

Agnel Charities

Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai, Maharashtra

Paper/Journal Publications

Calendar Year 2009-2024

Conference Papers:

1. **Ruchi Harchandani** and Mini Rajeev, “Comparative study of Boost and Buck converter topologies used for solar photovoltaic stand-alone systems”, National conference on Non-conventional energy sources for Rural Development, P.G.M. C.O.E. Pune. 31st Jan 2009
2. **Ruchi Harchandani** and Mini Rajeev, “Study of replacing CFL by LED for solar powered street light in stand-alone system”, National conference on Nascent Technologies in engineering, NCNTE 2010, FCRIT Vashi, pp. 75-79. 26-27th February, 2010
3. **Ruchi Harchandani** and Bindu R, “Automation of motors used in cement industry using PLC and SCADA”, National conference on 'Advances in Engineering Technology and Management, Zenith
4. **Ruchi Harchandani** and Bindu R, “Automation of Raw Mill Drive in Cement Industry Using PLC and SCADA”, International conference on 'Recent Advances and Challenges in Engineering and Management'
5. **Ruchi Harchandani**, Bindu R, “Efficient Speed Control using Variable Frequency Drive in Cement Industry- A Review” National conference OPTEST-2012, 20-21 April, 2012
6. Rashmi Chougale, **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.
7. **Ruchi Harchandani**, Pramila Gorade “Pulse Forming network for Marx generator with Boosting Operation” RTEICT 2017 International Conference proceedings, 19-20 May 2017. DOI: [10.1109/RTEICT.2017.8256903](https://doi.org/10.1109/RTEICT.2017.8256903)
8. Harshada Gawde, **Ruchi Harchandani** “Comparison of Pulse forming Networks for Marx Generator” IEEE Xplore, IEEE International Conference on Nascent Technologies in Engineering, ICNTE 2017, Jan 27-28, 2017 DOI: [10.1109/ICNTE.2017.7947939](https://doi.org/10.1109/ICNTE.2017.7947939)
9. 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 DOI: [10.1109/ICAC3.2017.8318762](https://doi.org/10.1109/ICAC3.2017.8318762)
10. **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, 2018
11. Sutej Mota, Parth Parab, Avadhut Gopale Shekhar Prasad, **Ruchi Harchandani**, “Generation of DC High Voltage Pulse for Hipot Testing using PFN based Marx Generator” International Conference on Computing and Control Systems ICICCS 2019 (15-17 May 2019)
12. Aqsa Shaikh, **Ruchi Harchandani** “Implementation of Ultra-Wide Band Marx Generator with Improved PFN Topology for Antenna Load” 8th International Conference on Power Systems “Transition Towards Sustainable, Smart and Flexible Grids” (20th – 22nd December 2019)
13. Seema Jadhav, **Ruchi Harchandani** “Performance Characteristics Analysis for Solar PV Module” IEEE Xplore, IEEE International Conference on Nascent Technologies in Engineering, ICNTE 2023, Jan 20-21, 2023

14. Rupali Saha, Bindu S, **Ruchi Harchandani** “Cockcroft-Walton Voltage Multiplier based High Gain DC-DC Converter as DC Source for Impulse Load” 2023 World Conference on Communication & Computing (WCONF), IEEE Xplore, DOI: 10.1109/WCONF58270.2023.10235205

List of Journal Papers:

1. **Ruchi Harchandani** and 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.
2. **Ruchi Harchandani** and Rashmi Kale, “Selection of Effective mitigation method for inrush current in power transformer”, IJATES, Vol 2, issue 5, ISSN- 2348-7550, May ‘14
3. **Ruchi Harchandani**, 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
4. Seema Jadhav, **Ruchi Harchandani** “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
5. Rashmi Chougale, **Ruchi Harchandani**, Bindu S “Design and Hardware Implementation of Two Stage Solid State Bipolar Marx Generator” 2016 IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT), 20-21 May, 2016. DOI: 10.1109/RTEICT.2016.7807910
6. Bhosale Harshada, Kale Rashmi, **Harchandani Ruchi** “Significant Role, Design and Stability Analysis of Flyback Converter for Renewable Energy Source” International Conference on Advances in Computing, Communication and Control (ICAC3) 2019 DOI: 10.1109/ICAC347590.2019.9036790
7. Aditya Tare, Amol Pednekar, Nisha Thite, Winson Nadar, **Ruchi Harchandani** “Design of PFN Based Bipolar Marx Generator” International Conference on Advancement in Science, Technology and Management 23rd and 24th December, 2021, S.B. Jain Institute of Technology, Management and Research, Nagpur (India) (Publication in Samridhhi:JPSET, a UGC listed Journal)
8. Anand Unnikrishnan, Anto Sen, Astitva Anant, Ahmed Uzair, **Ruchi Harchandani** “Keypad and Smartphone based Digital Door Lock” International Journal of Applied Engineering and Technology Vol. 5 No. 4 (December, 2023)