Curriculum Vitae

Brief Profile:

M. P. Selvan is Professor in the EEE Department. He is associated with the Hybrid Electrical Systems Laboratory. He holds a Ph.D. degree from IIT Madras. He has 20 years of teaching and research experience in the field of power systems. He has published more than 150 research papers in various national, international conferences and journals. His research interests include Grid Interaction of Electric Vehicles, Demand Response & P2P Energy Transactions in Smart Grid, Distributed Generation & Micro-grid. He investigated research projects sponsored by DST, POWERGRID, NIWE and MeitY. He is also a recipient of Visvesvaraya Young Faculty Research Fellowship from MeitY. He supervised six Ph.D. and three M.S. scholars and co-supervised four Ph.D. scholars. He is holding three Indian Patents. He has



co-authored four book chapters. He is a Life Member of ISTE, Fellow of IE (India), Senior Member of IEEE. Presently, he is the Faculty Advisor of Designers' Club, Associate Dean (Electrical) in the office of Dean (Planning & Development), NIT Tiruchirappalli and Secretary of IEEE PES Chapter, Madras Section.

1. Name M.P. Selvan

2. Designation: Professor

3. Office Address: EEE F17, EEE Department

4. Telephone (Direct): **0431-250 3262**

5. Email (Primary): selvanmp@nitt.edu selvanmp.psect@gmail.com

6. Field(s) of Specialization: Computer Applications in Power Systems

7. Employment Profile

| Job Title | Employer | From | То |
|---------------------|---------------------|------------|------------|
| Assistant Professor | NIT Tiruchirappalli | April 2006 | March 2018 |
| Associate Professor | NIT Tiruchirappalli | March 2018 | Till Date |

8. Academic Qualifications (From Highest Degree to High School):

| Examination | Board / University | Year | Division | Subjects |
|-------------|---|------|---------------------------|---|
| Ph.D. | Indian Institute of Technology Madras | 2006 | | Computer Applications in Power Systems |
| M.E. | Regional Engineering College Tiruchirappalli | 2000 | Institute First Rank | Power Systems |
| B.E. | Manonmanium Sundaranar University, Tirunelveli | 1999 | University Second Rank | Electrical and Electronics |
| HSC | S M R V Higher Secondary School, Nagercoil | 1995 | School First Rank | Mathematics, Physics, Chemistry, Biology |
| SSLC | S M R V Higher Secondary School, Nagercoil | 1993 | School First Rank | Mathematics, Science |

9. Academic/Administrative Responsibilities within the University

| Position | Faculty/Department/Centre/Institution | From | То |
|-----------------|---|------|-----------|
| Hostel Warden | Zircon C Hostel | 2011 | 2015 |
| Member | UG Admissions Committee | 2018 | 2020 |
| Counselor | IEEE Student Branch | 2020 | 2022 |
| Associate Dean | Office of Dean (Planning & Development) | 2020 | Till Date |
| (Electrical) | | | |
| Faculty Advisor | Designers' Club | 2021 | Till Date |

10. Academic/Administrative Responsibilities outside the University

| Position | Institution | From | To |
|---------------------|--------------------------|------|-----------|
| Member, | IIIT Tiruchirappalli | 2016 | 2018 |
| Admission Committee | | | |
| Secretary | IEEE PES, Madras Section | 2021 | Till Date |

11. Awards, Associateships etc.

| Year of Award | Name of the Award | Awarding Organization |
|---------------|-------------------|-----------------------|
| | | |

12. Fellowships

| Y | Year of Award | Name of the Fellowship | Awarding | From | То |
|---|---------------|---|--------------|--------------|--------------|
| | | | Organization | (Month/Year) | (Month/Year) |
| | 2016 | Visvesvaraya Young Faculty Research Fellowship | MeitY | 2016 | 2019 |

13. Details of Academic Work

(i) Curriculum Development

B.Tech. (EEE) & M.Tech. (Power Systems)

(ii) Courses taught at Postgraduate and Undergraduate levels

| Undergraduate | Basics of Electrical and Electronics Engineering |
|---------------|--|
| 8 | Applied Electrical and Electronics Engineering |
| | Basics of Programming |
| | Electromagnetic Fields |
| | Transmission and Distribution of Electrical Energy |
| | Power System Analysis |
| | Power System Economics and Control Techniques |
| | Power Systems Engineering |
| | Electrical Machines Laboratory |
| | Electrical Technology Laboratory |
| | Power System Simulation Laboratory |
| Postgraduate | Power System Dynamics |
| | Electrical Distribution Systems |
| | Renewable Power Generation Sources |
| | High Voltage DC Transmission |
| | Distributed Generation and Microgrid |
| | Smart Grid Technologies |
| | Power System Simulation Laboratory |

(iii) Projects guided at Postgraduate level

| S.No. | Title | Student Name | Duration |
|-------|--|------------------------|----------------------|
| 1 | Study of certain custom power devices for power quality improvement | S. Shaya Elsi | July – December 2006 |
| 2 | Load flow analysis of distribution system incorporating wind energy conversion system as a dispersed generation. | J. Anuradha | July – December 2006 |
| 3 | Study of unified series-shunt compensator for power quality improvement | S. Shaya Elsi | January – June 2007 |
| 4 | A comparitive study of Forward- backward sweep power flow methods for radial distribution system | J. Anuradha | January – June 2007 |
| 5 | Wavelet base detection and AI based classification of power quality disturbances | S. Sudha | July – December 2007 |
| 6 | Comparative Study on DSTATCOM Inverter Topologies for Source Current Balancing | Kotte Venkateswarlu | July – December 2007 |
| 7 | Analysis and Simulation of Shunt Active Power Filter | G. Surendar | July – December 2007 |
| 8 | Wavelet base detection and AI based classification of power quality disturbances | S. Sudha | January – June 2008 |
| 9 | Study on D-Statcom current control techniques for source current balancing and harmonics reduction. | Kotte Venkateswarlu | January – June 2008 |
| 10 | Performance comparison of SAPF and HAPF. | G. Surendar | January – June 2008 |
| 11 | Simulation and Experimental Investigation on Interaction of OPti-Slip Generator with Grid | Akoju Nageswara Rao | July – December 2008 |
| 12 | Study on Doubly Fed Induction Generator Systems | A. S. Dwarakanadh | July – December 2008 |

| 13 | A Wavelet Transform Analysis for Fault Location | Sodagudi Suresh | July – December 2008 |
|----|--|------------------------|----------------------|
| 14 | Simulation and Experimental Investigation on Interaction of OPti-Slip Generator with Grid | Akoju Nageswara Rao | January – June 2009 |
| 15 | Investigations on Transient Stability of a Power System including Wind Generators | A. S. Dwarakanadh | January – June 2009 |
| 16 | Classification and Location of Power System Faults using Wavelet Transform and Interpolation | Sodagudi Suresh | January – June 2009 |
| 17 | Performance Analysis of Dynamic Voltage Restorer and Series Active Filter | S. Prabakaran | July – December 2009 |
| 18 | Performance Analysis of Shunt Active Filter | K. Mohan | July – December 2009 |
| 19 | Radial Distribution System Load Flow using Interval Arithmetic Method | Santosh Kumar | July – December 2009 |
| 20 | Hardware Implementation of Single Phase Dynamic Voltage Restorer using LF2407 | S. Prabakaran | January – June 2010 |
| 21 | Hardware Implementation of Single Phase Shunt Active Filter using DSP LF2407 | K. Mohan | January – June 2010 |
| 22 | Distribution System Voltage Stability Analysis and its Enhancement using Distributed Generator | Santosh Kumar | January – June 2010 |
| 23 | Small Signal Stability Analysis of Doubly Fed Induction Generator | Surya Prakash | July – December 2010 |
| 24 | Simulation and Hardware Implementation of Three Phase Shunt Active Filter | Chandan Kumar | July – December 2010 |

| 25 | Simulation and Hardware Implementation of Three Phase Dynamic Voltage Restorer | Chandan Kumar | January – June 2011 |
|----|---|--------------------|-----------------------|
| 26 | Siting of FACTS Devices using Sensitivity Analysis | V Chiranjeevi | July 2010 – June 2011 |
| 27 | Study on Full Scale Power Converter Based Wind Energy Conversion System | Krishna Kumar | July 2011– June 2012 |
| 28 | Maximum Penetration Ranking Based DG Integration in Radial Distribution System | Lalit Negi | July 2011– June 2012 |
| 29 | Hybrid State Estimation | Sheetla Prasad | July 2011- June 2012 |
| 30 | Power Quality Improvement using Series Active Filter | Anu G Kumar | July – December 2011 |
| 31 | Experimental Investigation on Unified Power Quality Conditioner for Harmonic Mitigation | Anu G Kumar | January – June 2012 |
| 32 | An Investigation into the Control Approaches of DSTATCOM for Reactive Power Compensation in Three-Phase Four Wire System | Ajay K Mathew | July 2012- June 2013 |
| 33 | State Estimation of Observable and Unobservable Power Systems | Soumya, N.K. | July 2012- June 2013 |
| 34 | Optimal Sizing and Analysis of WTGS based DG in Distribution Networks Considering Wind Speed Variation | Vijitha, K. | July 2012- June 2013 |
| 35 | Study on Performance of Custom Power Devices in SCIG based Wind-farms during Normal and Abnormal Grid Conditions | Hrishikesan, V. M. | July 2013- June 2014 |
| 36 | Dynamic Analysis of Microgrid | Gijo YoYakey | July 2013- June 2014 |

| | <u> </u> | I | |
|----|---|-----------------------------|-----------------------|
| 37 | Load Scheduling for Efficient Energy Management in Buildings with Renewable Power Generations | Asha Radhakrishnan | July 2013- June 2014 |
| 38 | Energy Management in Smart Buildings Through Demand Response | Aravind Raj, A. | July 2014 – June 2015 |
| 39 | Voltage Stability Analysis of Power System with Renewable Power Integration | Rajesh, G. | July 2014 – June 2015 |
| 40 | Investigations on New Topologies for Multilevel Inverters | Shefeen, M. | July 2014 – June 2015 |
| 41 | Decentralized Control of Interconnected Multi Area Power System | Surya Prakash | July 2014 – June 2015 |
| 42 | Parallel Operation of Permanent Magnet Synchronous Generator Based Windmills | Kishore Reddy, S. | July 2015 – June 2016 |
| 43 | Control of Modular Multilevel Inverter Based on Chopper-Cells by Phase Shifted Carrier Based PWM. | Saratbabu, B, | July 2015 – June 2016 |
| 44 | Prototype Development of Energy Management in Smart Building Through Demand Response | Madura Dattatraya Potdar | July 2015 – June 2016 |
| 45 | Adaptive PI Control of STATCOM for Voltage Regulation | Saidam Somanath | July 2015 – June 2016 |
| 46 | Design of FPGA based Monitoring System for Microgrid | A Sunil Kumar Reddy | July 2015 – June 2016 |
| 47 | Cost Effective Design of Power Distribution Systems and Protection Schemes in EPC Projects | Kush Deo Prajapati | July 2015 – June 2016 |
| 48 | Short and Ultra Short Term Forecasting of Solar Irradiance and Wind Speed in Smart Grid Environment | Vanathi, M. | July 2016 – June 2017 |

| 49 | Comparison of Different Phase Shift Control Methods for Bidirectional DC-DC Converter | Sampada Sunil Sahare | July 2016 – June 2017 |
|----|--|----------------------------|-----------------------|
| 50 | Prototype Demonstration of Priority based Load Scheduling for Demand Response in Smart Building | Amit Roy | July 2016 – June 2017 |
| 51 | Protection and Identification of Fault Location in DC Microgrid | Romil Garg | July 2016 – June 2017 |
| 52 | Grid Stability Analysis for High Penetration Solar Photovoltaic | Ajit Kumar K | July 2016 – June 2017 |
| 53 | Dynamic Priority and Time of Use (ToU) Tariff based Demand Response in Smart Building | Aryesh Namboodiri | July 2017 – June 2018 |
| 54 | Protection Scheme for DC Microgrid based on Local Measurements | Nanma P | July 2017 – June 2018 |
| 55 | Game Theory based Demand Response in Smart Grid Environment | Navya Krishnan | July 2017 – June 2018 |
| 56 | Voltage Profile Enhancement and Power Loss Reduction – Case study on Nashik Thermal Power Plant | Kamani Sawan Jayantilal | July 2017 – June 2018 |
| 57 | Inertia Mimiking for Compensating Low Rotational Inertia on Power System due to High Penetration of Photovoltaic and Wind Power Generations | Vagadhani Gopinath | July 2017 – June 2018 |
| 58 | Optimal Scheduling of EV Charging | T. Sornavel | July 2018 – June 2019 |
| 59 | Demand Response in Smart Residential Building with Renewable Energy Generation | P K Kiran Kumar | July 2018 – June 2019 |
| 60 | Demand Response Implementation in a Smart Locality using Game Theory | Pankil Kataria | July 2018 – June 2019 |

| 61 | Locality Energy Sharing In Smart Grid Environment | Digambar Maske | July 2018 – June 2019 |
|----|--|-----------------------|-----------------------|
| 62 | Transactive Energy Based Demand Response in a Smart Residential Locality | Abinraj R | July 2019 – June 2020 |
| 63 | Scheduling of Charging of Electric Vehicles in a Shopping Mall Charging Station | Athulya M S | July 2019 – June 2020 |
| 64 | Mitigating Voltage and Frequency Fluctuations in Micro-grid using Electric Springs | Rajeev Ranjan | July 2019 – June 2020 |
| 65 | Smart Street Lighting and Residential Solar Power Generation Monitoring in a Smart City | A. Ramachandran | July 2019 – June 2020 |
| 66 | Design and Analysis of Modular Multi- Level Converter for HVDC Applications | Prafulkumar Mulik | July 2020 – June 2021 |
| 67 | Scheduling of Charging of Electric Vehicles | Raju Kumar | July 2020 – June 2021 |
| 68 | Modeling for Quantification of Rear Shading, Rear Mismatch, Rear Soiling Losses for 1P/2P, Fixed-Tilt and Tracker Based Solar PV System. | Alok Kumar | July 2020 – June 2021 |
| 69 | Non-Intrusive Load Monitoring for Residential Building | Raut Gaurav Pradip | July 2021 – June 2022 |
| 70 | Smart Load Management of Plug-in Electric Vehicles in Residential Distribution Networks for Peak Shaving | Prasad P Gainewar | July 2021 – June 2022 |
| 71 | V2G Discharging Control Scheme for Peak Shaving in Distribution System | Maya Yuvasri | July 2021 – June 2022 |
| 72 | Wireless Connectivity for Traffic Management System | Armaan Gohil | July 2021 – June 2022 |

(iv)Other contribution(s)

14. Details of Major R&D Projects

| Title of Droiget | Funding Agency | Durati | ion | Status |
|--|--|--------|------|--------------------|
| Title of Project | Funding Agency | From | То | Ongoing/ Completed |
| Power Quality Improvement using Unified Series Shunt Compensator (USSC) | Department of Science and Technology, Govt. of India | 2009 | 2012 | Completed |
| Development of Micro-Grid Controller Integrated with Multiple Types of Renewable Sources and Loads | Powergrid Corporation of India Ltd, Govt. of India | 2013 | 2014 | Completed |
| A Novel Hybrid Energy System for Supplying Isolated Loads with FPGA Based Energy Management Scheme | National Institute of Wind Energy | 2013 | 2017 | Completed |
| Development of Intelligent Residential Load Management System for Smart Grid Environment | Ministry of Electronics and Information Technology (MeitY), Govt. of India | 2016 | 2019 | Completed |
| Wireless Sensor Node for Online Data Transfer of Parameters from Electrical Machines and Drives | NaMPET III, Ministry of Electronics and Information Technology (MeitY), Govt. of India | 2020 | 2023 | Ongoing |
| Development of Metal 3D Printed Light Weight Flywheel and Novel Control Algorithm for Micro-Grid Energy Storage Applications | DST SERB, Govt. of India | 2022 | 2024 | Ongoing |

15. Number of PhDs guided

| Name of the PhD Scholar | Title of PhD Thesis | Role(Supervisor/ Co-Supervisor) | Year of Award |
|-------------------------|---|------------------------------------|------------------|
| K. Vinothkumar | Investigations on Distributed Generation Planning and Certain Grid Interaction Issues of Wind Turbine Generator System | Supervisor | 2011 |
| S. Srinath | Investigations on Performance of Unified Power Quality Conditioner with Combined Mode Control | Supervisor | 2012 |
| S. Sreejith | Scheduling of Thermal Generating Units Incorporating FACTS Devices using Bee Colony Intelligent System | Co-Supervisor | 2013 |
| B. Dastagiri Reddy | Investigations on Certain Multistring Inverter Topologies for Single-phase Micro-grid Applications | Supervisor | 2016 |
| K. Venkatraman | Design and Development of FPGA based Embedded Systems for Online Monitoring, Power Management and Control of Power Quality Conditioners in a Micro-grid | Co-Supervisor | 2016 |
| S.L. Arun | Investigations on Various Demand Response Frameworks for Smart Residential Buildings | Supervisor | 2018 |

| A. Dheepanchakkravarthy | FPGA Controlled Four-Leg DSTATCOM for Multifarious Load Compensation in Power Distribution System | Co-Supervisor | 2019 |
|-------------------------|---|---------------|------|
| Suryanarayana Gangolu | Effective Relaying Schemes for Long Transmission Line Protection | Co-Supervisor | 2019 |
| B. Hanumantha Rao | Investigations on Framework of Transactive Energy Market for Residential Community Microgrid | Supervisor | 2021 |
| P. Kaliappan | Investigations on Protection Schemes of Certain Operational Windfarms in India, Monitoring using Phasor Measurement Unit and its Compliance | Supervisor | 2022 |

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

| Date (s) | Title of Activity | Event (International | of al/ | Role | Event Organized by | Venue |
|---|--|----------------------|-----------|-------------|--|-----------|
| | | National/ Local) | | | | |
| 20 th – 21 st November 2003 | Power System Data Repository and Load Research | National | | Participant | CPRI | Bangalore |
| 2 nd – 6 th December 2003 | Artificial Intelligence Techniques in Power Systems (AIPS 2003) | National | | Participant | IIT Madras and Tennessee Tech University, USA | Chennai |
| 5 th – 6 th January 2007 | National Workshop on Technology Enhanced Learning for Enriching Engineering Education | National | | Participant | Indian Institute of Information Technology and Management | Kerala |
| 09 th -11 th August 2007 | Modeling and Analysis of Electrical Machines | National | | Participant | College of Engineering, Anna University | Chennai |
| 20 th – 27 th August 2007 | Wind Power Integration | National | | Participant | NIT Tiruchirappalli | Trichy |
| 28 th – 29 th August 2007 | Recent Trends in Wind Power Generation and FACTS | National | | Participant | NIT Tiruchirappalli | Trichy |
| 28 th -29 th September 2007 | Electronic Circuit Design Techniques | National | | Participant | NIT Tiruchirappalli | Trichy |
| 12 th -13 th October 2007 | All India Workshop on Recent Trends in Energy Management | National | | Participant | The Institute of Engineers (India) | Trichy |
| 28 th January 2008 – 1 st February 2008 | Electrical Machines and Power Electronics in Renewable Energy Systems | National | | Participant | NIT Tiruchirappalli | Trichy |
| 29 th February, 2008 | Multivariable Control Systems | National | | Participant | NIT Tiruchirappalli | Trichy |

| 16 th June – 28 th June 2008 | Power Electronics and Renewable Energy Electric Conversion Systems | National | Participant | NIT Tiruchirappalli | Trichy |
|--|---|----------|-------------|--|------------|
| 7 th July – 12 th July 2008 | Wavelet Transforms for Data Analysis-Theory and Applications | National | Participant | IIT Madras | Chennai |
| 21st August – 27th August 2008 | Instructional Design and Delivery Systems | National | Participant | National Institute of Technical Teachers Training & Research | Chennai |
| 12 th November – 14 th November 2008 | National Workshop on Power Electronics NWPE 2008 | National | Participant | NIT Tiruchirappalli | Trichy |
| 19 th February 2009 | Computer Networking- Hardware & Software | National | Participant | M/s. SANAT Technologies | NIT Trichy |
| 12 th & 13 th March 2009 | Practical Aspects of Computer Networking | National | Participant | M/s. Extreme Networks | NIT Trichy |
| 4 th May 2009 | Power Electronic Simulation-SEQUEL | National | Participant | NIT Tiruchirappalli | Trichy |
| 15 th June – 27 th June 2009 | Engineering Practices on Fuzzy Logic, Neural Networks and Hybrid Intelligent Systems | National | Participant | NIT Tiruchirappalli | Trichy |
| 22 nd May – 4 th June 2011 | Smart Grid Engineering | National | Participant | NIT Calicut | Kozhikode |
| 12 th December – 22 nd December | Solar Photovoltaics: Fundamentals, Technologies and Applications | National | Participant | IIT Bombay | Mumbai |
| 08 th April 2014 | TEQIP Industrial Workshop on Understanding IGBT: from Device to Inverter | National | Participant | NIT Tiruchirappalli | Trichy |
| 12 th – 13 th May 2014 | TEQIP Industrial Workshop on Power System Modeling and Simulation with PSCAD | National | Participant | NIT Tiruchirappalli | Trichy |
| 20 th – 21 th June 2014 | TEQIP-II Workshop on Low Power Controller using MSP 430 Microcontrollers | National | Participant | NIT Tiruchirappalli | Trichy |
| 26 th – 28 th September 2014 | Short Term Course on Real Time Controller Design Using TI C2000 Microcontroller | National | Participant | NIT Tiruchirappalli | Trichy |
| 04 th – 05 th March 2016 | Short Term Course on Role of Power Electronics in Power Engineering | National | Participant | NIT Tiruchirappalli | Trichy |

| 23 rd – 24 th April 2016 | Workshop on Embedded System Design using FPGA Board | National | Participant | NIT Tiruchirappalli | Trichy |
|---|--|----------|-------------|------------------------|-----------|
| 09 th – 10 th December 2016 | Short Term Course on Realisation of Internet of Things using Raspberry Pi | National | Participant | NIT Tiruchirappalli | Trichy |
| 20-21, February 2017 | Second Workshop for Presentation of Research Work under Visvesvaraya PhD Scheme for Electronics and IT/ITES | National | Participant | IISc Bangalore | Bengaluru |
| 28 July 2017 | One day Workshop of Young Faculty Research Fellows | National | Participant | IISc Bangalore | Bengaluru |
| 28-29, May 2018 | Technical Planning & Evaluation Meet and Workshop of Young Faculty Research Fellows of the Visvesvaraya PhD Programme | National | Participant | IISc Bangalore | Bengaluru |
| 28 th December 2020 – 1 st January 2021 | ATAL Online FDP on Energy Engineering | National | Participant | NIT Tiruchirappalli | Trichy |

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

| Title of Activity | Level of Event | Date (s) | Role | Venue |
|--|-------------------|--|----------|------------------------|
| | (International/ | | | |
| | National/ | | | |
| | Local) | | | |
| Workshop on Electrical Science and Electronics for Physics Teachers of Higher Secondary Schools | National | 28 th and 29 th October 2006 | Convenor | NIT Tiruchirappalli |
| Workshop on C++ Programming for PG students | National | 30 th November 2006 and 1 st December 2006 | Convenor | NIT Tiruchirappalli |
| Workshop on Computer Fundamentals | National | 24 th and 25 th March 2007 | Convenor | NIT Tiruchirappalli |
| Short Term course on Electrical Machines and Power Electronics in Renewable Energy Systems | National | 28 th January 2008 and 1 st February 2008 | Convenor | NIT Tiruchirappalli |
| National Workshop on | National | 12 th November 2008 | Convenor | NIT |

| Power Electronics - NWPE | | to 14 th November | | Tiruchirappalli |
|---|----------|--|----------|------------------------|
| 2008 | | 2008 | | |
| Workshop on Power System Protection – Level 1 Course | National | 16 th – 17 th March 2011 | Convenor | NIT Tiruchirappalli |
| Short Term Course on Power System Stability Issues with Distributed Generators | National | 29 th – 30 th June 2012 | Convenor | NIT Tiruchirappalli |
| TEQIP-II Industrial Workshop on Understanding IGBT: from Device to Inverter | National | 08 th April 2014 | Convenor | NIT Tiruchirappalli |
| TEQIP-II Industrial Workshop on Power System Modeling and Simulation with PSCAD | National | 12 th – 13 th May 2014 | Convenor | NIT Tiruchirappalli |
| TEQIP-II Workshop on Low Power Controller using MSP 430 Microcontrollers | National | 20 th – 21 th June 2014 | Convenor | NIT Tiruchirappalli |
| Short Term Course on Real Time Controller Design Using TI C2000 Microcontroller | National | 26 th – 28 th September 2014 | Convenor | NIT Tiruchirappalli |
| TEQIP-II Short Term Course on Role of Power Electronics in Power Engineering | National | 04 th – 05 th March 2016 | Convenor | NIT Tiruchirappalli |
| TEQIP-II Industrial Workshop on Embedded System Design using FPGA Board | National | 23 rd – 24 th April 2016 | Convenor | NIT Tiruchirappalli |
| Short Term Course on Realisation of Internet of Things using Raspberry Pi | National | 9 th – 10 th December 2016 | Convenor | NIT Tiruchirappalli |
| Two-day workshop on Basics of Information & Network Security and Emerging Trends in Smart Grid Security | National | 20 th – 21 st January 2017 | Convenor | NIT Tiruchirappalli |
| Short-Term Course on Digital Controllers for Power Applications | National | 03 rd - 04 th November 2017 | Convenor | NIT Tiruchirappalli |
| Intelligent Electrical Power Grids | National | 27 th November – 01 st December 2017 | Convenor | NIT Tiruchirappalli |
| Two-day workshop on Information & Network | National | 08 th – 09 st March 2019 | Convenor | NIT Tiruchirappalli |

| Security and Emerging Trends in Smart Grid Security | | | | |
|--|----------|--|----------|------------------------|
| Workshop on Operation and Control of Wind-Solar Hybrid Systems | National | 22 nd – 26 th April 2019 | Convenor | NIT Tiruchirappalli |
| Online Short Term Course on Deep | National | 06 th – 10 th July, 2020 | Convenor | NIT Tiruchirappalli |
| Online Faculty Development Programme on Smart Grid Features and Blockchain Technology for Smart Grid | National | 16 th – 20 th November, 2020 | Convenor | NIT Tiruchirappalli |
| AICTE ATAL Online Faculty Development Programme on Energy Engineering | National | 28 th December 2020 – 1 st January 2021 | Convenor | NIT Tiruchirappalli |
| Online Workshop on Cyber Security and Ethical Hacking | National | 12 th – 16 th April, 2021 | Convenor | NIT Tiruchirappalli |
| Online Workshop on Cloud Computing and Big Data | National | 17 th – 21 st May, 2021 | Convenor | NIT Tiruchirappalli |
| AICTE Margdarshan Online Faculty Development Programme on Teaching Perspectives of Power System | National | 17 th – 21 st May, 2021 | Convenor | NIT Tiruchirappalli |
| AICTE Margdarshan Online Faculty Development Programme on Teaching Perspectives of Power System | National | 24 th – 28 th May, 2021 | Convenor | NIT Tiruchirappalli |
| Alumni Interactive Workshop on Electric Power Engineering | National | 13 th – 17 st September, 2021 | Convenor | NIT Tiruchirappalli |

18. Invited Talks delivered

| Topic | Date | Inviting Organization |
|---|--------------------------------|---|
| Object-Oriented Programming in | 19th October 2007 | Institution of Engineers (India), |
| Engineering Applications | | Tiruchirappalli local center |
| Distributed Generation Planning | 27 th May 2011 | NIT Calicut |
| Distributed Generation Planning for | 26th August 2011 | Coimbatore Institute of Technology, |
| Smart Grid | | Coimbatore |
| Wind Energy Conversion Systems | 26 th January 2012 | Coimbatore Institute of Technology, Coimbatore |
| Soft Computing Applications to FACTS | 18 th May 2012 | Government College of Technology, Coimbatore |
| Distributed Generation Planning for Smart Grid | 28 th July 2012 | Anna University of Technology Madurai |
| Power Electronic Applications in Wind Turbine Generator Systems | 10 th November 2012 | A.C. College of Engineering and Technology, Karaikudi |
| Object-Oriented Methodology | 3 rd March 2013 | BSNL Tiruchirappalli Office |
| Optimization Applications to Grid Connected DGs | 11 th May 2013 | Government College of Engineering, Tirunelveli |

| Rotor Speed Stability and Fault Ride Through Capability of DFIG | 23 rd May 2013 | Government College of Technology, Coimbatore |
|--|---|---|
| Operation and Control of UPQC for mitigation of PQ Problems | 29 th May 2013 | Pondicherry Engineering College, Pondicherry |
| Soft Computing Applications in Distributed Generator Planning | 21st August 2013 | Anna University Chennai, Tiruchirappalli Regional Office |
| Operation and Control of UPQC for mitigating power quality problems | 27 th November 2013 | Thiagarajar College of Engineering, Madurai |
| Application of Power Electronics in SCIG based Windfarms | 12 th December 2013 | Anna University Chennai, Tiruchirappalli Regional Office |
| Different Topologies of Wind and Solar Based Distributed Generation | 21st May 2014 | Government College of Engineering, Bargur |
| Soft Computing Applications to Grid Connected DGs | 12 th June 2014 | National Institute of Engineering, Mysore |
| Smart Grid | 19 March 2015 | Anna University, Tirunelveli Regional Office |
| Embedded Control of Microgrid with Solar Hybrid System | 27 th March 2015 | PSG College of Technology, Coimbatore |
| Microgrid Benefits & Challenges and Associated Control | 21st September 2015 | Anna University Chennai, Tiruchirappalli Regional Office |
| Advanced Metering Infrastructure & Net Metering | 26 th November 2015 | Central Power Research Institute Bangalore |
| Role of Embedded Systems in Smart Grid | 27 th November 2015 | Coimbatore Institute of Technology, Coimbatore |
| Introduction to GIS and its Applications to Power Sector | 25 th January 2016 | National Power Training Institute, Neyveli |
| Introduction to GPS and its Applications to Power Sector | 25 th January 2016 | National Power Training Institute, Neyveli |
| Demand Response and Residential Energy Management System | 12 th March 2019 | Pondicherry Engineering College, Pondicherry |
| IoT Applications in Power Industries | 17 th February 2020 | NLC India Limited |
| Smart Grid | 07 th March 2020 | NLC India Limited |
| Smart Metering – Technology and Benefits | 05 th May 2020 | Institution of Engineers (India), Tiruchirappalli Local Center |
| Advanced Metering Infrastructure for Smart Grid | 29 th May 2020 | Government College of Technology Coimbatore |
| loT for Thermal and Mines Applications | 22 nd August 2020 | NLC India Limited |
| Smart Grid | 11 th September 2020 | NLC India Limited |
| Role of EMS and DMS in Power System Operation | 17 th September 2020 | NLC India Limited |
| Impact of Large Scale Integration of Renewable Energy in Power Systems Applications of IoT in Smart Metering | 18 th September 2020 22 nd October 2020 | Dr. B. R. Ambedkar National Institute of Technology Jalandhar Thiagarajar College of Engineering, |
| 7 Applications of 101 in ornari Wetering | 22 October 2020 | Madurai |

| Integration of Renewable Energy | 10th March 2021 | National Institute of Technology | | | | |
|---|--------------------|-----------------------------------|--|--|--|--|
| Sources in the Smart Grid | | Uttarakhand | | | | |
| Grid Interaction of Electric Vehicles in 18th January 2022 College of Engineering, Perumon, | | | | | | |
| Smart Grid Kerala | | | | | | |
| Demand Side Management & | 25th February 2022 | National Institute of Technology | | | | |
| Community Energy Trading | | Puducherry | | | | |
| Symmetrical Fault Analysis | 6th July 2022 | Government College of Engineering | | | | |
| • | - | Tanjavur | | | | |

19. Membership of Learned Societies

| Type of Membership (Ordinary | Organization | Membership No. with |
|--------------------------------|----------------------------------|---------------------|
| Member/ Honorary Member / Life | | date |
| Member) | | |
| Life Member | Indian Society for | LM-31309 |
| | Technical Education | |
| Fellow | Institution of Engineers (India) | F-1275905 |
| Senior Member | Institute of Electrical and | SM-92598409 |
| | Electronics Engineers | |
| | (IEEE) | |

20. Academic Foreign Visits

| Country | Duration of Visit | Programme | | | |
|-----------|--|---|--|--|--|
| Malaysia | 25-28, November 2007 | International Conference on Intelligent and Advanced Systems (ICIAS 2007) | | | |
| Singapore | December 4, 2008 to January 3, 2009 | TEQIP Training | | | |

21. Publications

(A) Refereed Research Journals:

| Author(s) | Title of Paper | Journal | Vol. (No.) | Pages | Year |
|----------------------------------|--|--|---------------|---------------|------|
| Arjun Visakh and Selvan, M.P. | Feasibility Assessment of Utilizing Electric Vehicles for Energy Arbitrage in Smart Grids Considering Battery Degradation Cost | Energy Sources, Part A: Recovery, Utilization, and Environmental Effects | 44(2) | 4664- 4678 | 2022 |
| Arjun Visakh and Selvan, M.P. | Energy-cost Minimization with Dynamic Smart Charging of Electric Vehicles and the Analysis of its Impact on Distribution System Operation | Electrical Engineering | - | - | 2022 |

| Arjun Visakh and Selvan, M.P. | Smart Charging of Electric Vehicles to Minimize the cost of Charging and the Rate of Transformer Aging in a Residential Distribution Network | Turkish Journal of Electrical Engineering and Computer Sciences | 30(3) | 927- 942 | 2022 |
|---|---|--|--------|-------------|------|
| B. Hanumantha Rao, Shashank Singh, Ritesh Mohan Acharya, and Selvan, M.P. | Blockchain-based Peer-to- Peer Transactive Energy System for Community Microgrid with Demand Response Management | CSEE Journal of Power and Energy Systems | 8(1) | 198- 211 | 2022 |
| B. Hanumantha Rao and Selvan, M.P . | Framework of Transactive Energy Market Pool for Community Energy Trading and Demand Response Management using an Auction-Theoretic Approach | International Journal of Electrical Power and Energy Systems | 137 | | 2022 |
| Ritesh Mohan Acharya, B. Hanumantha Rao and Selvan, M.P. | Aggregator Free Ancillary Services e-Market for Electric Vehicles using Smart Contracts | International Transactions on Electrical Energy Systems | 31(11) | | 2021 |
| B. Hanumantha Rao and Selvan , M. P . | Effective Community Energy Management through Transactive Energy Marketplace | Computers & Electrical Engineering | 93 | | 2021 |
| Kaliappan, P. and Selvan, M.P. | M Class Synchrophasor Compliance for Real-time Monitoring of Smart Power Systems | Journal of The Institution of Engineers (India): Series B, | - | - | 2021 |
| Kaliappan, P., Meera, K.S. and Selvan, M.P. | Assessment of Compliance of Phasor Measurement Units (PMUs) for Smart Grid Applications | International Transactions on Electrical Energy System | 31(4) | - | 2021 |
| Dheepanchakkrava rthy, A., Muthuvel, P., Selvan, M.P., Moorthi, S. and Chitti Babu, B. | Predictive Current Control of FL-Shunt Active Filter for Dynamic and Heterogeneous Load Compensation | Electrical Engineering | - | - | 2021 |
| 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 | 3(3) | 318- 330 | 2020 |
| Selvan, M.P. | Smart Residential Electricity Distribution System for Demand Response under Smart | CSI Transactions on ICT | 8(2) | 231- 234 | 2020 |

| | Grid Environment | | | | |
|--|---|-------------------------------|---------|-------------|------|
| Vijayapriya, R., | Systematized Active Power | IEEE Systems | 14(1) | 708- | 2020 |
| Raja, P. and | Control of PMSG-Based | Journal | | 717 | |
| Selvan, M.P. | Wind-Driven Generators | | | | |
| Shashank Singh, | Agent-based System to | IET Smart | 1(2) | 71-80 | 2019 |
| Aryesh Namboodiri | Control the Air-Conditioner | Cities | | | |
| and Selvan , M.P. | and EV Charging for | | | | |
| Hamilia Das | Residents in Smart Cities | IET Smart Cities | 4(0) | 40-51 | 2019 |
| Hanumantha Rao, B., Arun, S.L. and | An Electric Power Trading Framework for Smart | IET SHARL CILLES | 1(2) | 40-51 | 2019 |
| Selvan, M.P. | Residential Community in | | | | |
| | Smart Cities | | | | |
| Dheepanchakkrava | Performance Evaluation of | IET Generation, | 13 (19) | 4400- | 2019 |
| rthy, A., Jawahar, | FPGA based Predictive | Transmission and | , , | 4409 | |
| M.R., | Current Controller for Four- | Distribution | | | |
| Venkatraman, K., | leg DSTATCOM in Electric | | | | |
| Selvan, M.P. and | Distribution Systems | | | | |
| Moorthi, S., | Evporimental Investigation | lournal of The | 100 (6) | 564 | 2010 |
| Sekhar Nindra, Lakshmana Rao | Experimental Investigation on a New Hybrid System | Journal of The Institution of | 100 (6) | 561- 574 | 2019 |
| Paila, Kumaresan, | Employing Wind-Driven | Engineers (India): | | 314 | |
| N. and Selvan , | DFIG and Solar PV Panels | Series B | | | |
| M.P. | Di 10 ana celai i v i anele | 301100 2 | | | |
| | | | | | |
| Suryanarayana | Effective algorithm for fault | IET Generation, | 13 (13) | 2789- | 2019 |
| Gangolu, Raja, P., | discrimination and | Transmission and | | 2798 | |
| Selvan, M.P. and | estimation of fault location | Distribution | | | |
| Venkata Kirthiga | in transmission lines | | | | |
| M. | | LEEE O | 0(0) | 00.07 | 0040 |
| Shashank Singh, | Smart Load Node for Non- | IEEE Consumer | 8(2) | 22-27 | 2019 |
| Amit Roy and Selvan, M.P . | Smart Load under Smart Grid Paradigm | Electronics Magazine | | | |
| Dheepanchakkrava | Alleviation of Power Quality | Journal of The | 100 (1) | 9-22 | 2019 |
| rthy, A., Selvan, | Issues Caused by Electric | Institution of | 100(1) | 0 22 | 20.0 |
| M.P. and Moorthi, | Arc Furnace Load in Power | Engineers (India): | | | |
| S. | Distribution System using | Series B | | | |
| | 3-Phase Four-Leg | | | | |
| | DSTATCOM | | | | |
| Nikhil, K. A., | FPGA-based Closed Loop | Australian Journal | - | - | 2018 |
| Bharath Chandra, | Monitoring and Control of | of Electrical and | | | |
| P., Jawahar, M.R., | Doubly Fed Induction | Electronics | | | |
| Moorthi, S., Selvan, M.P . and | Generator with Single Inverter and Battery for | Engineering | | | |
| Kumaresan, N. | Wind Energy Conversion | | | | |
| Arun, S.L. and | Smart Residential Energy | Frontiers in Energy | - | - | 2018 |
| Selvan, M.P. | Management System for | | | | |
| | Demand Response in | | | | |
| | Buildings with Energy | | | | |
| Dhaman | Storage Devices | Funda and to a | 04/4) | 000 | 0040 |
| Dheepanchakkrava | Performance Analysis of | Engineering | 21(4) | 692- | 2018 |
| rthy, A., Akhil, S., Venkatraman, K., | FPGA Controlled Four-leg DSTATCOM for | Science and | | 703 | |
| Selvan, M.P. and | Multifarious Load | Technology | | | |
| Moorthi, S. | Compensation in Electric | | | | |
| | Distribution System | | | | |
| Arun, S.L. and | Intelligent Residential | IEEE Systems | 12(2) | 1329- | 2018 |
| Selvan, M.P. | Energy Management | Journal | | 1340 | 1 |

| | System for Dynamic Demand Response in Smart Buildings | | | | |
|---|--|---|---------|---------------|------|
| 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 | 9(2) | 630- 638 | 2018 |
| Dheepanchakkrava rthy, 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 | - | - | 2017 |
| 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 | 20(5) | 1450- 1459 | 2017 |
| 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 | 11 (17) | 4348- 4357 | 2017 |
| 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 | - | - | 2017 |
| 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 | 15(1) | 45-53 | 2017 |
| 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 | 28(1) | 123- 134 | 2017 |
| 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 | 10 (15) | 3875- 3884 | 2016 |
| 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 | 10 (10) | 2410- 2423 | 2016 |
| 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 | 41(9) | 3355- 3367 | 2016 |

| Dastagiri Reddy, B., Selvan, M.P. and Moorthi, S. | Design, Operation and Control of S3 Inverter for Single-Phase Micro-Grid | IEEE Transactions on Industrial Electronics | 62(9) | 5569- 5577 | 2015 |
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| Dastagiri Reddy, B., Anish, N.K., Selvan, M.P. and Moorthi, S. | Applications Embedded Control of n- Level DC-DC-AC Inverter | IEEE Transactions on Power Electronics | 30(7) | 3703- 3711 | 2015 |
| 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 | 269 | 286- 294 | 2015 |
| 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 | 66 | 280- 293 | 2015 |
| Dastagiri Reddy, B. Selvan, M.P. and Moorthi, S. | Simplified Embedded Control Scheme for Two- Stage Multistring Off-Grid Inverter | IET Power Electronics | 7(12) | 2954- 2963 | 2014 |
| Vinothkumar, K. and Selvan, M.P. | Hierarchical Agglomerative Clustering Algorithm Method for Distributed Generation Planning | International Journal of Electrical Power and Energy Systems | 56 | 259- 269 | 2014 |
| 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 | - | - | 2013 |
| 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 | 7(8) | 898- 906 | 2013 |
| Srinath, S. and Selvan, M.P. | Performance Analysis of UPQC with Heterogeneous Control during Load Power Factor Variation | European Transactions on Electrical Power | 22 | 937- 960 | 2012 |
| Srinath, S. and Selvan, M.P. | UPS Mode Operation of UPQC with Mixed Mode Contro | International Review of Automatic Control | 5(3) | 342- 348 | 2012 |
| 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 | 5(2) | 576- 588 | 2012 |
| 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 | 5(2) | 690- 701 | 2012 |
| Vinoth Kumar, K. and Selvan, M.P. | Distributed Generation Planning- A New Approach based on Goal Programming | Electric Power Components and Systems | 40(5) | 497- 512 | 2012 |

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|---|--|--|---------|---------------|------|
| Srinath, S. and Selvan, M.P. | A Combined Mode of Control for UPQC | Australian Journal of Electrical and | 8(3) | - | 2011 |
| | Connected to a Low Voltage Distribution System | Electronics Engineering | | | |
| 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 | 134 | 253- 259 | 2011 |
| 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 | 39 (14) | 1493- 1506 | 2011 |
| 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 | 8(2) | 137- 153 | 2011 |
| Vinoth Kumar, K. and Selvan, M.P. | Fuzzy Embedded Genetic Algorithm Method for Distributed Generation Planning | Electric Power Components and Systems | 39(4) | 346- 366 | 2011 |
| 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 | 52(1) | 2651- 2658 | 2011 |
| Vinoth Kumar, K. and Selvan, M.P. | Grid Integration of Distributed Generation- Consequences on Node Voltage under Grid Perturbations | Wind Engineering | 34(5) | 579- 594 | 2010 |
| Vinoth Kumar, K. and Selvan, M.P. | Control Scheme for Mitigation of Output Power Fluctuations in Grid Connected Wound Rotor Induction Generator | Wind Engineering | 34(5) | 579- 594 | 2010 |
| 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 | 34(4) | 445- 460 | 2010 |
| Selvan, M.P. | Object Oriented Optimal Power Flow-A New Approach Based on Design Patterns | Electric Power Components and Systems | 38(2) | 197- 211 | 2010 |
| 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 | 2(3) | 439- 450 | 2008 |

| Selvan, M.P. and Swarup, K.S. | Modelling and analysis of unbalanced distribution system using object-oriented methodology | Electric Power Systems Research | 76 (11) | 968- 979 | 2006 |
|--|--|---|---------|-------------|------|
| Selvan, M.P. and Swarup, K.S. | Development of power flow software using design patterns | IEEE Transactions on Power Systems | 21(2) | 611- 618 | 2006 |
| Selvan, M.P. and Swarup, K.S. | Dynamic topology processing in a radial distribution system | IEE Proceedings Part C, Generation, Transmission and Distribution | 153 (2) | 155- 163 | 2006 |
| Selvan, M.P. and Swarup, K.S. | Object modelling of balanced and unbalanced distribution systems for power flow analysis | Electric Power Components and Systems | 34(2) | 191- 215 | 2006 |
| Selvan, M.P. and Swarup, K.S. | Object Methodology– Method and Design for Topological Processing | IEEE Power & Energy Magazine, | 3(1) | 18-29 | 2005 |
| 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 | 32(2) | 215- 228 | 2004 |
| Ajit Kumar, K. and Selvan, M.P. | Impact of Solar PV Penetration on Grid | Electrical India | 57 (10) | 30-36 | 2017 |
| Venkata Hareesh, S., Raja, P. and Selvan, M.P. | Need and Challenges of Smarter Power Systems | Electrical India | 56(1) | 82-84 | 2016 |
| Asha Radhakrishnan and Selvan, M.P. | A Load Scheduling for Smart Energy Management in Buildings with Renewable Power Generations | Electrical India | 55(5) | 76-90 | 2015 |
| Vinoth Kumar, K. and Selvan, M.P. | Effect of Distributed Generator Model on Placement of Multiple DGs in Radial Distribution System | Electrical India | 50(8) | 130- 136 | 2010 |
| Selvan, M.P. and Swarup, K.S. | Object-Oriented Power System Analysis | Journal of Indian Institute of Science | 84(5) | 141- 154 | 2004 |

$(B) \ \underline{Conferences/Workshops/Symposia} \ \underline{Proceedings}$

| Author(s) | Title of Abstract/ Paper | Title of the Proceedings | Pages | Venue | Year |
|----------------------------------|---|--|-------|--------------------|------|
| Arjun Visakh and Selvan, M.P. | A Smart Charging Strategy for Electric Vehicles to Improve the Load Factor of Distribution Systems | 7 th Student's Conference on Engineering & Systems (SCES- 2022) | - | MNNIT Allahabad | 2022 |
| Arjun Visakh and Selvan, M.P. | Voltage Dependent Load Models for EV Chargers to Improve the Accuracy of Grid-Impact Studies | International Virtual Conference on Power Engineering Computing and Control (PECCON- | - | VIT Chennai | 2022 |

| | | 2022) | | | |
|--|---|--|-------------|--------------------|------|
| Arjun Visakh and Selvan, M.P. | Charging-Cost Minimization of Electric Vehicles and its Impact on the Distribution Network | 9 th International Conference on Power Systems (ICPS 2021) | 1-5 | IIT Kharagpur | 2021 |
| Arjun Visakh and Selvan, M.P. | Seasonal Effects of Electric Vehicle Charging on the Aging of Distribution Transformers | 13 th IEEE PES Asia Pacific Power & Energy Engineering Conference (APPEEC 2021) | 1-6 | Trivandrum | 2021 |
| Arjun Visakh, T Sornavel and Selvan M.P. | Priority-based charging of electric vehicles to prevent distribution transformer overloading | 2 nd Electric Power and Renewable Energy Conference (EPREC-2021) | 1-5 | NIT Jamshedpur | 2021 |
| Sandipan Roy, Arjun Visakh and Selvan M. P. | Coordinated Charging of Electric Vehicles in Smart Grids to Minimize Distribution Loss | International Online Conference on Smart Grid Energy Systems and Control (SGESC-2021) | 1-7 | NIT Kurukshetra | 2021 |
| Ritesh Mohan Acharya, Arjun Visakh and Selvan, M.P. | Non-intrusive Bilateral EV-to-EV Energy Trading Using Blockchain | Online International Conference on Challenges and Applications in Clean Energy (ICCACE 2020) | 1-7 | NIT Kurukshetra | 2020 |
| Ritesh Mohan Acharya and Selvan, M.P. | Privacy Preserving Market for Smart Grid Data Trading | 7th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON 2020) | 1-6 | MNNIT Allahabad | 2020 |
| Hanumanthan Rao, B. and Selvan, M.P. | Prosumer Participation in a Transactive Energy Marketplace: A Game- Theoretic Approach | IEEE International Power and Renewable Energy Conference (IPRECON 2020) | 1-6 | Kollam | 2020 |
| 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) | 1-6 | IIIT Bangalore | 2019 |
| 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 | 259- 264 | Bangkok | 2019 |
| 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 | 1-6 | IIT Madras | 2019 |

| Dinesh, P., Kumar | FPGA Based SoC | IEEE International | 1-6 | Coimbatore | 2018 |
|---|---|--|---------------|-------------------|------|
| Teja, K., Shashank Singh, Selvan, M.P. and Moorthi, S. | Estimator and Constant Current Charging/Discharging Controller for Lead-Acid Battery | Conference INDICON-2018 | | | |
| 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 | 1-6 | IIT Roorkee | 2017 |
| Ajit Kumar, K., Selvan, M.P. and Rajapandiyan, K. | Grid Stability Analysis for High Penetration Solar Photovoltaics | International Conference on Large-Scale Grid Integration of Renewable Energy in India | 1-8 | New Delhi | 2017 |
| 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 (TENSYMP-2017) | 1-5 | Kochi | 2017 |
| 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 (TENSYMP-2017) | 1-5 | Kochi | 2017 |
| 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) | 3257- 3261 | DTU Delhi | 2016 |
| 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) | 3257- 3261 | DTU Delhi | 2016 |
| 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) | 195- 199 | CPRI Bangalore | 2015 |
| 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) | | NIT Megalaya | 2015 |
| 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) | | NIT Megalaya | 2015 |

| Hrishikesan, V.M., | Performance of Custom | IEEE International | | Pune | 2014 |
|---|---|--|-------------|-------------------|------|
| Venkatraman, K. and Selvan, M.P. | Power Devices in SCIG based Windfarms during Abnormal Grid Conditions | Conference INDICON-2014 | - | ruile | 2014 |
| 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) | 79-83 | Kaula Lampur | 2014 |
| 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 | - | IIT Bombay | 2013 |
| Anish N. K., 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 | Mauritius | 2013 |
| 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) | 1-6 | CPRI Bangalore | 2012 |
| 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 | 676- 681 | Kochi | 2012 |
| 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 | 167- 170 | Kochi | 2012 |
| Selvan, M.P. and Chiranjeevi, V | A Method for Siting of STATCOM and SSSC for Power Transfer Capacity Enhancement | IEEE International Conference INDICON-2012 | 367- 372 | Kochi | 2012 |
| 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) | 197- 200 | Hyderabad | 2012 |
| 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) | 1-6 | IIT Madras | 2012 |
| 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) | 1-6 | IIT Madras | 2012 |

| Venkatraman, K., | Investigation on Series | International | 454- | Bangalore | 2012 |
|---------------------------------------|--|----------------------------------|-------------|------------|------|
| Selvan, M.P. and | Active Filter with Small | Conference on | 459 | Dangalore | 2012 |
| Moorthi, S. | Energy Source for DC | Control, | | | |
| | Voltage Control | Communication and | | | |
| | | Power Engineering | | | |
| 0 | O. C. I.B | (CCPE-2012) | 474 | 17 | 0040 |
| Sreejith, S., Sishaj P. Simon, and | Optimal Power Flow | IEEE International Conference on | 174- 179 | Kumaracoil | 2012 |
| Selvan, M.P. | Incorporating Thyristor Controller Series | Computing, | 179 | | |
| Jordan, min | Compensator Using | Electronics and | | | |
| | Differential Evolution | Electrical | | | |
| | | Technologies | | | |
| | | (ICCEET-2012) | | | |
| Sreejith, S., Sishaj | Comparative Evaluation | IEEE International | 1-6 | Thrissur | 2012 |
| P. Simon, and | of Modelling Methods for TCSC in Optimal Power | Conference on | | | |
| Selvan, M.P. | Flow Studies | Power, Signals, Controls and | | | |
| | 1 low Statics | Computation | | | |
| | | (EPSCICON-2012) | | | |
| Anish, N.K., | FPGA Based | International | 245- | Coimbatore | 2012 |
| Deepak Krishnan, | Microstepping Scheme | Conference on | 251 | | |
| Moorthi, S. and | for a Stepper Motor in | Renewable Energy | | | |
| Selvan, M.P. | Solar-Tracking Applications | Utilizations (ICREU- 2012) | | | |
| Vinothkumar, K. | Analysis of Power | International | 245- | Coimbatore | 2012 |
| and Selvan , M.P. | Conversion Losses in | Conference on | 251 | Compatore | -0.2 |
| , | Dynamic Slip Control | Renewable Energy | | | |
| | Topologies of Grid | Utilizations (ICREU- | | | |
| | Connected Small Wind | 2012) | | | |
| Venkatraman, K., | Generators Performance Analysis of | IEEE International | 1-6 | IIT Madras | 2011 |
| Selvan, M.P. and | Series Active Filter under | Conference on | 1-0 | III Mauras | 2011 |
| Moorthi, S. | Non Sinusoidal Supply | Power and Energy | | | |
| , | and Non Linear Loading | Systems (ICPS - | | | |
| | | 2011) | | | |
| Venkatraman, K., | Performance of Series | IEEE International | 1-6 | Hyderabad | 2011 |
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