Journal Publications Calender Year 2014

1. Sachin U, **S. Bindu**, H.A Mangalvedeker, Archana Sharma, D.P Chakravarthy, P C Saroj, K C Mittal, D P Chakravarthy (2014) "Analysis of HTEM Horn-Type Antenna for High-Power Impulse Radiation Applications", IEEE Transaction on Plasma Science, Vol 42,No.2, pp 336-339

2. **Ruchi Harchandani, Bindu R.**, "Automation of Kiln mill drive using PLC and SCADA", International Journal of Engineering Research and Technology, Vol 3, Issue 1, ISSN 2276-0181, Jan 2014.

3. Sangita R Nandurkar, **Mini Rajeev**, "Modeling Simulation and Design ofPhotovoltaic Array with MPPT Control Techniques", Int. Journal of Applied Power Engineering, vol.3, no.1, 41-50, 2014.

4. **Ruchi Harchandani, Rashmi Kale,"Selection of Effective Mitigation Method for Inrush Current in Power Transformer," International Journal of Advanced Technology ,2014.**

5. S. George, **K.N. Mini**, K. Supriya, "Optimized reactive power compensation using Fuzzy Logic Controller", Springer Journal of the Institution of Engineers (India) Series B. Electrical, Electronics and Computer Engineering ISSN 2250-2106, May-14.

6. **Divya S**. and **Seema Jadhav**, "Research on Power quality issues in Electric Arc Furnace and its Mitigation techniques", International Journal of Engineering Research and Technology, , Vol 3, Issue 1, ISSN 2276-0181 Jan 2014

Conference publications Calender Year 2014

1. Rakshita D, **Bindu S.**, Sincy George, P C Saroj, Archana Sharma "Design and simulation of 30 kV solid state DC source" International Conference on Magnetics and Drives(ICMMD), AICERA-2014, Kerala24th to 26th July 2014.

2. **Harshada, Bindu S.**, Sincy George, P C Saroj, Archana Sharma "Design and Simulation of 50 kV,50 A solid state Marx generator" International Conference on Magnetics and Drives(ICMMD), AICERA-2014, Kerala24th to 26th July 2014.

3. Sachin B. Umbarkar, **S. Bindu**, H. A. Mangalvedekar, A. Saxena, N. M. Singh, Archana Sharma, P. C. Saroj, K. C. Mittal" Particle in Cell Simulation of Peaking Switch for Breakdown Evaluation" International Symposium on Discharges and Electrical Insulation in Vacuum (ISDEIV-2014) September 28- October 3, 2014 Worli.

4. Rupesh Wandhare, **Sushil Thale**, and Vivek Agarwal, "Design of a Photovoltaic Power Conditioning System for Hierarchical Control of a Microgrid," 40th IEEE Photovoltaic Specialist Conference (PVSC), Denver, Colorado, USA, June 2014.

5. RamchandraBhosale, **Bindu R**. "Indirect Vector Control of Induction motor using Fuzzy Logic Controller," 'International Conference on Advances in Engineering and Technology, ICAET-2014, Jan 8,9th 2014.

6. Mahesh Kumbhar, **Bindu R.**, AbhilashWalavalkar, "Magnetostatic Analysis and Power Optimization of Electric Release Brake".

7. Shraddha Hule, **Bindu R.**, Deepa Vincent, "Sensorless Vector Control of Three Phase Induction Motor"International Conference on Advances in Communication and Computing Technologies (ICACACT 2014),2014 IEEE, 10,11 August 2014.

8. A Das, **M.K. Namboothiripad**, "Sliding Mode Controller with Adaptive Sliding Coefficient for Buck Converter", 6th IEEE Power India International Conference, Power Electronics; PIICON –2014.

9. **Sreedevi S Nair**, Amit Kumar Yadav, "Modelling and Simulation of a Fuel Cell Based System for Residential Applications" Published at the Proceedings of the International Conference in Advances in Science and Engineering, ICAST, 2014.

10. **Seema Jadhav** and Dr.Sincy George "Control of DG in Grid-connected and Intentional Islanded Mode of Operation", Interface-2014, International Conference on Network Infrastructure Management systems, VJTI, Jun 27, 2014.

11. **DivyaSajeesh**, Sincy George, "Power Factor Improvement in Rectifier Circuit –A Simulation study", IEEE international conference on Magnetics, Machines &Drives, Kerala, 24-26 July 2014.

Journal Publications Calender Year 2015

1. **RuchiHarchandani, Bindu S.**, "Solid state Bipolar Marx Generator Topologies: A Comparative study", International Journal Of Engineering Research and Technology (IJERT) ICNTE-2015 Conference Proceedings, 9-10 Jan 2015

2. **SeemaJadhav, RuchiHarchandani** "Grid Interfacing Technologies for Distributed Generation and Power Quality issues-A review" International Journal of Innovative and Emerging Research in Engineering, ISSN:2394-3343,Vol 2, Issue 3 March 2015

3. Pratik D. Rahate, **Mini Rajeev**, "Single Phase Transformer-less Inverter and its Closed Loop Control for Grid Connected PV Applications", Int. journal of Electrical, Electronics and Computer Systems, vol.3, no.5,33-37,2015.

4. Ramkumar L Maurya, **Mini Rajeev**, "Comparative Evaluation of Cascaded Half-Bridge Multilevel DC-Link Inverter and Conventional H Bridge Multilevel Inverter",Int. Journal for Research in Applied Science & Engineering Technology, vol.3, no.10, Oct.2015.

5. Pranav Deshpande, Chinmay Dighe, Akshay Jagtap, PrathameshKamble, Shardul Singh, **Divya M.**, "An Investigation of Standby Power Losses", Advanced Research in Electrical and Electronic Engineering AREEE, Vol.2, No.4, Jan-March, 2015, pp.364-367, Krishi Sanskriti Publications, ISSN: 2349-5804 (Print) 2349-5812 (Online).

6. Shruti Gite, Hageanga, Sheetal Bhave, **DivyaSajeesh**, "Power Factor and Harmonic Analysis in Single Phase AC to DC Converter" International Journal of Engineering Research and Technology, 2015, ISSN 2278- 0181.

7. **Seema Jadhav** and **Ruchi Harchandani**, "Grid Interfacing Technologies for Distributed Generation and Power Quality Issues-A Review", International Journal of Innovative and Emerging Research in Engineering (IJIERE) ISSN-2394-3343, Vol-2, Issue-3, March- 2015

Conference Publications Calender Year 2015

1. Rashmi V. Chaugule ,**RuchiHarchandani, Bindu S.** "Solid state Bipolar Marx Generator Topologies: A Comparative study" ICNTE-2015 January 9-10, 2015.

2. RakshitaDhar, **Bindu S.**, Sincy George PC Saroj, Archana Sharma "A High Voltage Zero Current Switching- Series Resonant Converter Using DSP" ICNTE-2015 January 9-10, 2015.

3. Shreyashi De, **Bindu S.** "Design and Simulation of Solidstate Marx Generator" ICRTIET-2015 May 1-2, 2015, Ongole.

4. Neha Wanjari, **Bindu S.** "Modeling of Bipolar Solidstate Marx Generator Including Parasitic Capacitance Effect" ICCDT-2015 October 11th Mumbai, 2015.

5. Prajakta Pawar and **Sushil Thale**, "Harmonic Analysis and Selective Elimination in PWM Technique Controlled Three Phase Inverter," ICNTE 2015, Fr. C. Rodrigues Institute of Tech., Navi Mumbai, Jan. 2015.

6. KeerthyUnni, and **Sushil Thale**, "Design and Development of a Solar PV Inverter for Water Pumping Applications," ICNTE 2015, Fr. C. Rodrigues Institute of Tech., Navi Mumbai, Jan. 2015. Won the Best Paper Award in Electrical Engineering group.

7. Shantanu Kulkarni and **Sushil Thale**, "Design and Development of Solar PV based Grid Interactive Inverter," ICNTE 2015, Fr. C. Rodrigues Institute of Tech., Navi Mumbai, Jan. 2015.

8. Gauri Madan, KeerthyUnni, Swathy Pillai, and **Sushil Thale**, "Design and implementation of a DC Microgrid with multiple sources," National Conference on Nascent and Advanced Technologies, IETE Navi Mumbai Centre, August 2015.

9. Medha Kulkarni and **Sushil Thale**, "Investigation into Selection and Sizing of Energy Storage for Designing of Dispatchable Solar PV System," National Conference on Nascent and Advanced Technologies, IETE Navi Mumbai Centre, August 2015.

10. Prachi Bhopi and **Sushil Thale**, "Active Generation Management and Load Management for Standalone Solar Photovoltaic System," National Conference on Nascent and Advanced Technologies, IETE Navi Mumbai Centre, August 2015.

11. Parimal Patil, **Mini Rajeev** "Comparison of three different topologies of a five level Multi level inverter", ICNTE-2015, Fr.C.R.I.T.,Vashi.

12. **Mini Rajeev** and V. Agarwal, "Novel transformer-less inverter topology for single-phase grid connected photovoltaic system," IEEE 42nd Photovoltaic Specialist Conference (PVSC), New Orleans, USA, pp. 1-5, Jun. 2015.

13. C. PhaniKumar, **Mini Rajeev** and V. Agarwal, "A novel single stage zero leakage current transformer-less inverter for grid connected PV systems," IEEE 42nd PVSC 2015, New Orleans, USA, pp. 1-5, Jun. 2015.

14. Omkar V Pawar, **Bindu R.,** Rohit Chandan, "Direct Torque Control of Induction Motor using Four Switch Three Phase Inverter" International Conference on Recent Trends and Innovations in

Engineering and Technology," May 1, 2, PACE, A.P: Published in International Journal of Advance Electrical and Electronics Engineering (IJAEEE), ISSN (Print): 2278-8948, Volume-4 Issue-2, 2015.

15. Rahul D Patil, **Bindu R.,** "Modelling and Control of Switched Reluctance Motor for Hybrid Electric Vehicle", International Conference on Recent Trends and Innovations in Engineering and Technology," May 1, 2, PACE, A.P; Published in International Journal of Advance Electrical and Electronics Engineering (IJAEEE), ISSN (Print): 2278-8948, Volume-4 Issue-2, 2015.

16. Kunal Pardeshi, **M.K. Namboothiripad,** "Robust Sliding Mode Controller for PV Connected Converter Inverter System", 2nd international conference on Emerging trends in Technology and Applied sciences at SAINTGITS COE Kottayam in 2015, Kerala.

17. Vinod Pawar, **Mahendra Rane**, "Analysis of Distributed Maximum Power Point Tracking of PV System under Partial Shading Condition," International Conference on Recent Trends & Innovations in Engineering & Technology, ICRTIET-2015, Ongole, Andhra Pradash, May 1-2, 2015.

18. Siddhesh Sawant**, Mahendra Rane**, and Ramchandra Bhosale, "Performance Analysis of Fractional Frequency Transmission System using Hardware setup," in International Conference on Electrical, Electronics, Signals, Communication and Optimization (EESCO) – 2015, Visakhapatnam, Andhra Pradesh.

19. **Sreedevi S Nair**, Amit Kumar Yadav, "Design and Simulation of a Fuel Cell Based System for Residential Applications" Published at the Proceedings of the 24th, IRF, Conference, Pune, April 2015.

20. **Sreedevi S Nair**, MeghaS.Pillai, "Simulation of a PMBLDC motor using Artificial Neural Network" Published at the Proceedings of the International Conference in Industrial Engineering, ICIE,SVNIT, Nov 27,2015.

21. **Divya M.,** "A Comparison of Ant Colony Optimization Algorithms applied to Distribution Network Reconfiguration", International Conference, ICNTE-2015 Fr.C.Rodrigues Institute of Technology, Vashi, Jan 2015, Issue 1, pp. 28-32. ISSN: 2278-0181.

22. Pranav Deshpande, Chinmay Dighe, Akshay Jagtap, PrathameshKamble, Shardul Singh, **Divya M.,** "An Investigation of Standby Power Losses", International Conference, EPEACT-2015, JNU, New Delhi, March 2015.

23. Shilpa Varaskar, **Divya M.,** "A Comparative Simulation Study of Buck Converter Topologies Used in Low Ripple High Power Applications", International Conference, ICCDT-2015, Babasaheb Gawde Institute of Management Studies and Babasaheb Gawde Institute of Technology, Mumbai, Oct 2015, pp. 82-86, ISBN: 978-93-5254-002-0.

24. **Seema Jadhav** and Dr.Sincy George "Design of PI Controller for Grid-connected DG unit using Root Locus Technique", ICNTE-2015, Conference Proceedings, International Journal of Engineering Research and Technology (IJERT) 9-10 Jan 2015.

25. **Seema Jadhav** "Review of Mitigation Techniques for Power Quality issues in Distributed Generation", International Conference on Advanced Science and Technology, ICSAT- 2016 Conference Proceedings, 8-9 Dec 2015.

26. AkshayGadi,Ranjit Devcker and **Rashmi Kale**" Optimization In Switch Utilization For Solar BasedWater Sprinkler And Moisture Sensor - A Case StudySprinkler And Moisture Sensor - A Case Study"Second

International Conference on Contours of Digital Technology at Baba Saheb Gawade Institute of Technology,October 11,2015,Pg.21-26.

27. Ashish Nilegekar and **Rashmi Kale**"Selection and Design of DC-DC Converter for Solar Based Battery Charging of Electric Vehicle", Second International Conference on Contours of Digital Technology at Baba Saheb Gawade Institute of Technology,October 11,2015,Pg.53-58.

28. **Rashmi Kale**"Solar Coupled Switched Mode Power Supply", International Journal of Engineering Research and Technology (IJERT) ICNTE-2015 Conference Proceedings 9-10 Jan 2015.

29. Arpit Bohra, **DivyaSajeesh**&Michael.S., "Modulation Techniques in Single Phase PWM Rectifier", International conference on Advances in science and Technology, Mumbai, 8-9 Dec 2015.

Journal Publications Calender Year 2016

1. **Poornima Rao** Role of Terrace Garden in Sustainability and Environment-a case study in Best Journals, vol4, Issue2, Feb 2016, ISSN2454-471X

2. Ramkumar L Maurya, **Mini Rajeev**, " Introduction to Multilevel DC-LinkInverter and Comparison of Switching Strategies for Cascaded Half BridgeMultilevel DC-Link Inverter", International Journal of Global Technology Initiatives,vol.5,no.1,B8-B16,2016.

3. **Sushil Thale** and Vivek Agarwal, "Controller Area Network Assisted Grid Synchronization of a Microgrid with Renewable Energy Sources and Storage," IEEE Transaction on Smart Grid, vol. 7, no. 3, pp. 1442 – 1452, May 2016.

4. **Sushil Thale**, Rupesh Wandhare and Vivek Agarwal, "A Novel Reconfigurable Microgrid Architecture with Renewable Energy Sources and Storage," IEEE Trans. on Industry Applications, vol.51, no. 2 pp. 1805 – 1816, March-April 2016.

5. Swathy Pillai and **Sushil Thale**, "Design and Implementation of a Three Phase Inverter for Renewable Energy Source with Unified Control Strategy," Energy Procedia, Elsevier, vol. 90, December 2016, pp 673-680.

6. **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

Conference Publications Calender Year 2016

1. Shreyashi De, **Bindu S.** "Design and Implementation of DSP based Unipolar Solid-State Marx Generator" ICIIECS'16 , March 17-18, 2016, Karpagam.

2. RashmiChaugule, **Bindu S**. and RuchiHarchandani "Design and Hardware Implementation of Two Stage Solid State Bipolar Marx Generator" RTEICT-2016. 2016 IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT), 20-21 May, 2016.

3. Rashmi Chougle, **Ruchi Harchandani, Bindu S**. "Design and Simulation of 15 KV, 15 Stage Solid State Bipolar Marx Generator" ICRTCCS, International Conference Proceedings, 8-9 Jan 2016.

4. Rachit Pradhan, Martin Chirayath and **Sushil Thale**, "Coordinated Control Strategy for a DC Microgrid with Low Bandwidth Communication," Accepted at IEEE International Conference on Power Electronics, Drives And Energy Systems (PEDES2016), 14-17 December 2016, Trivandrum, Kerala, India.

5. **Mini Rajeev** and V. Agarwal, "Closed loop Control of Novel Transformer-less Inverter Topology for Single Phase Grid Connected Photovoltaic system," IEEE PECI 2016, Illinois, pp.1-7,Feb.2016.

6. **Mini Rajeev** and Vivek Agarwal, "Current Source Inverter with reduced leakage current for Transformer-less Grid -PV interface", presented at the 7th Power India Int. Conference IEEE PIICON 2016, Bikaner,25-27, Nov. 2016.

7. NereusFernandes, **Bindu R.,**Sincy George, "Control of switched reluctance generator in wind energy system," International Conference on Green Engineering and Technologies (IC-GET), IEEE Xplore, Nov 2016.

8. M Mane, **M.K. Namboothiripad**,"Current harmonics Reduction using sliding Mode Control Based Shunt Active Power Filter", 10th International Conference on Intelligent Systems and Control (ISCO), 2016 Coimbatore vol.01, pp.93-98.

9. **Mahendra Rane**, and S. Wagh, "Adaptive Reference Power Algorithm for Power Sharing between Inverters under Varying Source Condition," in 6th IEEE International Conference on Power Systems (ICPS 2016), IIT Delhi, New Delhi, India during March 4-6, 2016.

10. M Parimi, M Monika**, M. Rane**, S Wagh, and A Stankovic, "Dynamic Phasor-based Small-Signal Stability Analysis and Control of Solid State Transformer," in 6th IEEE International Conference on Power Systems (ICPS 2016), IIT Delhi, New Delhi, India during March 4-6, 2016.

11. Shilpa Varaskar, **Divya M.**, "Interleaved Buck Converter with Low Output Current Ripple using Model Predictive Algorithm", IEEE sponsored International Conference, ICIIECS-2016 Karpagam College of Engineering, Coimbatore, March 2016, pp. 492-496, ISBN: 978-1-4673-8207-6.

12. MeghaS.Pillai, **Sreedevi S. Nair** "Closed Loop Sped Control of PMBLDC motor using Artificial Neural Networks" Published at the Proceedings of the IEEE Sponsored International Conference on Innovations in Information, Embedded and Communication Systems, ICIIECS-2016.

13. Prajakta Pawaskar, Pradeep Chawande and **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.

14. Ashish Nilegekar and **Rashmi Kale**"Design and Development of Electric Vehicle Battery Charging using MIMO Boost Converter,"IEEE Sponsored 3rd International Conference on Innovationsin Information,EmbeddedandCommunication SystemsICIIECS16, March17-18,2016, Pg.177-182.

15. Ramkumar Maurya, **DivyaSajeesh, Poornima Rao**, "Utility System Unbalance in Single phase electric Traction-A Review" International conference on Global Technology Initiatives, Mumbai, 29-30 March 2016.

16. **Harshada C. B.,** Pranav R, PranaliM.,Pooja J., Apurva B., Amol K., "Solid State Marx Generator with Anti-parallel capacitor configuration using Arduino", International Conference on Automation control and Dynamic Optimization Techniques (ICACDOT 2016), I2IT, Pune, Sept. 2016.

17. Dinesh Bhujade, **Rajendra Soni**, "Direct Torque Control of Three Phase Induction Motor Using Space Vector Modulation Technique", ICIIECS, 2016.

Journal Publications Calender Year 2017

1. **Poornima Rao, DivyaSajeesh**"Power Generation using Solar Roof Top System-a case study" in IJEECS, volume6, Issue 10, Oct 2017, ISSN2348-117X

2. F. Khan, **Mini Rajeev**, "A Multi-Port Half Bridge DC-DC Converter for PV Application", Int. Journal of Electrical Electronics & Computer Science Engineering Volume 4, Issue 6, Dec.2017.

3. **Seema Jadhav**, "Design and Implementation of Maximum Power Point Tracking system for Solar PV Panels", International Journal of Innovative and Emerging Research in Engineering (IJIERE) ISSN-2394-3343, Vol-4, Issue-4, April-2017.

Conference Publications Calender Year 2017

1. Rupali Shah,**Bindu S.**"A DC source of Current-fed Cockcroft-Walton Multiplier with High Gain DC-DC Converter"ICNTE-2017, Jan 13-14, 2017, Mumbai.

2. **Harshada, Bindu S.**, Sincy George, Meera S, P C Saroj "Performance Analysis of Solid State Marx generator- A Comparative Study of Self Driven Gate Driver Circuit with Conventional Driver" IEEE International Conference on Recent Trends in Electronics Information Communication Technology(RTEICT), May19th to 20th 2017, India.

3. Ruchi Singh**, Bindu S.**, Sincy George, Meera S, P C Saroj "Issues and Mitigation of High Voltage Isolation in Solid State Marx Genrator" IEEE International Conference on Recent Trends in Electronics Information Communication Technology(RTEICT), May19th to 20th 2017, India.

4. Neelam Pinchari, **Dr Bindu S.** "Performance analysis of Bipolar Marx Generator Topologies with input switch charging and Inductive charging method" IEEE &CSI sponsored ICISIM-2017, Oct 5th and 6th,Aurangabad, Maharashtra, India.

5. NeelamPinchari, Ruchi Singh, **Bindu S.** "Analysis and Comparative Study of various Charging Methods Implemented for Solid State Marx Generator " (ICAER 2017) IIT Bombay, Powai, Mumbai 12-14 December, 2017.

6. Arvind H. Kadam, Keerthi Unni and **Sushil S. Thale**, "Control Scheme for Seamless Operating Mode Transfer of AC Microgrid," 5th IEEE International conference on Smart Energy Grid Engineering (SEGE2017), Oshawa, Canada, August 14-17, 2017.

7. Chanchal Patil, **Sushil S. Thale**, ShrishellMuchande and Arvind H. Kadam, "A Novel Protection Scheme for DC Microgrid with Hierarchical Control," 5th IEEE International conference on Smart Energy Grid Engineering (SEGE2017), Oshawa, Canada, August 14-17, 2017.

8. Keerthi Unni and **Sushil Thale**, "Precision Agriculture through ICT and Data Ecosystem: An opportunity for Digital Transformation," 60th Annual IETE Convention- 2017, Kochi, Kerala, 16th - 18th Sept. 2017.

9. **Bindu R.** and **Sushil Thale**, "Sizing of Hybrid Energy Storage System and Propulsion Unit for Electric Vehicle," 2nd IEEE International Transportation Electrification Conference-India (ITEC India 2017), Pune, India, 13-15th Dec. 2017.

10. **Bindu R.,** Sujata Patil and **Sushil Thale**, "Design and Control of Power Conversion System for Electric Vehicle Application," IEEE International(Biennial) Conference on Technological Advancements in Power and Energy (TAP Energy 2017), Amrita School of Engineering, Amritapuri, Amrita Vishwa Vidyapeetham, Amrita University, Kollam, Kerala, India, December 21-23, 2017.

11. **Sushil Thale**, Uma L., Arnab Panja, Roshal Fernandes, ShamliJondhale and Pierson D'souza, "A Novel Configurable Signal Acquisition System for Multiple Bio-signal Measurements: Assistive Technology for Home Rehabilitation," IEEE, International(Biennial) Conference on Technological Advancements in Power and Energy (TAP Energy 2017), Amrita School of Engineering, Amritapuri, Amrita Vishwa Vidyapeetham, Amrita University, Kollam, Kerala, India, December 21-23, 2017.

12. Swathy Pillai, **Sushil Thale** and Akshay Purohit, "Unbalanced Voltage Mitigation with Reactive Power Control of Grid-tied Solar PV System," 6th International Conference on Advances in Energy Research 2017, IIT Bombay, Mumbai, India, December 12-14, 2017.

13. Ram kumar L Maurya, **Mini Rajeev**, "Implementation of multilevel DC-link inverter for standalone application", Int. conference, ICNTE-2017, Fr.C.R.I.T.,Vashi, Jan 2017.

14. Shahbaz G. Shaikh and **Mini Rajeev**, "Active Power Decoupling method using active buffer in a single phase Photovoltaic (PV) inverter", International Conference, EIT- 2017, New Delhi, June 2017.

15. **Mini Rajeev** and Vivek Agarwal, "Realization of a novel transformer-less grid-PV interfaced inverter", IEEE Int. conference, CCUBE-2017, Bangalore,15-17, Dec.2017.

16. Nereus Fernandes, **R. Bindu**, "Maximum power point tracking of wind turbine using switched reluctance generator," International Conference on Nascent Technologies in Engineering (ICNTE), IEEE Xplore, 2017.

17. Afroz Abdul Kalam Khan, **Divya M.**, "Random Modulation Schemes for Industrial Drives", IEEE sponsored International Conference ICNTE-2017 Fr.C.Rodrigues Institute of Technology, Vashi, Jan 2017, pp.34, ISBN: 978-1-5090-2794-1,

18. Akshay Jagtap, **Divya M.**, Pranav Deshpande, Chinmay Dighe, PrathameshKamble, Shardul Singh, "DSP Based Standby Power Loss Controller", International Conference ICATE-2017, Datta Meghe College of Engineering, Airoli, Aug 2017, ISBN: 978-81-933746-5-8.

19. **Divya M.,** "Enhancing Power System Learning Experience using Simulations", International Conference ICIRTE-2017,PadmabhushanVasantdata Patil Pratishthan's College of Engineering, Mumbai, Oct 2017.

20. Anant Narkhede, Brayan Fernandes, Dattatray Honyalkar, Chirag Raote, **Divya M.,** "DC Emulation of Three Bus Transmission System", IEEE sponsored International Conference, tapEnergy-2017, Amrita Vishwa Vidyapeetham, Kollam, December 2017, ISBN: 978-1-5386-4022-7.

21. Mrudul A Mawlikar, **Sreedevi S. Nair**, "A Comparative Analysis of Z Source Inverter and DC-DC converter fed VSI",International Conference on Nascent Technologies, ICNTE, 2017, Published in IEEE Explorer.

22. **Sreedevi S Nair**, MrudulMawlikar, "A Comparative Analysis of Shoot Through Control Schemes for Z-Source Inverter", IEEE Sponsored International Conference on Electrical, Instrumentation and Communication Engineering, 27th to 28th April 2017.Published in IEEE Explorer.

23. **Sreedevi S Nair,** "Design and Implementation of a PMBLDC motor using Artificial Neural Network" Published at the Proceedings of the International Conference in Industrial Engineering, ICIE,SVNIT, Dec 23,2017.

24. **RuchiHarchandani**, PramilaGorade "Pulse Forming network for Marx generator with Boosting Operation" RTEICT 2017 International Conference proceedings, 19-20 May 2017.

25. HarshadaGawde, **RuchiHarchandani**"Comparison of Pulse forming Networks for Marx Generator" IEEE Xplore, IEEE International Conference on Nacent Technologies in Engineering, ICNTE 2017, Jan 27-28, 2017.

26. Felix Keettikkal, **DivyaSajeesh, Poornima Rao**, Shashank Hande, Ganesh Dakave Tushar Kute, Akshay Mahajan, R.D.Kulkarni "Generation of Heat on Fuel rod by using Induction Heating", International Conference on Nascent Technologies in Engineering field, Mumbai, January 2017.

27. **Mahendra Rane**, S. Wagh, "Stability Enhancement of Transformered PV System using Inrush Mitigation Techniques," in 49th North American Power Symposium (NAPS 2017), West Virginia University, WV, USA, during September 19-21, 2017.

28. Yutika Chaudhari, **Mahendra Rane**, "Compensation of Mismatch in PV Characteristics Using DC-DC Converter," in International Conference on Power and Embedded drive control ICPEDC2017, SSN College Chennai during March 16-18, 2017.

29. Maitreyee D, **M.K.Namboothiripad**, "A Constant Frequency Second Order Sliding Mode Controller for Buck Converter", 2017 IEEE International Conference on Electrical, Computer and Communication Technologies, IEEE ICECCT 2017, held at SVS College of Engineering, Coimbatore, Tamil Nadu, India, February 2017.

30. M Mane, **M.K.Namboothiripad**,"PWM based sliding mode controller for shunt active power filter", International Conference on Nascent Technologies in Engineering (ICNTE), pp. 1-6, February 2017.

31. Akshay Jagtap, **Divya M.,** Pranav Deshpande, Chinmay Dighe, PrathameshKamble, Shardul Singh, "DSP Based Standby Power Loss Controller", International Journal of Electronics, Electrical and Computational System IJEECS, Volume 6, Issue 4 April 2017, pp.119-124, ISSN: 2348-117X.

32. **Ruchi Harchandani,** Pramila Gorade "Simulation of Three Stage PFN based Marx Generator with Boosting Operation" FEAST 2018 International Conference on Frontiers in Engineering, Applied Sciences and Technology, April 27- 28, 2017.

33. Harshada Gawde, **Ruchi Harchandani "**Pulse Forming Network with Optimized Pulse Power and Rise" IEEE 2017 International Conference on Advances in Computing, Communication and Control (ICAC3'17) December 1-2, 2018.

34. **Seema Jadhav**, "Impacts of faults on the efficiency of Squirrel cage Induction motor", ICNTE-2017, Conference Proceedings in IEEE explorer, 27-28 Jan 2017.

35. **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.

36. Chaitanya Wadke and **Rashmi Kale**,"Electric Vehicle Multiple Input Bidirectional Charge Controller System,"4th International Conference on Innovations and Research in Technology and Engineering PVPPCOE,October 26-27,2017.

37. Ashish Nilegekar and **Rashmi Kale**,"Implementation of Multiple Input and Multiple Output Boost Converter for Electric Vehicle,"2nd Biennial International Conference on Nascent Technologies in Engineering,ICNTE-2017,January28,2017.

38. MaitreyaVaze, Saikiran Chari, Abhishek Bist ,AkshayTawade, **Harshada Bhosale**," Head Motion Controlled Electric Wheelchair using PIC Microcontroller", 4th International conference on Science, Technology & Management (ICSTM-2017), Nov 2017.

Journal Publications Calender Year 2018

1. **Mahendra Rane**, SushamaWagh, "Impact Analysis of PV-Integrated Grid Using Time-Scale Modelling", International Review on Modelling and Simulations (I.R.E.M.O.S.), Vol. 11, N. 5, October 2018

2. M. Monika, **M. 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 168 (2019): 305-312.

Conference publications Calender Year 2018

1. Dipti D Patil, **Bindu S.** "Real time protection technique for DC micro grid using local measurements" 2018 IEEE 12th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG 2018).
2. M.Kiruthika, **BinduS.** "Performance Analysis of a Distance Relay for Zone Identification" 2nd IEEE International conference on Power Electronics, Intelligent Control and Energy systems (ICPEICES) held on Oct.22-24, 2018.

3. M.Kiruthika,**BinduS**. "Fault Identification and Zone Protection in Transmission Line Using Phasor Measurement Units" IEEE International conferenceon New Trends in Engineering & Technology(ICNTET) held on Sept 7-8 2018.

4. Mr.Totre, **BinduS.**"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.

5. Mr. Totre, **BinduS**. "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.

6. Sujata Patil, **Bindu R., SushilThale**, Paper titled "Electric Vehicle Power Conditioner with Battery-Ultracapacitor Hybrid Energy Storage System" has been accepted for presentation in IEEE INDICON 2018 to be held at Amrita Vishwa Vidyapeetham, Coimbatore, India from 16-18 December 2018 in the TRACK: Power Electronics and Drives.

7. S. Salvi, A. Antony, A. Parab, T. Pokale and **Mini Rajeev**, "Renewable Energy Application of Push Pull Converter", all India seminar on Recent Trends in Renewable Energy Application &Research, The Institution of Engineers (India), Gujarat State Centre,16-17th Feb.2018.

8. **Mini Rajeev**, Vivek Agarwal, "Low Voltage Ride-Through Capability of a Novel Grid Connected Inverter Suitable for Transformer-less solar PV grid interface",8th IEEE Int. conference IICPE-2018, MNIT, Jaipur,13-15th Dec.2018.

9. A case study on grid integrated solar roof top PV system at by Yash Ajgaoankar, Mayuri Bhirud, **Poornima Rao** 5th International conference on sustainability and management practices(ICSMS2018)

10. Maitreyee D, **M.K. Namboothiripad** , "DSP Based Second Order Sliding Mode Controller for Buck Converter", in 3rd IEEE International Conference on Convergence in Technology 2018, Pune, India, held on 6-8 April 2018.

11. Samuel Jadhav, Nigel Goveas, AkshayKrishnapurkar, Neethi Elizabeth, **Divya M.**, "Transient Stability Studies using SMIB Emulator", International Conference on Frontiers in Engineering, Applied Sciences and Technology, NIT, Trichy, April 2018, pp.145-152, ISBN: 978-81-908388-6-3.

12. **Divya M.,** "Solving Travelling Salesman Problem Using Ant Systems: A Programmer's Approach", National Conference on Recent Advances in Mathematics and its Applications, NIT Rourkela, Dec 2018, Book of Abstracts, pp.32,

13. **Seema Jadhav**, Neha Devdas, Shakila Nisar, Vaibhav Bajpai, "Design and Implementation of Bidirectional DC-DC converter for Battery Charging and Discharging Application", International Conference on Global Technology and Initiatives (ICGTI) at Rizvi college, 30th April 2018.

14. Mohit Patil, SharunShibi, Pranav Kulkarni, Mohit Patle**, Rashmi Kale** "Implementation of Microcontroller Based Weather Monitoring system"National Conference on Wave Mechanics and Vibrations-2018,November26-28,2018.

15. **Rashmi Kale**"Effective Two Input Two Output Plugin Charging Method for Hybrid Vehicle Technology"FEAST 2018 International Conference on Frontiers in Engineering, Applied Sciences and Technology,NIT Trichy,April 27th- 28th, 2018.

16. Prathamesh M., Moncy B., Abhilash R., Vibhu G., **Harshada C. B.,** "Design and Simulation of Active Shunt Filter for Induction Motor Drives."2nd International Conference on Frontiers in Engineering,Applied Sciences and Technology (FEAST 2018), April 27-28,2018.

Journal Publications Calender Year2019

Department of Electrical Engineering

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. Shrishell Muchande, Arvind Kadam, Keerthi Unni and **Sushil Thale**, "Design and Implementation of a Direct Torque Control Space Vector Modulated Three Phase Induction Motor Drive," Springer Verilag, Advances in Computing, Communication, and Control, vol. 361 of the series Communications in Computer and Information Science, pp 659-672.

Conference Publications Calender Year 2019

1. Daniel Dsa, Uma L, **Bindu S**. "Performance Comparison of Two-Level Voltage Source Converter with Sinusoidal PWM and Space Vector PWM for HVDC application" ICNTE 2019, January 2019.

2. Saurabh Patil, **Mahendra Rane, Bindu S.** "Issues with High Voltage Measurement and its Mitigation "2019 4th International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT-2019), MAY 17th & 18th 2019.

3. Abhishek D Chalwadi, M.Kiruthika, **BinduS.** , "Phasor Measurement Unit based Impedance Relay: A Case Study" 4th International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT-2019), May 17th & 18th 2019.

4. 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.

5. 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.

6. Mini Rajeev, Divya S., "Harmonic Compensation by Transformer-less Grid- tied PV inverter using Conservative Power Theory",5th IEEE Int. conference for Convergence in Technology, I2CT2019, Pune, 29th-31st Mar.2019

7. Omkar Patkar, **Mini Rajeev**, "A Single-Phase Inverter with Improved Gain Suitable for Transformer-Less PV Grid Interface", International. Conference, ICATE-2019, DMCE, Navi-Mumbai, 4-5th April 2019.

8. OmkarPatkar, **Mini Rajeev**, "Experimental Validation of a Transformer-less Inverter with improved gain for Grid-PV Interface", accepted for presentation, NPEC-2019, NIT Trichi,13-15th Dec. 2019.

9. Pratik Raut, Sourabh Shilke, **Poornima Rao,** "A case study on grid integrated Microgrid system", at International conference on sustainability and management practices(ICSMS2019).

10. Mayuri Bhirud, Yash Ajgaonkar, **Poornima Rao**, "Design of standalone solar PV system using MPPT controller & self-cleaning Dual axis trackers", at International Conference on advance computing and communication systems(ICACCS-2019)

11. Mayuri Bhirud, Yash Ajgaonkar, **Poornima Rao**, "Top Down approach in design and simulation of grid integrated solar roof top PV system", at international conference on Nacent Technologies in Engineering(ICNTE2019)

12. Soham Chaudhari, Saurabh Killekar, Aishwarya Mahadik, Nair Meerakrishna, **Divya M**., "Unit Commitment Problem Using Dynamic Programming", IEEE sponsored International Conference ICNTE-2019, Fr.C.Rodrigues Institute of Technology, Vashi, Jan 2019.

13. Nikhil Sarode, **Divya M**., "Active Battery Balancing using Ćuk Converter", National Conference on Renewable Energy and Sustainable Environment NCRESE-2019, NIT Kurukshetra, Aug 2019.

14. Mrudul A Mawlikar, **Sreedevi S Nair**, "Design and Implementation of Z-source Inverter using SBC" Published in Asian Journal for Convergence in Technology, Volume IV, Issue II

15. **Sreedevi S Nair**, AnvayKokate, HrishikeshKhandagale, Jersan George, ArnodKoli, "Modeling and Simulation of StandAlone Wind Energy Conversion System",IEEE Sponsored International Conference on Trends in Electronics and Informatics ICOEI 2019, 23rdto 24th April, 2019.Published in IEEE Explorer

16. AnuradhaJadhav, **Sreedevi S Nair** "Battery Management system using Fuzzy Logic Controller" Published in Journal of Physics: Conference series, Volume 1172, Conference 1.

17. Mohit Patil, SharunShibi, Pranav Kulkarni, Mohit Patle, **Rashmi Kale**, "Review on Online Monitoring of Electrical Machine Using IoT"3rd Biennial International Conference on Nascent Technologies in Engineering,ICNTE-2019,January4-5,2019.

18. 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, RTEICT-2019, May 2019.