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Department of Electrical Engineering

**Academic year 2021-22**

**Journal Publications**

1. Kiruthika, Dr Bindu S “Secured protection of transmission line by distance relay using data mining approach” Indonesian Journal of Electrical Engineering and Computer Science Vol. 23, No. 1, July 2021, pp. 1~13 ISSN: 2502-4752, DOI: 10.11591/ijeecs.v23.i1.pp1-13, <http://doi.org/10.11591/ijeecs.v23.i1.pp1-13>
2. Shrisheil Muchande and Sushil Thale, “Hierarchical Control of a Low Voltage DC Microgrid with Coordinated Power Management Strategies”, Engineering, Technology, and Applied Science Research (ETASR) Journal, Vol. 12, No. 1, February 2022.0.33, <https://doi.org/10.48084/etasr.4625>
3. Dipti Patil, Bindu S, and Sushil Thale, “A Novel Method for Real Time Protection of DC Microgrid Using Cumulative Summation and Wavelet Transform,” International Journal of Electrical and Computer Engineering Systems, vol. 13, no. 4, 2022 April 2022, <https://doi.org/10.32985/ijeces.13.4.7>
4. Dipti Patil, Bindu S, and Sushil Thale, “Deep Neural Network Enabled Fault Detection in LVDC Microgrid Using Empirical Mode Decomposition,” International Journal of Advanced Technology and Engineering Exploration (IJATEE), Vol 9(87) ISSN (Online): 2394-7454 Feb. 2022. <https://www.accentjournals.org/PaperDirectory/Journal/IJATEE/2022/2/4.pdf>

**Conference Publications**

1. N. Swaraj, M. Yadnesh, V Sahil, V Jaydeep, S. Bindu, "Classification of Power Transmission Line Fault Types and Location Using Machine Learning Techniques", &th International Conference on Innovation and Research in Technology and Engineering, Vasantdada Patil Pratishthan's COE and Vishal Arts, Mumbai India, Apr.8-9, 2022.
2. C. Thakare, B. Sharma, G. Chandrababu, T. Joshi, R. Kalva and M. Rajeev, "Design and Implementation of a Compact DC- DC Converter for powering FPGAs," 2021 IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT) 2021, pp. 1-6, July 2021. [10.1109/CONECCT52877.2021.9622674](https://doi.org/10.1109/CONECCT52877.2021.9622674)
3. Keerthi Unni and Sushil Thale, “Simulation and Analysis of Factors Influencing the Residual Range of Electric Vehicle”, The 3rd IEEE Bombay Section Signature Conference (IBSSC-2021) organized by IEEE Bombay Section and ABV-IIITM Gwalior, India, 18-20 Nov 2021.
4. Keerthi Unni and Sushil Thale, “Influence of Auxiliary Loads on the Energy Consumption of Electric Vehicle – A Case Study”, IEEE Transportation Electrification Conference India (ITEC 2021) organized by SAE India, 16-18 Dec. 2021. <https://doi.org/10.1109/IBSSC53889.2021.9673171>
5. E. Raja Vikram Reddy and Sushil Thale, “Pedestrian Detection Using YOLOv5 for Autonomous Driving Applications”, IEEE Transportation Electrification Conference India (ITEC 2021) organized by SAE India, 16-18 Dec. 2021.



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6. Mayur Kumavat and Sushil Thale, "Analysis of CSTR Temperature Control with PID, MPC & Hybrid MPC-PID Controller", Third International Conference on Automation, Computing and Communication 2022 (ICACC-2022), Ramrao Adik Institute of Technology, Nerul, Navi Mumbai, Maharashtra.  
<https://doi.org/10.1051/itmconf/20224401001>
7. Mini Rajeev et al, "Compact Power Supply for Induction Heating in Shrink Fitting", EPREC 2022, NIT Jamshedpur, 27-29th May 2022, published in "Lecture Notes in Electrical Engineering", Springer.
8. Vartak, C., Tanpathak, S., Yadav, N., Wani, H., Rajeev, M, "Small Scale Implementation of Smart Farming using Internet of Things", SAMRIDDHI: A Journal of Physical Sciences, Engineering and Technology, (2021), Vol.13, no.2, pp. 174-181, Dec. 2021.  
<https://smsjournals.com/index.php/SAMRIDDHI/article/view/2580/1200>
9. Aditya Tare, Amol Pednekar, Nisha Thite, Winson Nadar, Ruchi Harchandani, "Design of PFN Based Bipolar Marx Generator", A Journal of Physical Sciences, Engineering and Technology, (2021), Vol.13, no.2, pp. 282-287, Dec. 2021.  
<https://smsjournals.com/index.php/SAMRIDDHI/article/view/2595/1215>
10. Divya.Sajeesh, Sincy George, "Hardware Implementation of Single Phase PWM Rectifier", SAMRIDDHI: A Journal of Physical Sciences, Engineering and Technology, (2021), Vol.13, no.2, Dec. 2021.  
<https://smsjournals.com/index.php/SAMRIDDHI/article/view/2582>

### Academic year 2020-21

#### Journal Publications

1. Ninad. P. Totare, **Dr. Bindu. S.**, "Total Factor Productivity Analysis in the Regime of Multi-Year Tariff Policy Using Fisher Index Method", International Review of Electrical Engineering (I.R.E.E.) Praise worthy publication, Accepted for April 2021 issue
2. **R. Bindu** and **Sushil Thale**, "Performance Analysis of Power Sharing Control Strategies for Battery/Ultracapacitor Hybrid Energy Storage Based Electric Vehicle", *International Review of Electrical Engineering (IREE)*, Accepted on 24<sup>th</sup> April 2020.
3. **M. K. Namboothiripad**, M. J. Datar, M. C. Chandorkar and S. B. Patkar, "FPGA Accelerator for Real-Time Emulation of Power Electronic Systems Using Multiport Decomposition," in *IEEE Transactions on Industry Applications*, vol. 56, no. 6, pp. 6674-6686, Nov.-Dec. 2020, doi: 10.1109/TIA.2020.3024347.

#### Conference Publications

1. Ann Rachel Mathew, **Bindu R.**, **Sushil Thale**, "Design of a Power Electronic Drive for a Small Utility Electric Vehicle" 2020 IEEE India Council International Sub-Sections' Conference (INDISCON 2020) 03– 04 October 2020, Visakhapatnam.



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2. Shrishell Muchande, **Sushil Thale** and Rupesh Wandhare, “Integrated Solar PV-Battery and Micro-Hydro Based Low-Voltage Autonomous DC Microgrid for Rural Electrification”, 47th IEEE Photo-Voltaic Specialist Conference (PVSC), June 2020.
3. Shrishell Muchande, and **Sushil Thale**, “Design and Implementation of Autonomous Low Voltage DC Microgrid with Hierarchical Control”, IEEE International Conference on Smart Technologies for Power, Energy and Control (STPEC 2020), organized by Visvesvaraya National Institute of Technology (VNIT), Nagpur, 25 – 26 September, 2020.
4. Sanket Dalvi and **Sushil Thale**,”Design of DSP Controlled Passive Cell Balancing Network based Battery Management System for EV Application”. accepted for presentation in IEEE India Council International Subsection’ Conference (INDISCON-2020) at Visakhapatnam during July 25-26, 2020.
5. Fabian Tauro **Bindu. S**, R. G. Rane, “ Design of a Full-Bridge Converter for Lead-Acid Battery Charging and Powering DC Loads”, IEEE International Power and Renewable Energy Conference, IPRECON 2020,30 November to 1st December 2020.
6. **M. K. Namboothiripad**, M. J. Datar, M. C. Chandorkar and S. B. Patkar, "Accelerator for Real-Time Emulation of Modular-Multilevel-Converter Using FPGA," 2020 IEEE 21st Workshop on Control and Modeling for Power Electronics (COMPEL), Aalborg, Denmark, 2020, pp.1-7, doi: 10.1109/COMPEL49091.2020.9265684.
7. Rupesh Wandhare, Vrishabh Randive, **Sushil Thale**, “Design of a PV fed Hybrid DC Bus Power Supply with the High Voltage Ride Through Capability”, 47th IEEE Photo-Voltaic Specialist Conference (PVSC), June 2020.
8. Tejas Deshpande, Sayantan Das, Himanshu Chavan, Ankit Kishore Hangloo and **Seema Jadhav**, ”Solar\_Powered LED Street Lighting with Digital Control for Dimming operation”, ICNTE 2021, 15-16th Jan.2021.
9. Devlekar, Shubham, and **Mahendra Rane**, "Modeling and analysis of dual side de-tuned series-series compensation network-based Wireless Power Transmission system." In *2020 IEEE India Council International Subsections Conference (INDISCON)*, pp. 102-107. IEEE, 2020.
10. Jitesh Shastri,Dipesh Narkar,Mandar Sase ,**Rashmi Kale** , " Implementation of Solar Based Irrigation System for Conditions like Pandemic”, ICNTE 2021.
11. Sukanya Khapne , Nishil Lathia , Krunal Parab , Amruta Phadale and **Rashmi Kale**, " Design and Modeling of Pandemic Featured Smart LED System”, ICNTE 2021 15-16th Jan 2021.
12. Dipti D. Patil, **Bindu S**, SushilThale “Arc Fault Detection in DC Microgrid Using Deep Neural Network” International conference on Nascent Technologies ICNTE 2021, 15th and 16th January 2021
13. Ninad P Totare , **Bindu S** “Electricity Distribution Firm Tariff Rationalization in Multi Year Tariff Policy” International conference on Nascent Technologies ICNTE 2021, 15th and 16th January 2021



14. Sachin U, **Bindu S**, H.A Mangalvedeker, Archana Sharma, P C Saroj “Mathematical Modeling of Peaking Switch” International conference on Nascent Technologies ICNTE 2021, 15th and 16th January 2021
15. Utkarsh Mishra, **Mini Rajeev**, “An Investigation in to the Parasitic Influence on the Performance of Buck-Boost converter”, ICNTE -2021, 15-16th Jan.2021.

## Academic Year 2019-20

### Journal Publications

1. **Divya M.**, “Solving Travelling Salesman Problem Using Ant Systems: A Programmer’s Approach”, International Journal of Applied and Computational Mathematics IJACM, (2019) 5: 101. <https://doi.org/10.1007/s40819-019-0662-7>, Springer India, ISSN: 2349-5103 (Print) 2199-5796 (Online).
2. **M. S. Rane**, S.R.Wagh, “Mitigation of Harmonics and Unbalanced Source Voltage Condition in Standalone Microgrid: Positive Sequence Component and Dynamic Phasor based with Real Time Approach”, Heliyon, Elsevier. <https://doi.org/10.1016/j.heliyon.2019.e01178>.
3. **Mahendra Rane**, S.R.Wagh “Impact Analysis of PV-Integrated Grid Using Time Scale Modelling”, International Review on Modelling and Simulations (IREMOS), 11(5), 2019, pp. 343-351.
4. M. Monika, **Mahendra Rane**, S. Wagh, A. M. Stankovic, N. M. Singh “Development of dynamic phasor based higher index model for performance enhancement of dual active bridge”, Electric Power Systems Research, Elsevier, 168, 2019, pp. 305-312
5. Abhishek Kanchan Shiwalkar, Shilpa Ravindra Shinde, “Multiple output dc-dc converter derived from Cock-Croft Walton voltage multiplier and SIMO converter”, International Journal of Research in Engineering and Innovation, Volume-4, Issue-3 pp 137-142, 2020.
6. **Mini Rajeev** and Vivek Agarwal, "Low Voltage Ride-Through Capability of a Novel Grid Connected Inverter Suitable for Transformer-Less Solar PV-Grid Interface," in *IEEE Transactions on Industry Applications*, vol. 56, no. 3, pp. 2799-2806, May-June 2020, doi: 10.1109/TIA.2020.2979134.
7. **R. Bindu** and **Sushil Thale**, “Power Management Strategy for an Electric Vehicle Driven by Hybrid Energy Storage System,” *IETE Journal of Research, Taylor & Francis*, Mar 2020. Available online at <https://doi.org/10.1080/03772063.2020.1729257>.
8. **R. Bindu** and **Sushil Thale**, “Performance Analysis of Power Sharing Control Strategies for Battery/Ultracapacitor Hybrid Energy Storage Based Electric Vehicle,” *International Review of Electrical Engineering (IREE)*, Accepted on 24<sup>th</sup> April 2020.
9. M. Kiruthika, **S Bindu**, “Classification of Electrical Power System Conditions with Convolutional Neural Networks” *Engineering, Technology & Applied Science Research*, Accepted on 8<sup>th</sup> May 2020



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### Conference Publications

1. Salil Patwardhan, **Bindu R., Sushil Thale**, Paper titled "Modeling and Performance Analysis of Battery," Electric Vehicle 2nd International Conference on Power and Embedded Drive Control (ICPEDC-2019), August 21-23, 2019, Chennai, India.
2. Misbah Khan and **Sushil Thale**, "Design and Development of AC Microgrid Power Conditioning Unit for Renewable Energy Integration," submitted and under review at Int. Conf. CAC3, Dec 2019, Mumbai.
3. Omkar Patkar, **Mini Rajeev**, "Experimental Validation of a Transformer-less Inverter with improved gain for Grid-PV Interface", presented at NPEC-2019, NIT Trichi, 13-15th Dec. 2019.
4. Pratik Raut, Sourabh Shelke, **Poornima Rao**, "A case study on grid integrated Microgrid system", at International conference on sustainability and management practices (ICSMS2019).
5. Nikhil Sarode, **Divya M.**, "Active Battery Balancing using Ćuk Converter", National Conference on Renewable Energy and Sustainable Environment NCRESE-2019, NIT Kurukshetra, Aug 2019.
6. Seema Jadhav, Suraj Kamat, "Design and Simulation of Low Power Charging Station for Electric Vehicle", IEEE International Conference on Advances in Computing, Communication and Control (ICAC3 19) December 20 - 21, 2019. DOI: <https://doi.org/10.1109/ICAC347590.2019.9036771>
7. Muazzam Phansopkar, **Mahendra Rane**, "Analysis and simulation of quasi z-source inverter with energy storage system" International Conference on Communication, Electronics and Electrical Engineering, New Delhi, India, October 06, 2019.
8. M. Phansopkar, **Mahendra Rane, Sushil Thale** "Analysis and Control of Quasi Z-source Inverter with Digital Current Control for Energy Storage" 8th International Conference on Power system, Jaipur, India, December 22, 2019.
9. Neelam Pinjari, **Dr Bindu S**, "Design, Analysis and Hardware Implementation of Modified Bipolar Solid-State Marx Generator" 7th International Conference on Advances in Energy Research (ICAER 2019) 10-12 December 2019, IIT Bombay, Maharashtra, India
10. **Harshada C. Bhosale, Rashmi Kale, Ruchi Harchandani** "Significant Role, Design and Stability Analysis of Flyback Converter in Demand-side Management of Distributed Power" IEEE International Conference on Advances in Computing, Communication and Control (ICAC3 19) December 20 - 21, 2019.
11. **Mini K Namboothiripad**, Mandar J Datar, Mukul Chandorkar, Sachin Patkar, "FPGA Accelerator for Real-Time Emulation of Power Electronic Systems Using Multiport Decomposition," presented at National Power Electronics Conference (NPEC), December-19, NIT Trichi.
12. Yogesh Mahajan, Shashank Obla, **Mini Namboothiripad**, Mandar J. Datar, Niraj Sharma and Sachin Patkar, "FPGA-Based Acceleration of LU decomposition for Analog



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and RF Circuit Simulation”, presented at VLSID 2020-33rd International Conference on VLSI Design, January-20, Bangalore.

### Academic year 2018-19

#### Journal Publications

1. **Divya M**, “Solving Travelling Salesman problem using Ant systems: A programmer Approach” Springer 2018, <https://link.springer.com/article/10.1007/s40819-019-0662-7>
2. **Mahendra Rane** Sushma Wagh, “Mitigation of harmonics and unbalanced source voltage condition in standalone microgrid: positive sequence component and dynamic phasor based compensator with real-time approach”, Heliyon 5 (2), e01178, <https://doi.org/10.1016/j.heliyon.2019.e01178>
3. **Mahendra Rane** Sushma Wagh, “Impact Analysis of PV-Integrated Grid Using Time Scale Modelling”, International Review on Modelling and Simulations (IREMOS), 11 (5), pp 343-351, <https://doi.org/10.15866/iremos.v11i5.15394>.
4. **Mahendra Rane** Sushma Wagh, “Development of dynamic phasor based higher index model for performance enhancement of dual active bridge”, Electric Power Systems Research, Elsevier, 168 (2019): 305-312. <https://doi.org/10.1016/j.epsr.2018.10.023>
5. Mrudul Mawlikar and **Sreedevi Nair**, “Design and Implementation of Z-source Inverter using SBC”, Asian Journal of Convergence in Technology, Vol 4, Issue 2. <https://asianssr.org/index.php/ajct/article/view/589>

#### Conference Publications

1. Anuradha Jadhav, **Sreedevi Nair**, “Battery Management System using Fuzzy Logic controller”, International conference on Applied Physics, Power and Material Science in DEC 2018
2. **Mini Rajeev**, Vivek Agrawal, “Low Voltage Ride-through Capability of a Novel Grid connected Inverter Suitable for Transformer-less Solar PV grid Interface IICPE 2018
3. Pranav K, Mohit Patil, Mohit Patle, Sharun Shibi, **Rashmi Kale**, “Implementation of Microcontroller Based Weather Monitoring system”, National Conference on Wave Mechanics and Vibrations-2018
4. **Mini Rajeev**, **Divya S**, “Harmonic compensation by Transformerless Grid tied PV inverter using Conservative power Theory”, I2CT 2019, 29-31st March, Pune.
5. **Minirajeev**, Omkar Patkar, “Single phase Inverter with Improved Gain Suitable for Transformerless PV Grid Interface”, ICATE 2019, 5th april 2019, DMCOE Airoli
6. Soham C, Saurabh K, Aishwarya M, Meera Nair, **Divya M**, “Unit commitment problem using dynamic Programming”, IEEE sponsored International Conference ICNTE 2019, 4-5th Jan 2019



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7. **Bindu.S** ,Kiruthika M, “Performance Analysis of a Distance Relay for Zone Identification”, 2nd IEEE International conference on Power Electronics, Intelligent Control and Energy systems (ICPEICES 2018) held on Oct 22-24, 2018.
8. **Bindu.S**, Kiruthika M, “Fault Identification and Zone Protection in Transmission Line Using Phasor Measurement Units”, IEEE International conference on New Trends in Engineering & Technology(ICNTET) held on Sept 7-8 2018.
9. Mayuri Bhirud, Yash Ajgaokar, **Poornima Rao**, “Top-down approach in Design and Simulation of Grid Integrated Solar Roof top PV system”, IEEE sponsored International Conference ICNTE 2019, 4-5th Jan 2019
10. Mayuri Bhirud, Yash Ajgaokar, **Poornima Rao**, “A Case Study on Grid Integrated Roof Top PV system”, ICSMS 2018, 28-29th Sept 2018
11. Daniel D’sa, **Uma L, Bindu S**, “Performance comparison of Two level voltage source converter with sinusoidal PWM and Space vector PWM for HVDC application”, IEEE sponsored International Conference ICNTE 2019, 4-5th Jan 2019
12. Sujata Patil, **Bindu R, Sushil Thale**, “ Electric Vehicle Power Conditioner with Battery-Ultracapacitor Hybrid energy Storage System”, IEEE International Conference INDICON 2018, Dec 16-18, 2018
13. Sutej Mota Shekhar Prasad, Avadhoot Gopale, Parth Parab, **Ruchi H**, “Generation of DC High Voltage Pulse for Hipot Testing using PFN based Marx Generator”, IEEE International Conference ICCS 2019, May 15-18, 2019
14. Pranav P. Kulkarni; Mohit Patil; Sharun Shibi; Mohit Patle; **Rashmi Kale**, “Review of Online Monitoring of Electrical Machines using IoT”, IEEE sponsored International Conference ICNTE 2019, 4-5th Jan 2019
15. Kiruthika M, Abhishek D Chalwadi, **Bindu S**, “Phasor Measurement Units based Impedance Relay: A Case Study”, 4th International Conference on Recent Trends on Electronics, Information, Communication and Technology (RTEICT), SVCE Bengaluru, May 17-18, 2019.
16. Chinmay Gadre, Yash Raul, Ankit Shingne, **Harshada C. B**, “Design and Development of a Simulation Model of Harmonic Shunt Active Filter using SPWM Current Control Technique”, IEEE International Conference on Recent Trends in Electronics Information Communication Technology (RTEICT2019), May 2019.

### Academic year 2017-18

#### Journal Publications

1. **Mini Rajeev**, Vivek Agrawal, “Analysis and control of a Novel Transformer-less Microinverter for PV-Grid Interface”, IEEE Journal of Photovoltaics, Vol 8, NO 4, July 2018
2. **Mini Rajeev**, Vivek Agrawal, “Single Phase Current Source Inverter with Multi control for Transformerless Grid-PV Interface”, IEEE Transaction on Industry Applications, Vol 54, NO 3, May/June 2018



3. Faheem Khan, **Mini Rajeev**, “A Multiport Half bridge DC-DC converter for PV application”, International Journal Electrical, Electronics and Computer Engineering (IJECESE), Vol 4, Issue 6, Dec 2017.

### Conference Publications

1. **Mahendra Rane**, S. Wagh, “Stability enhancement of Transformerless PV system using Inrush mitigation Techniques”, 49th North American Power Symposium (NAPS17), in West Virginia University, Morgantown, WV, USA, during September 17-19, 2017
2. Arvind Kadam, Keerthi Unni, **Sushil Thale**, “Control Scheme for Seamless Operating mode transfer of AC Microgrid”, 2017 the 5th IEEE International Conference on Smart Energy Grid Engineering
3. Chanchal Patil, **Sushil Thale**, Shrishell M, Arvind Kadam, “A Novel Protection Scheme for DC Microgrid with Hierarchical Control”, 2017 the 5th IEEE International Conference on Smart Energy Grid Engineering
4. Keerthi Unni, **Sushil Thale**, “Precision Agriculture through ICT and Data Ecosystem: An opportunity for Digital Transformation”, 60th Annual IETE Convention-2017, Organised by IETE HQ, Kochi centre, 16-18th Sep 2017
5. Neelam Pinjari, **Dr. Bindu S.**,” Performance analysis of Bipolar Marx Generator Topologies with input switch charging and inductive charging method”, ICISIM-2017, Oct 2017, Aurangabad, Maharashtra.
6. Swathi Pillai, **Sushil Thale**, Akshay Patil, “Unbalanced voltage mitigation with reactive power control of grid-tied solar PV system”, ICAER-2017, Dec 2017, IITB, Mumbai
7. Divya M “Enhancing power system learning experience using simulations”, ICIRTE-2017, Oct 2017, Mumbai
8. **Mini Rajeev**, Pranit Dutta, Vivek Agrawal”Realization of novel transformer-less grid-PV interfaced inverter”, CCUBE-2017, Dec 2017, Bangalore, Karnataka
9. Anant Narkhede, Brayana F, Dattatray H, Chirag R, **Divya M**, “DC Emulation of Three Bus Transmission system“, 2017 IEEE conference on Technological Advancements in Power and Energy (TAP Energy 2017) Kollam, Kerala. Dec 2017
10. **Uma L**, Dr. Sincy George, “Hardware Implementation of Three phase PWM Rectifier”, 2017 IEEE conference on Technological Advancements in Power and Energy (TAP Energy 2017) Kollam, Kerala. Dec 21-23, 2017
11. **Dr. Sushil Thale, Uma L**, “A Novel Configurable signal acquisition system for multiple bio signal measurements: Assistive technology for home rehabilitation”, 2017 IEEE conference on Technological Advancements in Power and Energy (TAP Energy 2017) Kollam, Kerala. Dec 21-23, 2017
12. Chaitanya Wadke, **Rashmi Kale**, “Electric Vehicle Multiple Input Bidirectional Charge controller system”, ICIRTE 2017, Oct 26-27, 2017
13. **Seema Jadhav**, Neha Devdas, Shakila Nisar, Vaibhav Bajpai “Bidirectional DC-DC converter in Solar PV System for Battery Charging Application”, IEEE International conference on Smart City and Emerging Technologies, 5th Jan 2017.





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14. Shubham Sarkar, Amal Antony, Akshay Parab, Tanmay Pokale, **Mini Rajeev** “Renewable Energy Application of Push Pull converter”, IEI Conference on Recent Trends in Renewable Energy Applications in Research 16-17 Feb 2018.
15. **Poornima Rao, Divya S**, “Power Generation using Solar Roof Top system- A case study”, ICAEASM-2017, Oct 8th 2017
16. **Bindu R and Sushil Thale** “Sizing of Hybrid Energy Storage System and Propulsion Unit for Electric Vehicle”, ITEC India 2017, 13-15 Dec 2017.
17. **Bindu R**, Sujata Patil and **Sushil Thale**, “Design and Control of Power Conversion System for Electric Vehicle Application 2017 IEEE International Conference on Technological Advancements in Power and Energy (TAP Energy 2017)
18. Maitreya Vaze, Saikiran, Abhishek, Akshay, **Harshada**, “Head motion controlled Electric wheel chair”, ICSTM 2017, Pune 12th Nov 2017.
19. Ruchi Singh, Neeelam Pinjari, **Bindu S**, “Analysis and Comparative study of Various Charging method implemented for Solid state Marx Generator”, ICAER-2017, Dec 2017, IITB, Mumbai
20. **Sreedevi Nair**, “Design and Implementation of PMBLDC motor using ANN”, 4th International conference on Industrial Engineering ICIE 2017, Dec 21-22 2017
21. Harshada Gawde, **Ruchi Harchandani** “PFN with optimised pulse power and rise time”, ICAC3-2017 Fr. CRCE Bandra on 5th Jan 2018.
22. Dipti Patil, **Dr. Bindu S**, “Real Time Protection technique for DC Microgrid using Local Measurements”, IEEE International Conference on Technologies for Smart City Energy Security and Power (ICSESP-2018), 28th -30 March 2018, Odisha
23. Ninad Totre, **Dr. Bindu S**, “Multi Year Tariff Structure Impact on Financial Status of electric Utility”, IEEE International Conference on Innovative Technologies in Engineering (ICITE-2018), 11th -13 April 2018, Hyderabad
24. Ninad Totre, **Dr. Bindu S**, “Impact of Various Factors on Tariff during Multi Year Tariff Period”, International Conference on Smart Electric Drives and Power System (ICSEDPS), 12th -13 June 2018, Nagpur
25. Shahbaz Shaikh, **Mini Rajeev**, “Active Power Decoupling Method using Active Buffer in a Single phase Photovoltaic Inverter”, EIT June 2017
26. **Ruchi Harchandani**, Pramila Gorade, “Simulation of Three stage PFN based Marx generator with Boosting Operation”, International Conference on Frontiers in Engineering, Applied science and Technology (FEAST-18), April 27th-28th, 2018 at NIT, Trichy
27. **Rashmi Kale**, “Effective Two input Two output Plugin charging Method for Hybrid Vehicle Technology”, International Conference on Frontiers in Engineering, Applied science and Technology (FEAST-18), April 27th-28th, 2018 at NIT, Trichy
28. Samuel Jadhav, Nigel Goves, Akshay K, Neethi Elizabeth, **Divya M**, “Transient Stability Studies using SMIB Emulator”, International Conference on Frontiers in Engineering, Applied science and Technology (FEAST-18), April 27th-28th, 2018 at NIT, Trichy



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29. Prathamesh, Moncy Babu, Abhilash R, Vibhu Goel, **Harshada**, “Design and Simulation of Active Filter for Induction Motor Drives”, International Conference on Frontiers in Engineering, Applied science and Technology (FEAST-18), April 27th-28th, 2018 at NIT, Trichy
30. **Seema Jadhav**, Neha Devdas, Shakila Nisar, Vaibhav Bajpai, “Bidirectional DC-DC converter for Battery Charging and Discharging Application”, International Conference on Global Technology and Initiatives (ICGTI) at Rizvi college, 30th April 2018

### Academic year 2016-17

#### Journal Publications

1. **Harshada C. Bhosale**, “Review of Control Techniques of Three Phase Boost type PWM Rectifiers”, International Journal of Science and Research (IJSR), ISSN: 2319- 7064. Volume 5, Issue 12, December 2016
2. **Seema Jadhav**, Ketan Jore et al, “Design and Implementation of Maximum Power Point Tracking system for Solar PV Panels”, International Journal of Innovative and Emerging Research in Engineering (IJIERE), volume 4, Issue 4, April 2017

#### Conference Publications

1. Prajakta Pawaskar, Pradeep Chawade, **Seema Jadhav**, “Design and Implementation of Low cost Three phase Energy meter”, IEEE International Conference on Recent Trends in Electronics Information Communication Technology, May 20-21, 2016, Bangalore. PP 306-310.
2. Rashmi V. Chaugule, **Ruchi Harchandani**, **Bindu S.** “Design and Hardware Implementation of Two Stage Solid State Bipolar Marx Generator” IEEE International Conference on Recent Trends in Electronics Information Communication Technology, May 20-21, 2016, Bangalore.
3. **Harshada C. B.**, Pranav R., et al, “Solid State Marx Generator with Anti-parallel capacitor configuration using Arduino”, International Conference on Automation control and Dynamic Optimization Techniques (ICACDOT 2016), I2IT, Pune, September 9th and 10th , 2016
4. Minarti Mane, **Mini N**, “Current Harmonics reduction using Sliding mode control based Shunt Active Power filter”, IEEE sponsored 10th International Conference on ISCO 2016, Karpagam COE, 7th and 8th Jan, 2016.
5. Mrudul Mawlikar, **Sreedevi Nair**, “A comparative analysis of Z source inverter and DC-DC converter fed VSI”, IEEE International Conference on Nacent Technologies in Engineering, ICNTE 2017, Jan 27-28, 2017, Vashi.
6. **Seema Jadhav**, “Impact of faults on efficiency of Squirrel cage Induction motor”, IEEE International Conference on Nacent Technologies in Engineering, ICNTE 2017, Jan 27-28, 2017, Vashi.



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7. Harshada Gawde, **Ruchi Harchandani**, “Comparison of Pulse forming Networks for Marx Generator”, IEEE International Conference on Nacent Technologies in Engineering, ICNTE 2017, Jan 27-28, 2017, Vashi.
8. Ramkumar Maurya, **Mini R**, “Implementation of Multilevel DC link inverter for Standalone Application”, IEEE International Conference on Nacent Technologies in Engineering, ICNTE 2017, Jan 27-28, 2017, Vashi.
9. Afroz Abdul Khan, **Divya M**, “Random Modulation Schemes for Industrial Drives”, IEEE International Conference on Nacent Technologies in Engineering, ICNTE 2017, Jan 27-28, 2017, Vashi.
10. Mrudul Mawlikar, **Sreedevi Nair**, “A Comparitive Analysis of Shoot through control schemes for Z source Inverter”, IEEE International Conference on Electrical, Instrumentation and Communication Engineering, ICEICE 2017, April 27-28, 2017, Karur, Tamilnadu.
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