

Faculty Profile



Dr.A.K.Parvathy

Professor & HOD,EEE

Hindustan Institute of Technology and Science

akparvathy@hindustanuniv.ac.in

eee@hindustanuniv.ac.in

Experience : 25 years

Research Area : Power Systems, Renewable Energy Systems, Power Electronics

Recent Publications:

1. P.Pal, A.K.Parvathy, et..al., “IoT-Based Real Time Energy Management of Virtual Power Plant Using PLC for Transactive Energy Framework” IEEE Access, Vol. 9, pp. 97643–97660 (2021)
2. P.Pal, A.K.Parvathy, et..al., “Optimal Dispatch Strategy of Virtual Power Plant for Day-Ahead Market Framework” Applied Sciences, 11(9), pp. 1-25 (2021)
3. Karthik,N., Parvathy, A.K., Arul, R., “Multi-Objective optimal reactive power dispatch using levy interior search algorithm” International Journal on Electrical Engineering and Informatics (2020)
4. Muthusamy M, Parvathy, A.K., “Implementation of Modified Field-Oriented Control Scheme for Improving the Fault Ride Through ability of BDFIG system” Journal of Circuits, Systems and Computers (2020).
5. Getzjal Anbu Mani, P., Parvathy, A.K., “High gain boost converter with modified voltage multiplier for stand alone PV system” Indonesian Journal of Electrical Engineering and Computer Science, 14(1), pp. 495-502, (2019)
6. Karthik,N., Parvathy, A.K., Arul, R., “A review of optimal operation of microgrids” Indonesian Journal of Electrical Engineering and Computer Science, 14(1), pp. 1-8 , (2019)
7. Karthik,N., Parvathy, A.K., Arul, R.,” Multi-objective economic emission dispatch using interior search algorithm” International Transactions on Electrical Energy Systems, 29(1),e2683, (2019)
8. N.Mahiban Lindsay, A.K.Parvathy, “Power System Reliability Assessment in a Complex Restructured Power System” International Journal of Electrical and Computer Engineering, ISSN: 2088-8708, Scopus Indexed. May (2018)
9. N.Mahiban Lindsay,A.K.Parvathy, “Optimal Location of Distributed Generation for Loss Minimization in Restructured Power system Using Genetic Algorithm”

International Journal of Engineering and Technology(UAE), ISSN:2227-524X, Scopus Indexed, August (2018)

10. N.Mahiban Lindsay, A.K.Parvathy, “Power System Reliability Evaluation in a Restructured Power Industry” International Journal of Engineering and Technology(UAE), ISSN:2227-524X, Scopus Indexed, August 2018
11. M.Sujatha, A.K.Parvathy, “ Reliability analysis of boost converter used for solar PV system”, Journal of Advanced Research in Dynamical and Control Systems, 2017
12. Maheswari Muthuswamy, A.K.Parvathy “ Impact of different wind turbine generators on radial distribution system : comparative analysis” Journal of Advanced Research in Dynamical and Control Systems, 2017
13. N.Karthik, .A.K.Parvathy,” Non – convex economic load dispatch using Cuckoo search algorithm” TELKOMNIKA Indonesian Journal of Electrical Engineering and Computer Science. Jan 2017
14. R.Karthikeyan and A.K.Parvathy,”Real Time Energy Optimization using Cyber Physical Controller for Micro-Smart Grid Applications”, International Journal of Control Theory and Applications, 9 (33), 2016, pp. 145-156.