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Publications-Journal

1. **Sudhakaran M**, Ajay-D-Vimal Raj P and Prabakaran S, “Design and Implementation of Modified Zeta Converter for BLDC Driven Solar PV Fed Water Pumping System”, International Journal for Research in Applied Science & Engineering Technology, Volume 8 Issue X Oct 2020, ISSN: 2321-9653
2. Gorai, Soumen, D. Sattianadan, V. Shanmugasundaram, S. Vidyasagar, GR Prudhvi Kumar, and **M. Sudhakaran**. "Investigation of voltage regulation in grid connected PV system." Indonesian Journal of Electrical Engineering and Computer Science 19, no. 3 (2020): 1131-1139.
3. Prabakaran, S., Tamilselvi, S., Raj, P.A.D.V., **Sudhakaran, M.** and Rajasekar, S., 2018. Solution for Multi-area Unit Commitment Problem Using PSO-Based Modified Firefly Algorithm. In Advances in Systems, Control and Automation (pp. 625-636). Springer, Singapore.
4. P. Durai, **M.Sudhakaran** and P.Ajay-D-Vimal Raj, “Amalgamated Nine Switch Inverter with PV and Self Supported DVR System”, International Journal of Electrical and Electronics Engineering, Special Issue April 2017.
5. Prabakaran, S., T. Saranya, P. Ajay-D-Vimalraj, and **M. Sudhakaran**. "Three Phase Four Wire Dstatcom Strategy for Power Quality Improvement Using T Connected Transformer." International Journal on Recent Technologies in Mechanical and Electrical Engineering 4, no. 4 (2017): 14-19.
6. P.Ajay-D-Vimal Raj, R. Sundaramurthy, S.Jeevananthan and **M.Sudhakaran**, “Luenberger algorithm based Harmonics Estimator for Front End Rectifier and PWM-VSI” International Journal of Innovative works in Engineering and Technology, Vol.3, No.1, Feb.2017,82-92.
7. Sundaram, C. Shanmuga, **M. Sudhakaran**, and P. Ajay-D-Vimal Raj. "Tabu search-enhanced artificial bee colony algorithm to solve profit-based unit commitment problem with emission limitations in deregulated electricity market." International Journal of Metaheuristics 6.1-2 (2017): 107-132.
8. Kumar, P. Mahes, and **M. Sudhakaran**. "Design of ANN-based adaptive hysteresis band control scheme for compensation of THD and reactive power demand in PV tied grid system using DSTATCOM." International Journal of Computational Systems Engineering 3.1-2 (2017): 3-13.
9. K. Esaivanan, **M.Sudhakaran**, P.Ajay-D-Vimal Raj, “Prevention of circulating current in bidirectional AC/DC converter” International Journal of Signal Processing Systems, Vol.2, No.1, June.2016.
10. Sanjeevikumar, J., and **M. Sudhakaran**. "Application of integrated GA-PSO-TS algorithm for solving hydro thermal scheduling problem with prohibited operating zones." International Journal of Applied Engineering Research 11.6 (2016): 3842-3847.
11. M. Dheebheha, **M. Sudhakaran** and P. Ajay-D-Vimal Raj, “Analysis of Shunt Hybrid Power Filter with Thyristor Controlled Reactor for Power Quality Improvement”, Journal of Power Systems and Microelectronics, Vol.2, No.1, June 2016, Pages : 41-50
12. T. Suresh Padmanabhan, S.Jeevananthan, **M.Sudhakaran** , “An adaptive selective current harmonic elimination technique using recursive least square (RLS) algorithm for three phase AC voltage controllers” AMSE Journals-2016-Series: Modelling A, Vol. 86, No. 2, 2016.
13. Vanitha, R., J. Baskaran, and **M. Sudhakaran**. "Multi objective optimal power flow with STATCOM using DE in WAFGP." Indian Journal of Science and Technology 8.2 (2015): 191-198.

National / International Conference:

1. **M.Sudhakaran**, A. Suganya, “Performance Analysis of High Step Up DC-DC converter for Photovoltaic System” , IEEE Sponsored International Conference (ICCPCT-2015), March 19-20, Noorul Islam University, Kanyakumari, 2015.

2. T. Suresh Padmanabhan, **M. Sudhakaran**, S. Jeevananthan, “Adaptive Current Harmonic Elimination in a Three Phase AC-AC Matrix Converter using RLS Algorithm”, International Conference on Soft Computing Systems (ICSCS-2015), April 20-21, Noorul Islam University, Kanyakumari, 2015.
3. K. Esaivanan, **M.Sudhakaran**, P.Ajay-D-Vimal Raj, “Prevention of circulating current in bidirectional AC/DC converter”, International Conference “ICPSACO-2015”, Dec.10-11, 2015.
4. M. Dheebheha, **M.Sudhakaran**, P.Ajay-D-Vimal Raj, “Analysis of shunt hybrid power filter with thyristor controlled reactor for PQ improvement”, International Conference “ICPSACO-2015”, Dec.10-11, 2015.
5. **M. Sudhakaran**, P.Ajay-D-Vimal Raj, R.Priadarsini, G. Vijay Anand, “Application of Hybrid EP-PSO Algorithm for the solution of Combined Economic and Emission Dispatch Problems”, IEEE Sponsored International Conference (ICACCCT-2016).
6. G. Hemalatha, **M. Sudhakaran**, P.Ajay-D-Vimal Raj, “Bridgeless Sepic Converter for Power Factor Improvement”, International Conference “ICCPEAT-2017”, Pondicherry Engineering College, Feb.23-24, 2017.
7. Vikneshwaran L, **Sudhakaran M**, “Solar PV fed Water Pumping System through BLDC Drive Employing Zeta Converter”, IEEE Sponsored 5th International Conference on Science, Technology Engineering & Mathematics, Jeppiar Engineering College, March 14-15, 2019.
8. Karthick B, **Sudhakaran M**, Ajay-D-Vimal Raj P, “Literature Review on Network Reconfiguration and Optimum placement of D-STATCOM in Radial distribution Systems”, International Conference on Smart Energy Systems and Electric Vehicles, V R Siddhartha Engineering College, Vijayawada. AP, India, Jan 08-10, 2020.