

Papers Published

JOURNAL PUBLICATIONS

INTERNATIONAL

1. Hanumantha Rao, B., Arun, S.L. and **Selvan, M.P.** "Framework of Locality Electricity Trading System for Profitable Peer-to-Peer Power Transaction in Locality Electricity Market", IET Smart Grid, 2020, Accepted for publication, Scopus Indexed ISSN : 2515-2947
2. Vijayapriya, R., Raja, P. and **Selvan, M.P.**, "Systematized Active Power Control of PMSG-Based Wind-Driven Generators", IEEE Systems Journal, 2019, Available Online . **SCIE Indexed ISSN: 1932-8184**
3. Shashank Singh, Aryesh Namboodiri and **Selvan, M.P.** "Agent-based System to Control the Air-Conditioner and EV Charging for Residents in Smart Cities", IET Smart Cities, **Special Issue on Smart Energy for Smart Cities**, Vol. 1, No. 2, 2019, pp. 71-80. **ISSN 2631-7680**
4. Hanumantha Rao, B., Arun, S.L. and **Selvan, M.P.** "An Electric Power Trading Framework for Smart Residential Community in Smart Cities", IET Smart Cities, **Special Issue on Smart Energy for Smart Cities**, Vol. 1, No. 2, 2019, pp. 40-51. **ISSN 2631-7680**
5. Dheepanchakkravarthy, A., Jawahar, M.R., Venkatraman, K., **Selvan, M.P.** and Moorthi, S., "Performance Evaluation of FPGA based Predictive Current Controller for Four-leg DSTATCOM in Electric Distribution Systems" **IET Generation, Transmission and Distribution**, Accepted for Publication, 2019. **SCIE Indexed ISSN: 1751-8687**
6. Sekhar Nindra, Lakshmana Rao Paila, Kumaresan, N. and **Selvan, M.P.** "Experimental Investigation on a New Hybrid System Employing Wind-Driven DFIG and Solar PV Panels", **Journal of The Institution of Engineers (India): Series B, Springer, 2019**, Available Online, Scopus Indexed ISSN: 2250-2106
7. Suryanarayana Gangolu, Raja, P., **Selvan, M.P.** and Venkata Kirthiga M., "Effective algorithm for fault discrimination and estimation of fault location in transmission lines", **IET Generation, Transmission and Distribution**, 2019, Accepted for Publication. SCIE Indexed ISSN: 1751-8687
8. Shashank Singh, Amit Roy and **Selvan, M.P.**, "Smart Load Node for Non-Smart Load under Smart Grid Paradigm", **IEEE Consumer Electronics Magazine**, Vol. 8, No. 2 March 2019, pp. 22-27, SCIE Indexed ISSN: 2162-2248
9. Dheepanchakkravarthy, A., **Selvan, M.P.** and Moorthi, S. "Alleviation of Power Quality Issues Caused by Electric Arc Furnace Load in Power Distribution System using 3-Phase Four-Leg DSTATCOM", Journal of The Institution of Engineers (India): Series B, Springer, Vol. 100, No. 1, February 2019, pp. 9-22. **Scopus Indexed ISSN: 2250-2106**
10. Nikhil, K. A., Bharath Chandra, P., Jawahar, M.R., Moorthi, S., **Selvan, M.P.** and Kumaresan, N. "FPGA-based Closed Loop Monitoring and Control of Doubly Fed Induction Generator with Single Inverter and Battery for Wind Energy Conversion", **Australian Journal of Electrical and Electronics Engineering**, December 2018 (Online), **Scopus Indexed ISSN: 2205-362X**
11. Arun, S.L. and **Selvan, M.P.**, "Smart Residential Energy Management System for Demand Response in Buildings with Energy Storage Devices", **Frontiers in Energy** June 2018 (Online). **Scopus Indexed ISSN: 2095-1701**
12. Dheepanchakkravarthy, A., Akhil, S., Venkatraman, K., **Selvan, M.P.** and Moorthi, S. "Performance Analysis of FPGA Controlled Four-leg DSTATCOM for Multifarious Load

Compensation in Electric Distribution System", Engineering Science and Technology, an International Journal, Elsevier, Vol. 21, No. 4, 2018, pp. 692 – 703. **Scopus Indexed ISSN: 2215-0986**

13. Arun, S.L. and **Selvan, M.P.**, "Intelligent Residential Energy Management System for Dynamic Demand Response in Smart Buildings", IEEE Systems Journal, Vol. 12, No. 2, 2018, pp. 1329-1340. **SCIE Indexed ISSN: 1932-8184**
14. Vijayapriya, P, 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, 2018, pp. 630-638. **SCIE Indexed ISSN: 1949-3029**
15. Dheepanchakkravarthy, A., Venkatraman, K., **Selvan, M.P.**, Moorthi, S. and Venkatakirthiga, M., "Capability Evaluation of Four-leg DSTATCOM for Compensating Multifarious Loads", Australian Journal of Electrical and Electronics Engineering, December 2017 (Online), **Scopus Indexed ISSN: 1448-837X**
16. 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, No. 5, October 2017, pp. 1450 – 1459. **Scopus indexed ISSN: 2215-0986**
17. Arun, S.L. and **Selvan, M.P.**, "Dynamic Demand Response in Smart Buildings using an Intelligent Residential Load Management System", IET Generation, Transmission and Distribution, Vol. 11, No. 17, 2017, pp. 4348-4357. **SCIE Indexed ISSN: 1751-8687**
18. Venkatraman, K., **Selvan, M.P.**, Moorthi, S., Raja, P. and Deepa Kurup, "Predictive Current Control of DSTATCOM for VAR Compensation of Grid Connected Wind Farms", Journal of Renewable and Sustainable Energy, March 2017, **SCIE Indexed, ISSN: 1941-7012**
19. 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, Vol. 15, No. 1, February 2017, pp.45-53, **SCImago Indexed ISSN: 1665-6423**
20. Venkatraman, K., Moorthi, S. and **Selvan, M.P.**, "Modelling and Control of Transformer-less Universal Power Quality Conditioner (TUnPQC): An Effective Solution for Power Quality Enhancement in Distribution System", **Journal of Control, Automation and Electrical Systems, Springer**, Vol. 28, No. 1, February 2017, pp.123-134, **SCImago Indexed ISSN: 2195-3899**
21. Venkatraman, K., Dastagiri Reddy, B., **Selvan, M.P.**, Moorthi, S., Kumaresan, N. and Ammasaigounden, N., "Online Condition Monitoring and Power Management System for Standalone Micro-grid using FPGAs", IET Generation, Transmission and Distribution, Vol.10, No. 15, November 2016, pp. 3875-3884, **SCIE Indexed ISSN: 1751-8687**
22. Venkatraman, K., **Selvan, M.P.** and Moorthi, S., "Predictive Current Control of Distribution Static Compensator for Load Compensation in Distribution System", IET Generation, Transmission and Distribution, Vol.10, No. 10, October 2016, pp. 2410-2423, **SCIE Indexed ISSN: 1751-8687**
23. 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, **SCIE Indexed ISSN: 2193-567X**
24. Dastagiri Reddy, B., **Selvan, M.P.** and Moorthi, S., "Design, Operation and Control of S3 Inverter for Single-Phase Micro-Grid Applications", IEEE Transactions on Industrial Electronics, Vol. 62, No. 9, September 2015, pp.5569-5577, **SCI Indexed ISSN: 0278-0046**
25. Dastagiri Reddy, B., Anish, N.K., **Selvan, M.P.** and Moorthi, S., "Embedded Control of n-Level DC-DC-AC Inverter", IEEE Transactions on Power Electronics, Vol.30, No. 7, July 2015, pp. 3703-3711, **SCI Indexed ISSN: 0885-8993**
26. Sandhyarani, M., Ashfaq, M., Arunnellaiappan, T., **Selvan, M.P.**, Subramanian, S. and

- Rameshbabu, N., "Effect of Electrical Parameters on Morphology and In-vitro Corrosion Resistance of Plasma Electrolytic Oxidized Films Formed on Zirconium", *Surface & Coatings Technology*, Vol. 269, May 2015, pp. 286-294, **SCI Indexed ISSN: 0257-8972**
27. Sreejith, S., Sishaj P. Simon and **Selvan, M.P.**, "Analysis of FACTS Devices on Security Constrained Unit Commitment Problem", *International Journal of Electrical Power and Energy Systems*, Vol. 66, January 2015, pp. 280-293, **Scopus Indexed ISSN: 0142-0615**
 28. Dastagiri Reddy, B. **Selvan, M.P.** and Moorthi, S., "Simplified Embedded Control Scheme for Two-Stage Multistring Off-Grid Inverter", *IET Power Electronics*, Vol.7, No. 12, December 2014, pp. 2954-2963, **SCIE Indexed ISSN: 1755-4535**
 29. Vinothkumar, K. and **Selvan, M.P.**, "Hierarchical Agglomerative Clustering Algorithm Method for Distributed Generation Planning", *International Journal of Electrical Power and Energy Systems*, Vol. 56, March 2014, pp. 259-269, **Scopus Indexed ISSN: 0142-0615**
 30. Srinath, S., Chandan Kumar and **Selvan, M.P.**, "A Simple Digital Control Algorithm for Three Phase Shunt Active Filter: Simulation and Experimentation", *Frontiers in Energy Online Issue December, 2013*, DOI 10.1007/s11708-013-0288-0, **Scopus Indexed ISSN: 2095-1701**
 31. Raja, P, **Selvan M. P.** and Kumaresan N., "Enhancement of voltage stability margin in Radial Distribution system with Squirrel Cage Induction Generator based DGs", *IET Generation, Transmission and Distribution*, Vol. 7, No. 8, August 2013, pp. 898 – 906, **SCIE Indexed ISSN: 1751-8687**
 32. Srinath, S. and **Selvan, M.P.**, "Performance Analysis of UPQC with Heterogeneous Control during Load Power Factor Variation", *European Transactions on Electrical Power*, Vol. 22, October 2012, pp. 937-960. **Scopus Indexed ISSN: 1546-3109, New: International Transactions of Electrical Energy Systems, SCIE Indexed**
 33. Srinath, S. and **Selvan, M.P.**, "UPS Mode Operation of UPQC with Mixed Mode Control", *International Review of Automatic Control*, Vol. 5, No. 3, May 2012, pp. 342-348. **Scopus Indexed ISSN: 1974-6059**
 34. Sreejith, S., Sishaj P. Simon and **Selvan, M.P.**, "Performance Comparison of FACTS Devices for Steady State Power Flow Control", *International Review of Modelling and Simulations*, Vol. 5, No. 2, April 2012, pp. 576-588, **Scopus indexed ISSN: 1974-9821**
 35. Sreejith, S., Sishaj P. Simon and **Selvan, M.P.**, "Optimal Location of Interline Power Flow Controller in a Power System Network using DE Algorithm", *International Review of Modelling and Simulations*, Vol. 5, No. 2, April 2012, pp. 690-701, **Scopus indexed ISSN: 1974-9821**
 36. Vinoth Kumar, K. and **Selvan, M.P.**, "Distributed Generation Planning- A New Approach based on Goal Programming", *Electric Power Components and Systems*, Vol. 40, No. 5, March 2012, pp. 497-512. **SCIE Indexed ISSN: 1532-5008**
 37. Srinath, S. and **Selvan, M.P.**, "A Combined Mode of Control for UPQC Connected to a Low Voltage Distribution System", *Australian Journal of Electrical and Electronics Engineering*, Vol. 8, No. 3, 2011, **Scopus Indexed ISSN 1448-837X**
 38. Srinath, S. and **Selvan, M.P.**, "Effect of Reference Generation Schemes on the Performance of Shunt Active Filter : A Comparison", *Advances in Electrical Engineering and Electrical Machines*, Springer Lecture Notes in Electrical Engineering Vol. 134, 2011, pp.253-259, **Scopus Indexed ISSN: 1876-1100**
 39. Vinoth Kumar, K. and **Selvan, M.P.**, "Novel Coordinated Converter Control (3C) Strategy for Enhancement of Fault Ride Through Capability of DFIG Based Wind Farms", *Electric Power Components and Systems*, Vol. 39, No. 14, October 2011, pp. 1493-1506, **SCIE Indexed ISSN: 1532-5008**
 40. Vinoth Kumar, K. and **Selvan, M.P.**, "Capacity Evaluation and Identification of Grid Integration Points of Distributed Generation in Distribution System", *Australian Journal of Electrical and Electronics Engineering*, Vol. 8, No. 2, 2011, pp. 137-153, **Scopus Indexed**

ISSN: 1448-837X

41. Vinoth Kumar, K. and **Selvan, M.P.**, "Fuzzy Embedded Genetic Algorithm Method for Distributed Generation Planning", Electric Power Components and Systems, Vol. 39, No. 4, February 2011, pp. 346-366, **SCIE Indexed ISSN: 1532-5008**
42. Vinoth Kumar, K. and **Selvan, M.P.**, "Novel Scheme for Enhancement of Fault Ride Through Capability of Doubly Fed Induction Generator based Wind Farms", Energy Conversion and Management, Vol. 52, No.1, January 2011, pp. 2651-2658, **SCIE Indexed ISSN: 0196-8904**
43. Vinoth Kumar, K. and **Selvan, M.P.**, "Grid Integration of Distributed Generation- Consequences on Node Voltage under Grid Perturbations" Wind Engineering, Vol. 34, No. 6, December 2010, pp. 629-650, **Scopus Indexed ISSN: 0309-524X**
44. Vinoth Kumar, K. and **Selvan, M.P.**, "Control Scheme for Mitigation of Output Power Fluctuations in Grid Connected Wound Rotor Induction Generator", Wind Engineering, Vol. 34, No. 5, October 2010, pp. 579-594, **Scopus Indexed ISSN: 0309-524X**
45. Vinoth Kumar, K. and **Selvan, M.P.**, "Enhanced Fault Ride-through Scheme for Mitigating Rotor Speed Instability of Doubly Fed Induction Generator Based Wind Farms", Wind Engineering, Vol. 34, No. 4, August 2010, pp. 445-460, **Scopus Indexed ISSN: 0309-524X**
46. **Selvan, M.P.**, "Object Oriented Optimal Power Flow-A New Approach Based on Design Patterns", Electric Power Components and Systems, Vol. 38, No. 2, January 2010, pp. 197-211, **SCIE Indexed ISSN: 1532-500**
47. Vinoth Kumar, K. and **Selvan, M.P.**, "A simplified approach for load flow analysis of radial distribution network", International Journal of Electrical, Computer, Energetic, Electronic and Communication Engineering, Vol:2, No:3, 2008, pp. 439-450.
48. **Selvan, M.P.** and Swarup, K.S., "Modelling and analysis of unbalanced distribution system using object-oriented methodology", Electric Power Systems Research, Vol. 76, No. 11, July 2006, pp. 968-979, **SCIE Indexed ISSN: 0378-7796**
49. **Selvan M.P.** and Swarup, K.S., "Development of power flow software using design patterns", IEEE Transactions on Power Systems, Vol. 21, No. 2, May 2006, pp. 611-618, **SCI Indexed ISSN: 0885-8950**
50. **Selvan M.P.** and Swarup, K.S., "Dynamic topology processing in a radial distribution system", IEE **Proceedings Part C, Generation, Transmission and Distribution**, Vol. 153, No. 2, March 2006, pp. 155-163, **Scopus Indexed ISSN: 1350-2360 (now title has changed to IET GTD, SCIE Indexed)**
51. **Selvan, M.P.** and Swarup, K.S., "Object modelling of balanced and unbalanced distribution systems for power flow analysis", Electric Power Components and Systems, Vol. 34, No. 2, February 2006, pp. 191-215, **SCIE Indexed ISSN: 1532-5008**
52. **Selvan, M.P.** and Swarup, K.S. "Object Methodology-Method and Design for Topological Processing" IEEE Power & Energy Magazine, Vol. 3, No. 1, January-February 2005, pp. 18-29. **SCIE Indexed ISSN: 1540-7977**
53. Kumaresan, N., **Selvan, M.P.** and Subbiah, M., "Design Optimisation and Speed Extension of Wind Driven Self-Excited Induction Generators- A New Approach", Electric Power Components and Systems, Vol. 32, No. 2, February 2004, pp. 215-228, **SCIE Indexed ISSN: 1532-5008**

NATIONAL

1. Ajit Kumar, K. and **Selvan, M.P.** , "Impact of Solar PV Penetration on Grid", **Electrical India**, Vol. 57, No. 10, October 2017, pp. 30-36.
2. Venkata Hareesh, S., Raja, P. and **Selvan, M.P.**, "Need and Challenges of Smarter Power Systems", **Electrical India**, Vol. 56, No. 1, January 2016, pp. 82-84.
3. Asha Radhakrishnan and **Selvan, M.P.**, " A Load Scheduling for Smart Energy Management in Buildings with Renewable Power Generations", **Electrical India**, Vol. 55, No. 5, May 2015,

pp. 76 – 90.

4. Vinoth Kumar, K. and **Selvan, M.P.** "Effect of Distributed Generator Model on Placement of Multiple DGs in Radial Distribution System", **Electrical India**, Vol. 50, No. 8, August 2010, pp. 130 – 136.
5. **Selvan, M.P.** and Swarup, K.S. "Object-Oriented Power System Analysis", **Journal of Indian Institute of Science**, Vol. 84, No.5, September – October 2004, pp. 141-154.

CONFERENCE PUBLICATIONS

INTERNATIONAL

1. Shashank Singh, Sudharsan Thirumalai and **Selvan, M.P.**, "Realization of Self-Demand Response Through Non-Intrusive Load Monitoring Algorithm", IEEE International Conference on Electronics, Computing and Communication Technologies IEEE CONECCT -2019, 26-27 July 2019, IIIT Bangalore, India, pp. 1-6.
2. Shashank Singh, Aryesh Namboodiri and **Selvan, M.P.**, "Simplified Algorithm for Dynamic Demand Response in Smart Homes Under Smart Grid Environment", IEEE PES GTD Grand International Conference and Exposition Asia GTD Asia-2019, 19-23 March 2019, Bangkok, Thailand, pp. 259-264.
3. Shashank Singh and **Selvan, M.P.**, "A Smart Energy Meter Enabling Self-Demand Response of Consumers in Smart Cities of Tamil Nadu", IEEE International Conference on Smart Cities Model ICSCM-2019, 20-21 January 2019, IIT Madras, Chennai, India, pp. 1-6.
4. Dinesh, P., Kumar Teja, K., Shashank Singh, **Selvan, M.P.** and Moorthi, S. "FPGA Based SoC Estimator and Constant Current Charging/Discharging Controller for Lead-Acid Battery", **IEEE International Conference INDICON-2018**, 16-18 December 2018, Amrita Vishwa Vidyapeetham, Coimbatore, India, pp. 1-6.
5. Akshay Anantharaman, Sarang Sharan, Naveen K and **Selvan, M.P.**, "Hydro-Thermal-Wind Coordination for Short Term Unit Commitment using Lambda-Gamma Iteration and Particle Swarm Optimization", **IEEE International Conference INDICON-2017**, 15-17 December 2017, IIT Roorkee, India, pp. 1-6.
6. Ajit Kumar, K., **Selvan, M.P.** and Rajapandiyar, K., "Grid Stability Analysis for High Penetration Solar Photovoltaics", International Conference on Large-Scale Grid Integration of Renewable Energy in India, 6-8 September 2017, New Delhi, India., pp. 1-8.
7. Shashank Singh, Arun, S.L. and **Selvan, M.P.**, "Regression Based Approach for Measurement of Current in Single-Phase Smart Energy Meter", IEEE Region 10 Symposium (TENSYP-2017), 14-16 July 2017, Cochin, Kerala, India, pp. 1-5.
8. Arun, S.L., Aravind Raj, A. and **Selvan, M.P.**, "Demand Response in Smart Buildings Through Time-Varying Priority of Household Appliances", IEEE Region 10 Symposium (TENSYP-2017), 14-16 July 2017, Cochin, Kerala, India, pp. 1-5.
9. Jawahar, M.R., Ajay Kumar, V., Moorthi, S. and **Selvan, M.P.**, "FPGA based SHEPWM Switching Scheme for Single Phase Cascaded H-Bridge Multi-Level Inverter", IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES-2016), 4-6 July 2016, Delhi Technological University, Delhi INDIA, pp.3257-3261.
10. Venkata Hareesh, S., Raja, P. and **Selvan, M.P.**, "Design and Implementation of a Robust Fault Detection Mechanism for EHV Lines", IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES-2016), 4-6 July 2016, Delhi Technological University, Delhi INDIA, pp.914-919.
11. Venkata Hareesh, S., Raja, P. and **Selvan, M.P.**, "An effective implementation of Phasor Measurement Unit (PMU) by using non-recursive DFT Algorithm", IEEE International Conference on Condition Assessment Techniques in Electrical Systems (CATCON-2015), 10-12 December 2015, CPRI Bangalore, INDIA, pp.195-199.

12. Soumya, N. K. and **Selvan, M.P.**, "State Estimation of Observable and Unobservable Power Systems", IEEE International Conference on Energy, Power and Environment (ICEPE-2015), 12-13 June, 2015, NIT Megalaya, Shillong, INDIA.
13. Vijitha, K., **Selvan, M.P.** and Raja, P., "Short Circuit Analysis and Adaptive Zonal Protection of Distribution System with Distributed Generators", IEEE International Conference on Energy, Power and Environment (ICEPE-2015), 12-13 June, 2015, NIT Megalaya, Shillong, INDIA.
14. Hrishikeshan, V.M., Venkatraman, K. and **Selvan, M.P.**, "Performance of Custom Power Devices in SCIG based Windfarms during Abnormal Grid Conditions", **IEEE International Conference INDICON-2014**, 11-13 December, 2014, Pune, INDIA.
15. Arun, S.L., Kumaravel, S. and **Selvan, M.P.**, "Unit Size Optimization of Hybrid Energy System" **IEEE International Conference on Innovative Smart Grid Technologies-Asia (ISGT ASIA-2014)**, 20-23 May, 2014, Kuala Lumpur, MALAYSIA, pp. 79-83.
16. Vijitha, K. and **Selvan, M.P.**, "Performance Analysis of Distribution Network with Optimally Sized WTGS based DGs Considering Wind Speed Variation" **IEEE International Conference INDICON-2013**, 13-15 December, 2013, IIT Bombay, Mumbai, INDIA.
17. Anish NK, T. Murali Chakkravarthy, Dastagiri Reddy, B., Moorthi, S. and **Selvan, M.P.**, "FPGA Based Control Scheme for a Single-Stage Grid-Connected Solar Photovoltaic System", **IEEE International Conference AFRICON 2013**, 9-12 September, 2013, Mauritius, AFRICA.
18. Vinothkumar, K. and **Selvan, M.P.**, "DG Planning Method for Enhancement of Voltage Stability Margin in Distribution System", **IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES 2012)**, 16-19 December, 2012, CPRI Bangalore, INDIA, pp. 1-6.
19. Ranjith Kumar, S., Raja, P. and **Selvan, M.P.**, "Virtual Laboratory Environment using MATLAB GUI for Teaching of Induction Generators" **IEEE International Conference INDICON-2012**, 7-9 December, 2012, Cochin, INDIA, pp. 676-681.
20. Rao, V M Sandeep, Natarajan Aravind, Moorthi, S. and **Selvan, M.P.**, "Real-time Object Tracking in a Video Stream using Field Programmable Gate Array" **IEEE International Conference INDICON-2012**, 7-9 December, 2012, Cochin, INDIA, pp. 167-170.
21. **Selvan, M.P.** and Chiranjeevi, V, "A Method for Siting of STATCOM and SSSC for Power Transfer Capacity Enhancement" **IEEE International Conference INDICON-2012**, 7-9 December, 2012, Cochin, INDIA, pp. 367-372.
22. Venkatraman, K., Aasish, T.R., **Selvan, M.P.** and Moorthi, S. "Experimental Verification of FPGA Controller based Series Active Filter" **IEEE Asia Pacific Conference on Postgraduate Research (PRIMEASIA-2012)**, 5-7 December, 2012, Hyderabad, INDIA, pp. 197-200.
23. Anish, N.K., Deepak Krishnan, Moorthi, S. and **Selvan, M.P.**, "FPGA Based Microstepping Scheme for Stepper Motor in Space-Based Solar Power Systems" **International Conference on Industrial and Information Systems (ICIIS 2012)**, 6-9 August, 2012, IIT Madras, INDIA, pp. 1-6.
24. Srinath, S. Chandan Kumar and **Selvan, M.P.**, "Digital Feedback Control based Dynamic Voltage Compensator for Voltage Sag Mitigation: Simulation and Experimental Validation", **International Conference on Industrial and Information Systems (ICIIS 2012)**, 6-9 August, 2012, IIT Madras, INDIA, pp. 1-6.
25. Venkatraman, K., **Selvan, M.P.** and Moorthi, S., "Investigation on Series Active Filter with Small Energy Source for DC Voltage Control", **Springer International Conference on Control, Communication and Power Engineering (CCPE-2012)**, 27-28 April, 2012, Bangalore, INDIA, pp. 454-459.
26. Sreejith, S., Sishaj P. Simon, and **Selvan, M.P.**, "Optimal Power Flow Incorporating Thyristor Controller Series Compensator Using Differential Evolution", **IEEE International Conference on Computing, Electronics and Electrical Technologies (ICCEET-2012)**, 21-22

- March, 2012, Kumaracoil, INDIA, pp. 174 - 179.
27. Sreejith, S., Sishaj P. Simon, and **Selvan, M.P.**, "Comparative Evaluation of Modelling Methods for TCSC in Optimal Power Flow Studies", **IEEE International Conference on Power, Signals, Controls and Computation (EPSCICON-2012)**, 3-6 January, 2012, Thrissur, INDIA, pp. 1-6.
 28. Anish, N.K., Deepak Krishnan, Moorthi, S. and **Selvan, M.P.**, "FPGA Based Microstepping Scheme for a Stepper Motor in Solar-Tracking Applications", **International Conference on Renewable Energy Utilizations (ICREU-2012)**, 04-06 January, 2012, CIT Coimbatore, INDIA, pp. 245-251.
 29. Vinothkumar, K. and **Selvan, M.P.**, "Analysis of Power Conversion Losses in Dynamic Slip Control Topologies of Grid Connected Small Wind Generators", **International Conference on Renewable Energy Utilizations (ICREU-2012)**, 04-06 January, 2012, CIT Coimbatore, INDIA, pp. 109-115.
 30. Venkatraman, K., **Selvan, M.P.** and Moorthi, S., "Performance Analysis of Series Active Filter under Non Sinusoidal Supply and Non Linear Loading", **IEEE International Conference on Power and Energy Systems (ICPS -2011)**, 22-24 December, 2011, IIT Madras Chennai, INDIA, pp. 1-6.
 31. Venkatraman, K., **Selvan, M.P.** and Moorthi, S., "Performance of Series Active Filter in Low Voltage Distribution System with Non Linear Loads", **IEEE International Conference INDICON-2011**, 16-18 December, 2011, Hyderabad, INDIA, pp. 1-6.
 32. Srinath, S. Chandan Kumar and **Selvan, M.P.**, "Dynamic Voltage Compensator: Transformation less Control Perspective", **IEEE International Conference on Innovative Smart Grid Technologies-India (ISGT 2011-India)**, 01-03 December, 2011, Kollam, INDIA, pp. 1-6.
 33. Srinath, S. and **Selvan, M.P.**, "Investigation on Rating of Shunt APF in Unified Power Quality Conditioner", **IET International Conference on Sustainable Energy and Intelligent System (SEISCON 2011)**, 20-22 July, 2011, Chennai, INDIA, pp. 7-11.
 34. Sreejith, S., Sishaj P. Simon and **Selvan, M.P.**, "Investigations on Power Flow Solutions using Interline Power Flow Controller (IPFC)" **IET International Conference on Sustainable Energy and Intelligent System (SEISCON 2011)**, 20-22 July, 2011, Chennai, INDIA, pp. 63-68.
 35. Vinoth Kumar, K. and **Selvan, M.P.**, "Enhanced Fault Ride-Through (FRT) Scheme & Coordinated Reactive Power Control for DFIG" **IEEE International Conference on Sustainable Energy Technologies (ICSET 2010)**, 6-9 December, 2010, Kandy, SRILANKA, pp.1-6.
 36. Srinath, S. and **Selvan, M.P.**, "Indigenous Control of Augmented DC Voltage in D-Statcom", **IEEE Symposium on Industrial Electronics and Applications (ISIEA 2010)**, 3-5 October, 2010, Penang, MALAYSIA, pp. 253-257.
 37. Vinoth Kumar, K., **Selvan, M.P.** and Srinath, S., "Impact of DG Model and Load Model on Placement of Multiple DGs in Distribution System", **International Conference on Industrial and Information Systems (ICIIS 2010)**, 29th July – 1st August, 2010, NITK Surathkal, INDIA, pp. 159-164.
 38. Srinath, S., **Selvan, M.P.** and Vinoth Kumar, K., "Comparative Evaluation of Performance of Different Control Strategies on UPQC Connected Distribution System", **International Conference on Industrial and Information Systems (ICIIS 2010)**, 29th July – 1st August, 2010, NITK Surathkal, INDIA, pp. 165-170.
 39. Sreejith, S., Sishaj P. Simon and **Selvan, M.P.**, "Power Flow Analysis Incorporating Firing Angle Model Based TCSC", **International Conference on Industrial and Information Systems (ICIIS 2010)**, 29th July – 1st August, 2010, NITK Surathkal, INDIA, pp. 188-193.
 40. Sudha, C. and **Selvan, M.P.**, "Feature Extraction Techniques for Power Quality Disturbance Detection and Classification", **International Conference on Power Systems (ICPS 2009)**,

- 27-29 December, 2009, IIT Kharagpur, INDIA, pp.1-6.
41. Vinoth Kumar, K. and **Selvan, M.P.**, "Dynamic Slip Control Topologies and Novel Control Strategy for Grid Connected Opti-Slip Induction Generator" **IEEE Region Ten International Conference (TENCON 2009)**, 23-26 November, 2009, SINGAPORE, pp. 1-6
 42. Vinoth Kumar, K., Nageswar Rao, A. and **Selvan, M.P.**, "Mitigation of Output Power Fluctuations in Wind Farms with Opti-Slip Induction Generator", **IEEE PES/IAS International Conference on Sustainable and Alternative Energy (SAE 2009)**, 28-30 September, 2009, Valencia, SPAIN, pp.1-6.
 43. Vinoth Kumar, K. and **Selvan, M.P.**, "Planning and Operation of Distributed Generations in Distribution Systems for Improved Voltage Profile", **IEEE PES Power Systems Conference and Exposition (PSCE 2009)**, 15-18 March, 2009, Washington, USA, pp.1-7.
 44. **Selvan, M.P.** and Swarup, K. S., "Unbalanced Distribution System Short Circuit Analysis – An Object-Oriented Approach", **IEEE Region Ten International Conference (TENCON 2008)**, 19-21 November, 2008, Hyderabad, INDIA, pp. 1-6.
 45. Vinoth Kumar, K. and **Selvan, M.P.**, "A Simplified Approach for Load Flow Analysis of Radial Distribution Network with Embedded Generation", **IEEE Region Ten International Conference (TENCON 2008)**, 19-21 November, 2008, Hyderabad, INDIA, pp. 1-6.
 46. Kotte Venkateswarlu and **Selvan, M.P.**, "Comparative Study on DStatcom Inverter Topologies for Source Current Balancing", **International Conference on Power System Analysis, Control and Optimization (PSACO 2008)**, 13-15 March, 2008, Visakhapatnam, INDIA, pp. 783-790.
 47. Sudha, C. and **Selvan, M.P.**, "Wavelet Based Detection and ANN Based Classification of Power Quality Disturbances", **International Conference on Power System Analysis, Control and Optimization (PSACO 2008)**, 13-15 March, 2008, Visakhapatnam, INDIA, pp. 426-430.
 48. Sumathi, N, **Selvan, M.P.** and Kumaresan, N. "A Hybrid Genetic Algorithm Based Power System Stabilizer", **International Conference on Intelligent and Advanced Systems (ICIAS 2007)**, 25-28 November, 2007, Kuala Lumpur, MALAYSIA, pp.1-6.
 49. Anuradha, J and **Selvan, M.P.** "A Comparative Study of Forward-Backward Sweep Power Flow Methods for Radial Distribution System", **International Conference on Modelling and Simulation (CITICOMS 2007)**, 27-29 August, 2007, Coimbatore, INDIA, pp. 1-7.
 50. **Selvan, M.P.** and Swarup, K.S. "Distribution System Load-Flow using Object-Oriented Methodology", **IEEE International Conference on Power System Technology (POWERCON 2004)**, 21-24 November, 2004, SINGAPORE, pp. 1168-1173.
 51. **Selvan, M.P.** and Swarup, K.S. "Object-Oriented Software Modelling of Unbalanced Distribution System", **International Conference on Power Systems (ICPS 2004)**, 3-5 November, 2004, Kathmandu, NEPAL, pp. 227-230.
 52. **Selvan, M.P.** and Swarup, K.S. "Large Scale Power System Computations with Object-Oriented Design", **IEEE PES General Meeting**, June 2004, Colorado, USA, pp. 330-335.

NATIONAL

1. Hanumanthan Rao, B., Chandan Kumar, B., Manjunatha Sharma, K. and **Selvan, M.P.**, "Design and Development of an Emulator for Distribution Automation Using DCS", **National Power Systems Conference (NPSC 2018)**, 14-16 December, 2018, NIT-Tiruchirappalli, INDIA.
2. Navya Krishnan K, Hanumanthan Rao, B., Arun, S.L. and **Selvan, M.P.**, "Interactive Demand Response in a Locality of Smart Power System", **National Power Systems Conference (NPSC 2018)**, 14-16 December, 2018, NIT-Tiruchirappalli, INDIA.
3. Arun, S.L. and **Selvan, M.P.**, "Prosumer based Demand Response for Profitable Power Exchange between End-user and Utility", **National Power Systems Conference (NPSC 2018)**, 14-16 December, 2018, NIT-Tiruchirappalli, INDIA.

4. Nindra Sekhar, Lakshmana Rao, P., Kumaresan, N. and **Selvan, M.P.**, "Experimental Investigation on Operation of Stand-alone Wind-driven DFIG-Solar PV System", **National Conference on Hybrid AC/DC Power Systems for effective utilization of Renewable Energy** (IEI-NCEE 2017), 24 – 25 November 2017, NIT Tiruchirappalli, INDIA
5. Sampada Sunil Sahare and **Selvan, M.P.**, "Comparison of Different Phase Shift Control Techniques for Isolated Bi-directional DC-DC Converter (IBDC) for Battery Charging Application", **National Conference on Hybrid AC/DC Power Systems for effective utilization of Renewable Energy** (IEI-NCEE 2017), 24 – 25 November 2017, NIT Tiruchirappalli, INDIA
6. Arun, S.L. and **Selvan, M.P.**, "Very Short Term Prediction of Solar Radiation for Residential Load Scheduling in Smartgrid", **National Power Systems Conference (NPSC 2016)**, 19-21 December, 2016, IIT-Bhubaneswar, INDIA.
7. Vijaya Priya, R., Kishore Reddy, S., **Selvan, M.P.** and Raja, P., "Parallel Operation of Permanent Magnet Synchronous Generator Based Windmills Connected to HVDC-VSC Link", **National Power Systems Conference (NPSC 2016)**, 19-21 December, 2016, IIT-Bhubaneswar, INDIA.
8. Asha Radhakrishnan and **Selvan, M.P.**, "Load Scheduling for Smart Energy Management in Residential Buildings with Renewable Sources", **National Power Systems Conference (NPSC 2014)**, 18-20 December, 2014, IIT-Guwahati, INDIA.
9. Hrishkesan, V.M., Venkatraman, K., **Selvan, M.P.** and Moorthi, S., "Application of D-STATCOM in SCIG based Wind-farms during Normal and Abnormal Grid Conditions", **National Power Systems Conference (NPSC 2014)**, 18-20 December, 2014, IIT-Guwahati, INDIA.
10. Lalit Negi and **Selvan, M.P.**, "Maximum Penetration Ranking based Siting and PSO Assisted Goal Programming based Sizing of DG units in Radial Distribution System", **National Power Systems Conference (NPSC 2012)**, 12-14 December, 2012, IIT-BHU, Varanasi, INDIA.
11. Srinath, S., Anu G. Kumar and **Selvan, M.P.**, "Experimental Verification of Unified Power Quality Conditioner with Transformation Less Combined Mode Control", **National Power Systems Conference (NPSC 2012)**, 12-14 December, 2012, IIT-BHU, Varanasi, INDIA.
12. Srinath, S., Anu G. Kumar and **Selvan, M.P.**, "Simulation and Experimental Verification of Transformationless Control of Series Active Filter for Mitigating Load Voltage Harmonics", **National Power Systems Conference (NPSC 2012)**, 12-14 December, 2012, IIT-BHU, Varanasi, INDIA.
13. Srinath, S., Mohan, K., Prabakaran, S. and **Selvan, M.P.**, "Implementation of Single Phase Shunt Active Filter for Low Voltage Distribution System". **National Power Systems Conference (NPSC 2010)**, 15-17 December, 2010, Hyderabad, INDIA.
14. Vinoth Kumar, K., Santhosh Kumar, B. and **Selvan, M.P.**, "Voltage Stability Enhancement of Radial Distribution System using Distributed Generators". **National Power Systems Conference (NPSC 2010)**, 15-17 December, 2010, Hyderabad, INDIA.
15. Mohan, K., Prabakaran, S., Srinath, S. and **Selvan, M.P.**, "Effect of Short Circuit Level of Distribution System on the Performance of Series Active Filter", **National Conference on Control of Power Electronic Drives and System (CPEDS 2010)**, May 30-31, 2010, Andhra University, Visakhapatnam, INDIA, pp. 26-31.
16. Vinoth Kumar, K., Surendar, G. and **Selvan, M.P.**, "Performance Comparison of Shunt Active Filter and Hybrid Active Filter", **National Systems Conference (NSC 2008)**, December 17-19, 2008, IIT Roorkee, INDIA, pp. 71-76.
17. **Selvan, M.P.** and Sahaya Elsi, S., "Modeling and Simulation of Unified Series Shunt Compensator", **National Conference on Electrical and Embedded Systems (NCEEE 2008)**, March 20-21, 2008, Anna University-Chennai, INDIA, pp. 135-139.
18. **Selvan, M.P.** and Swarup, K.S., "Object-Oriented Modelling of Distribution System with

Dispersed Generations for Power Flow Analysis", **National Power Systems Conference** (NPSC 2004), December 27-30, 2004, IIT Madras, INDIA, pp. 122-127.

19. Ravi Badhan, **Selvan, M.P.** and Swarup, K. S., "Distribution Feeder Reconfiguration Using Object Oriented Programming", **IEEE-Annual Convention and Exhibition**, December 2002, Kolkata, INDIA, pp.430-434.
20. **Selvan, M.P.** and Swarup, K.S., "Network Topology Processor- An Object-Oriented Approach", **IEEE-Annual Convention and Exhibition**, December 2002, Kolkata, INDIA, pp.435-439.