

Dr.J. Jayachandran

List of Publications (Last 5 Years)

1. **J Jayachandran**, S Malathi, “Improved power quality buck boost converter for SMPS”, **International Journal of Electrical and Computer Engineering**, 2019, 9(2), 789-801.
2. S Malathi, **J Jayachandran**, “Neural Network based pqr Theory for Harmonic Reduction and Neutral Current Mitigation”, **International Journal of Electrical and Computer Engineering**, 2018, 8(2),pp825-836.
3. **Jayachandran. J**, Malathi, S. “Improved power quality zeta converter based SMPS for PC power supply”, **ARPN Journal of Engineering and Applied Sciences**, 2018, EID: 2-s2.0-85047382672.
4. S. Malathi, **J.Jayachandran**, R. Murali Sachithanandam, “Performance Comparison of Neural Network Based Multi Output SMPS with Improved Power Quality and Voltage Regulation.” **Journal of Control Engineering and Control Informatics**, 2018, EID: 2-s2.0-85044394514.
5. **Jayachandran, J.** and Malathi, S, “Neural network based ilst control strategy for a dstatcom with solar photovoltaic system for power quality improvement”, **International Review of Automatic Control**, 2017, 10(5), 399-409.
6. Pathan Soheba Taj, **J Jayachandran** and Malathi S, “Renewable Energy Systems with Integrated Active Filter Capabilities”, **ARPN Journal of Engineering and Applied Sciences**, Vol 12, No 16, 2017,
7. Srividya A. S., S. Malathi and **J. Jayachandran**, “Welding Power Supply with Improved Power Quality”, **ARPN Journal of Engineering and Applied Sciences**, Vol 12, No 16, 2017,

8. S Malathi, **J Jayachandran**, R. Murali Sachithanandam, "Performance Analysis of Neural Network Based Bridgeless Converters for Switched Mode Power Supplies", **International Review of Automatic Control**, 9(5), 304-315, 2016, DOI: 10.15866/ireaco.v9i5.9770.
9. **J Jayachandran**, RM Sachithanandam, "ANN based controller for three phase four leg shunt active filter for power quality improvement - **Ain Shams Engineering Journal**, 2016 – Elsevier, DOI: 10.1016/j.asej.2015.03.007.
10. **J Jayachandran**, R. Murali Sachithanandam, "Artificial Intelligence Based Controller for Series and Shunt Active Filters for Power Quality Improvement", **International Review of Automatic Control**, 2015, DOI: <https://doi.org/10.15866/ireaco.v8i3.5942>.
11. Vignesh, N.R., Malathi, S., **Jayachandran, J.**, "Bridgeless converter based switched mode power supply with power quality improvement", **International Journal of Applied Engineering Research**, 10(6):15679-15694, 2015.
12. Manoj Kumar, M., **Jayachandran. J**, Malathi.S, "Comparison of different control techniques for DSTATCOM with PV array for power quality improvement", **International Journal of Applied Engineering Research**, 10(7), 17085-17101, 2015.
13. Muralekrishnen, R. **Jayachandran, J.**, Malathi, S., "Implementation of non-linear control strategy for hybrid D-statcom in mitigation of harmonics and reactive power compensation", **International Journal of Applied Engineering Research**, 10(7), 17103-17119, 2015.
14. Arun Prakash, R., **Jayachandran. J**, Malathi.S, "Implementation of photovoltaic and isolated wind energy based ILST control strategy for power quality improvement", **International Journal of Applied Engineering Research**, 2015, 10(7), 16709-16726.
15. **Jayachandran, J.**, Murali Sachithanandam, R. "Neural Networkbased control strategy for hybrid DSTATCOM in three phase four wire distribution system under non-ideal voltage source conditions and varying load conditions", **International Review of Electrical Engineering**, 2015, 10 (3),421-433.
16. **Jayachandran, J.** and Sachithanandam, R.M, "Neural Network-Based Control Algorithm for DSTATCOM under Nonideal Source Voltage and Varying Load

Conditions”, **Canadian Journal of Electrical and Computer Engineering**, 2015, 38(4), 307-317, DOI: 10.1109/CJECE.2015.2464109.

17. **Jayachandran, J.** and Sachithanandam, R.M, “Performance investigation of artificial intelligence based controller for three phase four leg shunt active filter”, **Frontiers in Energy**, 2015,9(4), 446-460, DOI: 10.1007/s11708-015-0378-2.
18. **Jayachandran, J.** and Murali Sachithanandam, R, “Performance investigation of unified power quality conditioner using artificial intelligent controller”, **International Review on Modelling and Simulations**, 2015, 8(1),48-56, DOI: 10.15866/iremos.v8i1.5396.
19. Prasanth. R.V., Malathi, S. and **Jayachandran. J.**, “Power quality improvement in Smmps using modified bridgeless cuk converter”,**International Journal of Applied Engineering Research**,2015, 10(7), 17121-17135.