherjee, “Performance Comparison of PSO, HGSO, and DE Optimization Techniques for Computation of Directional Overcurrent Relay Coordination in Power Systems”, *Engineering Review*, Volume 44, no. 2, pp.

69-86, Nov'2024, (SCOPUS and Web of Science (Emerging Sources Citation Index). **DOI:**
[10.30765/er.2429](https://doi.org/10.30765/er.2429)

10. **Aveek Chattopadhyaya**, Suparna Biswas, Saswati Rakshit, Nanda Dulal Jana, and Abhijit Mondal, “Statistical Signal Processing and Machine Learning Based Diagnosis of Arrhythmia”, *IJCISIM*, vol. 17, pp. 362–374, 29th May 2025. [**Q4 Journal**]
<https://doi.org/10.70917/ijcisim-2025-0024>