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1. **P. Aruna Jeyanthi** and Dr. D. Devaraj, “Optimal Reactive Power Dispatch for Voltage Stability Enhancement Using Real Coded Genetic Algorithm”, International Journal of Computer and Electrical Engineering, Vol. 2, No. 4, 2010, pp. 1793-8163.
2. **P. Aruna Jeyanthi** and Dr. D. Devaraj, “Multi-objective Genetic Algorithm For Reactive Power Optimization including Voltage Stability”, International Journal of Engineering Science and Technology, Vol. 2, No,7, 2010, pp. 2715-2729.
3. **P. Aruna Jeyanthi**, D Devaraj, “Hybrid Particle Swarm Optimization for Multi-objective Reactive Power Optimization with Voltage Stability Enhancement”, ACEEE International Journal on Electrical and Power Engineering, Vol. 1, No. 2, 2010, pp. 16-21.
4. S. Raja Mohamed, **P Aruna Jeyanthi**, D Devaraj, “[Hysteresis-based Voltage and Current Control Techniques for Grid Connected Solar Photovoltaic Systems: Comparative Study](#)“, International Journal of Electrical and Computer Engineering, Vol. 8, No. 5, 2018, pp. 2671.
5. S. Raja Mohamed, **P Aruna Jeyanthi**, D Devaraj, MH Shwehdi, Adel Aldalbahi, “DC-Link Voltage Control of a Grid-Connected Solar Photovoltaic System for Fault Ride-Through Capability Enhancement”, Applied Sciences, Vol. 9, No. 5, 2019, pp. 952.
6. S.N. Rekha, **P Aruna Jeyanthi**, D Devaraj, “[Relevance vector machine based fault classification in wind energy conversion system](#)“, International Journal of Electrical & Computer Engineering, vol. 9, No. 3, 2019, pp. 1506-1513.

International Conferences

1. **P. Aruna Jeyanthi**, D. Devaraj, “Hybrid particle swarm optimization for multi-objective reactive power optimization with voltage stability, Proceedings of the International Conference on Control, Communication and Power Engineering 2010. ACEEE, pp. 18-23.

2. G. Aravind Kumar, **P. Aruna Jeyanthi**, D Devaraj, "[Grid voltage stability analysis of Wind Energy Conversion System based PMSG by using Matlab/Simulink](#)", Proceedings of the International Conference on Control, Instrumentation, Communication and Computational Technologies (ICCICCT), 18 December 2015, pp. 650-654.
3. S. Rajamohamed, D. Devaraj, P. Aruna Jeyanthi, "[Modeling and simulating for transient stability analysis of an 380 KV inter-tie network](#)", Proceedings of the International Conference on Control, Instrumentation, Communication and Computational Technologies (ICCICCT), 18 December 2015, pp. 655-658.
4. [S.M. Sulaiman](#), [P. Aruna Jeyanthi](#) and [D. Devaraj](#), "Artificial neural network based day ahead load forecasting using Smart Meter data", Proceedings of the conference on [Biennial International Conference on Power and Energy Systems: Towards Sustainable Energy \(PESTSE\)](#), 21-23 January 2016, pp. 1-6, Bangalore, India.
5. S.M. Sulaiman, **P Aruna Jeyanthi**, D. Devaraj, "Big data analytics of smart meter data using Adaptive Neuro Fuzzy Inference System (ANFIS)", Proceedings of the International Conference on Emerging Technological Trends (ICETT), 21 October 2016, pp. 1-5.
7. S. Raja Mohamed, [P. Aruna Jeyanthi](#) and [D. Devaraj](#), "Investigation on the impact of high-penetration of PV generation on transient stability", Proceedings of the **IEEE International Conference on Intelligent Techniques in Control, Optimization and Signal Processing (INCOS)**, 23 March 2017, pp. 1-6, **Sriviliputhur, India**.
8. T. Balachander, **P. Aruna Jeyanthi**, D. Devaraj. "Short term hydro thermal scheduling using flower pollination algorithm", Proceedings of the IEEE International Conference on Intelligent Techniques in Control, Optimization and Signal Processing (INCOS), 23 March 2017, pp. 1-5.
9. K.M. Sreedivya, **P. Aruna Jeyanthi**, D. Devaraj, "Fuzzy logic based power system stabilizer for damping low frequency oscillations in power system", Proceedings of the International Conference on Innovations in Electrical, Electronics, Instrumentation and Media Technology (ICEEIMT), 3 February 2017, pp. 201-205.
10. S.N. Rekha, **P Aruna Jeyanthi**, D. Devaraj, "[Wavelet transform based open circuit fault diagnosis in the converter used in wind energy systems](#)", Proceedings of the IEEE International Conference on Intelligent Techniques in Control, Optimization and Signal Processing (INCOS), 23 March 2017, pp. 1-4.

11. J. Evangeline, Jesly Cynthia, **P. Aruna Jeyanthi**, J.D. Darwin, S. Devika, “[Power coefficient in wind power using particle swarm optimization](#)”, Proceedings of the International Conference on Control, Instrumentation, Communication and Computational Technologies (ICCICCT), 10 July, 2017, pp. 71-75.
12. S. Raja.Mohamed, **P. Aruna Jeyanthi**, D .Devaraj, “[Novel control of grid-tied solar PV for enhancing transient stability limit at zero and high penetration levels](#)”, Proceedings of the International Conference on Intelligent Computing, Instrumentation and Control Technologies (ICICT), 6 July 2017, pp. 132-137.
13. S. Raja Mohamed, **P. Aruna Jeyanthi**, D. Devaraj, “[Study on the impact of under voltage ride through characteristics of larger PV penetrations on the system transient stability](#)”, Proceedings of the 4th International Conference on Advanced Computing and Communication Systems (ICACCS), 6 January 2017, pp. 1-6.
14. Gee varghese Mathew Kurian, **P. Aruna Jeyanthi**, D .Devaraj, P.G .Anilkumar, “[RTC Based Solar Power Multi-Level Inverter](#)”, Proceedings of the IEEE International Conference on Advances in Computing, Communications and Informatics (ICACCI), 19 September 2018, pp. 1875-1880.

National Conferences

1. **Aruna Jeyanthi**, **P.** and D. Devaraj, “Application of Particle Swarm Optimization methods to multi-objective reactive power dispatch problem in electric power systems”, Proceedings of National Conference on Intelligent Techniques in Control, Optimiza, 2010.