

Publications List of **Dr.B.Saravanan (VIT University)** in the last 5 years

1. **B Saravanan**, S Hari Charan Cherukuri, G Arunkumar, "A rule-based approach for improvement of autonomous operation of hybrid microgrids", Journal of Electrical Engineering, Springer, Pages 1-16, 2020.
2. **B Saravanan**, S Das, S Sikri, DP Kothari, "A solution to the unit commitment problem—a review" Frontiers in Energy 7 (2), 223-236
3. **B Saravanan**, ER Vasudevan, DP Kothari, "Unit commitment problem solution using invasive weed optimization algorithm" International Journal of Electrical Power & Energy Systems 55, 21-28
4. **B Saravanan**, KP Kumar, "Recent techniques to model uncertainties in power generation from renewable energy sources and loads in microgrids—a review" Renewable and Sustainable Energy Reviews 71, 348-358
5. **B Saravanan**, C Kumar, DP Kothari, "A solution to unit commitment problem using fireworks algorithm" International Journal of Electrical Power & Energy Systems 77, 221-227
6. **B Saravanan**, KP Kumar, KS Swarup, "Optimization of renewable energy sources in a microgrid using artificial fish swarm algorithm" Energy Procedia 90, 107-113
7. **B Saravanan**, ER Vasudevan, DP Kothari, "A solution to unit commitment problem using invasive weed optimization algorithm" Frontiers in Energy 7 (4), 487-494
8. **B Saravanan**, "DSM in an area consisting of residential, commercial and industrial load in smart grid" Frontiers in Energy 9 (2), 211-216
9. **B Saravanan**, T Velmurugan, S Khara, S Nandakumar, "Seamless Vertical Handoff using Invasive Weed Optimization (IWO) algorithm for heterogeneous wireless networks" Ain Shams Engineering Journal 7 (1), 101-111
10. **B Saravanan**, SHC Cherukuri, "A novel energy management algorithm for reduction of main grid dependence in future smart grids using electric springs", Sustainable Energy Technologies and Assessments 21, 1-12
11. **B Saravanan**, G Muthuselvi, "Real Time Speech Recognition Based Building Automation System" ARPN Journal of Engineering and Applied Sciences 9 (12), 2831-2839
12. **B Saravanan**, SP Karthikeyan, A Jain, I Ranu, IJ Raglend, DP Kothari, "A comparative study on transmission network cost allocation methodologies" 2013 International Conference on Power, Energy and Control (ICPEC), 145-152
13. **B Saravanan**, S Sikri, KS Swarup, DP Kothari, "Unit commitment using DP—An exhaustive working of both classical and stochastic approach" 2013 International Conference on Power, Energy and Control (ICPEC), 382-385
14. **B Saravanan**, SHC Cherukuri, "An overview of selected topics in smart grids" Frontiers in Energy 10 (4), 441-458
15. **B Saravanan**, KP Kumar, KS Swarup, "A two stage increase-decrease algorithm to optimize distributed generation in a virtual power plant" Energy Procedia 90, 276-282
16. **B Saravanan**, KP Kumar, "Day ahead scheduling of generation and storage in a microgrid considering demand Side management" Journal of Energy Storage 21, 78-86

17. **B Saravanan**, MBH Kumar, P Sanjeevikumar, F Blaabjerg,"Review on control techniques and methodologies for maximum power extraction from wind energy systems" IET Renewable Power Generation 12 (14), 1609-1622
18. **B Saravanan**, S Mishra, D Nag,"A solution to stochastic unit commitment problem for a wind-thermal system coordination"Frontiers in Energy 8 (2), 192-200
19. **B Saravanan**, ER Vasudevan,"Emission constrained unit commitment problem solution using invasive weed optimization algorithm" 2014 International Conference on Advances in Electrical Engineering (ICAEE), 1-6