Publications:

List of Journal Publications:

1. 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.

2. 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.

3. 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.

4. K. Sujita Kumar Achary and **P. Raja** "Adaptive design of Distance relay for series compensated transmission line" Energy Procedia, Elsevier, 117(2017), 527-534

5. 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.

6. 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.

7. 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.

8. **P. Raja**, N. Kumaresan and M. Subbiah (2014) "An Improved Delta-Star Switching Scheme for Reactive Power Saving in Three-Phase Induction Motors" Frontiers in Energy, DOI 10.1007/s11708-014-4-8.

9. **P. Raja,** M. P. Selvan and N. Kumaresan (2013) Enhancement of Voltage Stability margin in Radial Distribution System with Squirrel Cage Induction Generator based DGs. IET Generation, Transmission and Distribution, 7(8), 898-906.

10. **P. Raja**, N. Kumaresan and M. Subbiah, "A Closed Loop System for Inverter Assisted Wind Driven Induction Generators for Supplying Isolated Loads" International Review of Automatic Control (Theory and Applications), Vol.5, No.4, July 2012, pp. 490-497.

11. **P. Raja**, N. Kumaresan and M. Subbiah, "Grid-connected Induction Generators using Delta-Star Switching of the Stator Winding with a Permanently Connected Capacitor", International journal of Wind Engineering, Vol.36 , No.2, 2012, pp.219-232.

12. R. Karthigaivel, N. Kumaresan, **P. Raja** and M. Subbiah, "A novel unified approach for the analysis and design of Wind-driven SEIGs using nested GAs", International journal of Wind Engineering, Vol.33 , No.6, 2009, pp.631-647.

List of International Conferences

1. 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.*

2. 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.

3. 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.

4. 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.

5. 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.

6. 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.

7. 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

8. 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.

9. 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.

10. 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.

11. [A. S. Ramya](#), [N. Periyasamy](#), [A. Vidhya](#), [S. Sundrapandian](#) Raja P, "Design and development of a GUI for an optimal hybrid energy system", *Proceedings of the Power Systems Conference (NPSC),* 2014.

12. Shashank Kumar De, Raja P, " 'A Study on Relay Coordination in a Distribution System with Distributed Generation and Hybrid SFCL", *Proceedings of the IEEE Conference (AFRICON 2013),* 9-12 September 2013, Mauritius.

13. Sreeram M and Raja P, "Implementation of DSP Based Numerical Three-Step Distance Protection Scheme for Transmission Lines", *Proceedings of the IEEE India*

Conference (INDICON 2013), 1315 December 2013, Mumbai, India.

14. Ashwini Devendran G, Jaikumar M and Raja P, " A Simple Methodology for the Steady State Analysis of Doubly Fed Induction Generator", *Proceedings of the IEEE India Conference (INDICON 2012),* 7-9 December 2012, Kerala, India.

15. S.Ranjith Kumar, P.Raja and M.P.Selvan , "Virtual Laboratory Environment using MATLAB- GUI for Teaching of Induction Generators", *Proceedings of the IEEE India Conference (INDICON 2012),* 7-9 December 2012, Kerala, India

16. Sree Ramya and Raja P, "Estimation and Performance Evaluation of an Induction Machine using Optimization Techniques", *Proceedings of the IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES 2012),* 16th - 19th December 2012, Bangaluru, India.

17. Surendhar, S. , S.Ranjith Kumar and **Raja, P.** "Assessment and Comparison of Different Neutral Current Compensation Techniques in Three-Phase four-wire Distribution System", *3rd IEEE International Symposium on Power Electronics for Distributed Generation Systems (PEDG), 2012,* 25-28 June 2012, Aalborg, Denmark.

18. S.Senthil Kumar, Ganesh Dharmireddy, **P.Raja** and S.Moorthi, "A Voltage Controller in PhotoVoltaic System without Battery Storage for Stand-Alone Applications", *Proceedings of the IEEE International Conference on Electrical, Control and Computer Engineering*, June 21-22, 2011, Pahang, Malaysia.

19. S.Ranjith Kumar, S.Surendhar, Ashish Negi and **P.Raja**, " Zig Zag Transformer performance analysis on harmonic reduction in distribution load", Proceedings of the *IEEE International Conference on Electrical, Control and Computer Engineering,* June 21-22, 2011, Pahang, Malaysia.

20. Arka Bhattacharya, **P.Raja** and A.Pavan Kumar "Modeling and Simulation of a Controlled DC-AC Converter System Using Sliding Mode Controller Mechanism", *3rd IEEE International Conference on Process Automation, Control and Computing (PACC 2011),* 20-22 July 2011, Coimbatore, India.

21. J Divya, Y Prathyusha, M Uma Maheshwari and **Raja P** "Modeling and Simulation of BLDC Motor Control" *International conference on Mathematical Modeling and Applications to Industrial Problems* at NIT Calicut during 28th - 31st March 2011.