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**Area of Specialization: Renewable Power Generation: Wind and Solar,  
Transmission Line Protection and AC and DC Machines**

### **Publications:**

#### **List of Journal Publications:**

1. J Ganesh Moorthy, Sumit Manual, S Moorthi and P. Raja, "Performance analysis of solar PV based DC optimizer distributed system with simplified MPPT method", Springer Journal on SN Applied Sciences, | <https://doi.org/10.1007/s42452-020-2010-2>, available on-line, January 2020.
2. Suryanarayana G, Raja P , Selvan M P and Venkata Kirthiga Murali., "An Effective Algorithm for Fault Discrimination and Estimation of Fault Location in Transmission Lines", IET Generation, Transmission and Distribution, 10.1049/iet-gtd.2018.5815, available on-line, May 2019.
3. Vijayapriya, R, Raja, P. and Selvan, M.P., "Systematised Active Power Control of PMSG-based Wind-driven Generators", IEEE Systems Journal, Vol. 14, No.1 , March 2020, pp. 708 – 717.
4. G. Suryanarayana, G. Kesava Rao, S. Sarangi and Raja, P., "Directional relaying using parameter estimation approach", Electrical Power and Energy Systems, an International Journal, Elsevier, Vol. 107, December 2018, pp. 597-604.
5. Vijayapriya, R, Raja, P. and Selvan, M.P., "A Modified Active Power Control Scheme for Enhanced Operation of PMSG based WGs", IEEE Transactions on Sustainable Energy, Vol. 9, No.2 , April 2018, pp. 630 – 638.
6. Vijayapriya, R., Raja, P. and Selvan, M.P., "Enhanced Method of Rotor Speed and Position Estimation of Permanent Magnet Synchronous Machine based on stator SRF-PLL", Engineering Science and Technology, an International Journal, Elsevier, Vol. 20, 2017, pp. 1450-1459.
7. Jithin K.K, S. Venkata Hareesh, P. Raja and M.P. Selvan "Design and Implementation of an Algorithm for Diagnosis of Load Encroachment in EHV Lines", Energy Procedia, Elsevier, 117(2017), 519-526.

8. K. Sujita Kumar Achary and P. Raja “Adaptive design of Distance relay for series compensated transmission line” Energy Procedia, Elsevier, 117(2017), 527-534
9. Venkatraman, K., Moorthi, S., Selvan, M.P., Raja, P. and Deepa Kurup, “Predictive current control of DSTATCOM for VAR compensation of grid connected wind farms”, Journal of Renewable and Sustainable Energy 9, 023301 (2017); doi: <http://dx.doi.org/10.1063/1.4977541>.
10. Venkatraman, K., Moorthi, S., Selvan, M.P. and Raja, P., “A Comprehensive Embedded Solution for Data Acquisition and Communication using FPGA”, Journal of Applied Research and Technology, Elsevier, 2016 In Press, SCImago Indexed ISSN: 1665-6423.
11. Venkatraman, K., Moorthi, S., Selvan, M.P., Raja, P. and Deepa Kurup, “Performance Evaluation of FPGA-Controlled DSTATCOM for Load Compensation”, Arabian Journal of Science and Engineering, Vol. 41, No. 9, September 2016, pp.3355- 3367, SCI Indexed ISSN: 2191-4281.

### **List of International Conferences**

1. Navya V, Sujana Ramesh, Vijaya Priya R and Raja. P, “Optimization of wind farm layout based on wake effect modelling”, IEEE International Students' Conference on Electrical, Electronics and Computer Sciences, Bhopal, February 2020.
2. Ganesh Moorthy. J, Mahima. M and Raja. P, “Parallel operation of a grid-connected Microinverters with pulsated power decoupling capability”, 35th National Convention of Electrical Engineers & National Conference on Storing Energy for a Sustainable Future-Future Energy in any Isolated World, Chennai , India, 2019
3. K. Marimuthu, S.Vynatheya, N.Vasudev and P.Raja, “Quality Analysis of Ceramic Insulators Under Electro Thermal Stresses” IEEE International Conference on High Voltage Engineering & Technology (ICHVET-2019), Hyderabad, 2019.
4. K.Marimuthu, S.Vynatheya, N.Vasudev and P.Raja, “Quality Analysis of Ceramic Insulators Under Steep Front Impulse Voltage” 20th National Power System Conference (NPSC-2018), Tiruchirappalli, India, 2018.
5. Harish S, Sarath Sankar.S, Vasishta Burugula, Ganesh Moorthy J, P. Raja, “Design and Performance enhancement of small scale Solar PV fed PMDC motor based water pumping system using PI Controlled FOCV method”, 2017 IEEE International Conference on Technological Advancements in Power and Energy, Kerala, 2017.
6. R. Vijaya Priya, S. K. Reddy, M. P. Selvan and P. Raja, "Parallel operation of permanent magnet synchronous generator based windmills connected to HVDC-VSC link," 2016 National Power Systems Conference (NPSC), Bhubaneswar, India, 2016.
7. S. Venkata Hareesh, P. Raja and M. P. Selvan, "Design and implementation of a robust fault detection mechanism for EHV lines," 2016 IEEE 1st International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES), Delhi, India, 2016.
8. C. Priyanka, R. VijayaPriya and P. Raja, "Modelling of wind farm layout based on analytical distance variant method," 2016 IEEE 1st International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES), Delhi, India, 2016.

9. A. Anantharaman, D. K. Singh and P. Raja, "Voltage stability study on radial distribution system incorporating Induction Motor loads," 2016 IEEE 1st International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES), Delhi, India, 2016.
10. K. S. Achary, S. Behera and P. Raja, "Modelling and simulation of impact of SVC on distance protection of EHV transmission line," 2016 IEEE 1st International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES), Delhi, India, 2016.
11. S. Dhinesh Kumar, Raja P and Moorthi S "Self-adaptive differential relaying for power transformers using FPGA", Proceedings of the IEEE Conference (CATCON 2015), 10-12 December 2015, Bangaluru
12. S. Venkata Hareesh, Raja P and Selvan M P "An Effective Implementation of Phasor Measurement Unit (PMU) by using Non-Recursive DFT Algorithm", Proceedings of the IEEE Conference (CATCON 2015), 10-12 December 2015, Bangaluru.
13. Sabyasachi Behera, Raja P and Moorthi S "Modelling and simulation of the impact of SVC on existing distance relay for transmission line protection", Proceedings of the IEEE Conference (CATCON 2015), 10-12 December 2015, Bangaluru.
14. Adil Abdul Hameed, Ankush Gupta, AS Kiranraj and Ashwini Devendran G, Raja P, "Modeling and implementation of impedance based fault locator for medium transmission line", Proceedings of the IEEE Conference (CATCON 2015), 10-12 December 2015, Bangaluru.