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AREA OF SPECIALIZATION: Power Electronics- AC-DC Converter Power Quality

PUBLICATION UPLOAD (LAST 5 YEARS PUBLICATION LISTS)

1. Malathi, S., J. Jayachandran, "FPGA Implementation of NN based LMS-LMF control algorithm in DSTATCOM for power quality improvement" Control Engineering Practice, Vol. 98, May2020, Pages 1-21.
2. Jayachandran, J., and **S. Malathi**, "Improved power quality buck boost converter for SMPS." International Journal of Electrical and Computer Engineering 9.2 (2019): 789.
3. Jayachandran, J., and **S. Malathi**, "Improved power quality zeta converter based SMPS for PC power supply" ARPN Journal of Engineering and Applied Sciences Volume 13, Issue 9, 1 May 2018, Pages 3162-3171.
4. **Malathi**, S., and J. Jayachandran, "Neural Network based pqr Theory for Harmonic Reduction and Neutral Current Mitigation." International Journal of Electrical & Computer Engineering (2088-8708) 8.2 (2018).
5. **Malathi**, S., J. Jayachandran, and R. Murali Sachithanandam, "Performance Comparison of Neural Network Based Multi Output SMPS with Improved Power Quality and Voltage Regulation." CONTROL ENGINEERING AND APPLIED INFORMATICS 20.1 (2018): 86-97.
6. Jayachandran, J., and **S. Malathi** "Neural Network Based ILST Control Strategy for a DSTATCOM with Solar Photovoltaic System for Power Quality Improvement,(2017)." International Review of Automatic Control (IREACO) 10.5: 399-409.
7. Taj, P.S.,Jayachandran, J., and **S. Malathi**, "Renewable energy systems with integrated active filter capabilities" ARPN Journal of Engineering and Applied Sciences, Volume 12, Issue 16, 1 August 2017, Pages 4656-4665.

8. Srividya, A.S., **S. Malathi** and Jayachandran, J., "Renewable energy systems with integrated active filter capabilities" ARPN Journal of Engineering and Applied Sciences, Volume 12, Issue 16, 1 August 2017, Pages 4656-4665.
9. **Malathi, S.**, Murali Sachithanandham, R., and Jayachandran, J, "Performance analysis of neural network based bridgeless converters for switched mode power supplies" International Review of Automatic Control, Volume 9, Issue 5, 2016, Pages 304-315.
10. Vignesh, N.R., **Malathi, S.**, and Jayachandran, J, "Bridgeless converter based switched mode power supply with power quality improvement" International Journal of Applied Engineering Research Volume 10, Issue 6, 2015, Pages 15679-15694.
11. 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 Volume 10, Issue 7, 2015, Pages 17085-17101.
12. 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, Volume 10, Issue 7, 2015, Pages 17103-17119.
13. Arun Prakash, R. and Jayachandran, J. and **Malathi, S.**, "Implementation of photovoltaic and isolated wind energy based ILST control strategy for power quality improvement" International Journal of Applied Engineering Research, Volume 10, Issue 7, 2015, Pages 16709-16726.
14. **Malathi, S.**, Murali Sachithanandam, R, "Neural network based control for power quality improvement and voltage regulation in multi output Switched mode power supply" International Journal of Applied Engineering Research, Volume 10, Issue 7, 2015, Pages 16709-16726.
15. Prasanth, R.V., **Malathi, S.**, Jayachandran, J. "Power quality improvement in Smmps using modified bridgeless cuk converter" International Journal of Applied Engineering Research, Volume 10, Issue 7, 2015, Pages 17121-17135.