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## **Publications:**

## **BOOK CHAPTER**

1. B. Saravanakumar, K. K. Purushothaman, S.Vadivel, A. Sakthivel, N. Karthikeyan and P. A. Periasamy, 2020 "Supercapacitor Electrodes Utilizing Graphene-Based Ternary Composite Materials. (Accepted for publication in Wiley)

## **JOURNALS**

- 1. Muthukumar K, Jayalalitha S, Sureshkumar K, Sakthivel A, Balamurugan K, Ramasamy M, 2018, "Application of Hybrid Heuristic Technique for Optimal Shunt Capacitors Planning Problem in Radial Distribution Networks" Springer Journal on Soft Computing, Vol. 23, pp.1–19.
- 2. Rameshkumar, K., Indragandhi, V., Sakthivel, A. and Palanisamy, K. (2018) 'FPGA implementation and analysis of model predictive current control for three-phase voltage source inverter', Int. J. Power Electronics, Vol. 9, No. 1, pp.29–51.
- 3. Aruchamy Sakthivel, Vijayakumar P, Senthilkumar A, Lakshminarasimman L and Paramasivam S, 2015, 'Experimental investigations on Ant Colony Optimized PI control algorithm for Shunt Active Power Filter to improve Power Quality', Elsevier Journal on Control Engineering Practice, vol.42, pp.153-169. DOI:10.1016/j.conengprac.2015.04.013.
- 4. Sakthivel, P. Vijayakumar and A. Senthilkumar, 'Performance Assessment of Direct and Indirect Current Control Strategies for Shunt Active Power Filter', ARPN Journal of Engineering and Applied Sciences, Vol. 10, No. 9, May 2015.
- 5. Rameshkumar Kanagavel, A. Sakthivel, "Effective Current Control Design and Analysis of Single Phase Inverter for Power Quality Improvement", ARPN Journal of Engineering and Applied Sciences, Vol. 10, No. 7, April 2015, pp. 3170-3177.
- 6. Sakthivel Aruchamy, Lincy Luciana, "Performance Assessment of Fuzzy Logic Controller for Shunt Active Power Filter", International Journal of Applied Engineering Research, Vol.10, No.51, pp.380-386.

- 7. P. Mohankumar, A. Sakthivel and D.Gnanaprakasam, "Cuckoo Search: A Metaheuristic Approach for Selective Harmonic Elimination PWM in Multilevel Inverters", International Journal of Applied Engineering Research, Vol.10, No.51, pp.108-113, 2015.
- 8. Rameshkumar Kanagavel, V. Sureshkumar, V. Damin Doori and A. Sakthivel, "FPGA Implementation and Simulation of Model Predictive Current Control Strategy for Single Phase Voltage Source Inverter", International Journal of Applied Engineering Research, Vol. 10 No.1, pp. 193-199, 2015.
- 9. Sakthivel Aruchamy, Vijayakumar P, Senthilkumar A, "Design of Ant Colony Optimized Shunt Active Power Filter for Load Compensation", **International** Review of Electrical Engineering, Vol.9, No.4, 725-34, 2014. DOI: <a href="http://dx.doi.org/10.15866/iree.v9i4.2182">http://dx.doi.org/10.15866/iree.v9i4.2182</a>
- 10. K.Rameshkumar, A.Sakthivel, Dr.A.Senthilkumar "Digital Predictive Current Control Strategy for Voltage Source Inverter" Paper Published in **International** Journal of Engineering Research and Technology, Vol.3, no.8, August-2014.
- 11. S.Thiruvenkadam, Dr.A.Nirmalkumar, A.Sakthivel, "Energy Management of Large Distribution Network with Plant Growth Simulation Algorithm and Heuristic Fuzzy," *International Journal of Electronics and Electrical Engineering*, Vol. 4, No. 2, pp. 98-107.
- 12. S.Thiruvenkadam, Dr.A.Nirmalkumar, A.Sakthivel, "Optimal Reconfiguration Algorithm for Radial Distribution System Feasible under Normal and Abnormal Conditions," *International Journal of Applied Engineering Research*, Vol. 4, No. 9, pp. 1607-1618.
- 13. S.Thiruvenkadam, Dr.A.Nirmalkumar, A.Sakthivel, "Distribution Feeder energy Conservation by using Hybrid Neuro-Fuzzy Approach," *i-managers Journal on Electrical Engineering*, Vol. 1, No. 3, pp. 45-52.