

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>