



Agnel Charities

Fr. C. Rodrigues Institute of Technology, Vashi

(An Autonomous Institute & Permanently Affiliated to University of Mumbai)

Department of Electrical Engineering

Academic Year: 2024-25

Journal Publications

1. Namboothiripad Mini K, Vadhyan Gayathri, "Efficient implementation of artificial neural networks on FPGAs using high-level synthesis and parallelism", International Journal of Advanced Technology and Engineering Exploration, Vol 11(119) ISSN (Print): 2394-5443 ISSN (Online): 2394-7454.
DOI/Weblink: <http://dx.doi.org/10.19101/IJATEE.2023.10102538>
2. Dipti Patil, Bindu S, Sushil Thale, "Arc Fault Detection and Classification in DC Microgrid Using Deep Neural Network", SSRG International Journal of Electronics and Communication Engineering, ISSN: 2348-8549, Volume 11 Issue 8, 131-139, August 2024 © 2024 Seventh Sense Research Group®,
DOI/Weblink: <https://doi.org/10.14445/23488549/IJECE-V11I8P114>
3. Dr. Mini K Namboothiripad, "Optimizing State Space Integral Controllers for DC-DC Buck Converters Using FPGA-Based Genetic Algorithms", International Journal of Computing and Digital System, ISSN: 2535-9886 (Print) / 2210-142X (Online), 2025, VOL. 18, NO. 1, 1-11.
DOI/Weblink: <https://journal.uob.edu.bh/handle/123456789/5732>

Conference Publications

1. Swayash Gaikwad, Om Malunekar, Rohit Mandve, Vaibhavi Mhatre, Mini Namboothiripad, "DC Motor Speed Control of Surface Operated Rover", 2024 Asia Pacific Conference on Innovation in Technology (APCIT).
DOI/Weblink: <https://doi.org/10.1109/APCIT62007.2024.10673572>
2. S. Khetle, G. Jadhav, B. K. Sudan, T. Gajare and M. Rajeev, "Closed Loop operation of Transformer-less Inverter in Voltage and Current Control mode," 2024 IEEE 1st International Conference on Green Industrial Electronics and Sustainable Technologies (GIEST), Imphal, India, 2024, pp. 1-7.
DOI/Weblink: <http://doi.org/10.1109/GIEST62955.2024.10960198>
3. S. Pawar, Y. Prajapati and M. Rajeev, "Power Flow and Performance Analysis of Three Port Converter in Street Light," 2024 IEEE 1st International Conference on Green Industrial Electronics and Sustainable Technologies (GIEST), Imphal, India, 2024, pp. 1-6.
DOI/Weblink: <http://doi.org/10.1109/GIEST62955.2024.10960083>
4. Aniruddha Ray and Bindu S., "Performance Assessment of Distance Protection in UPFC-Compensated Transmission Networks with Integrated Converter-Interfaced Renewable Energy Plants," 2024 IEEE 1st International Conference on Green Industrial Electronics and Sustainable Technologies (GIEST), Imphal, India, 2024, pp. 1-6.
DOI/Weblink: <http://doi.org/10.1109/GIEST62955.2024.10959819>
5. Rajendra Soni, Bindu R, Divya Sajeesh, and Bindu S, "Application of Python-based Machine Learning for Transformer Performance and Transmission Line Fault Prediction," 2024



Agnel Charities

Fr. C. Rodrigues Institute of Technology, Vashi

(An Autonomous Institute & Permanently Affiliated to University of Mumbai)

Department of Electrical Engineering

International Conference on Artificial Intelligence and Quantum Computation-Based Sensor Application (ICAIQSA), Nagpur, India, 2024, pp. 1-6.

DOI/Weblink: <http://doi.org/10.1109/ICAIQSA64000.2024.10882231>

6. Devendra S. Patole and Bindu S, "Anticipating Cleaning Schedules for 22 KV Porcelain Insulators through Leakage Current Analysis with Machine Learning," 2024 Third International Conference on Electrical, Electronics, Information and Communication Technologies (ICEEICT), Trichirappalli, India, 2024, pp. 1-5.

DOI/Weblink: <http://doi.org/10.1109/ICEEICT61591.2024.10718549>

7. Seema Jadhav and Bindu S, "Assessment in Distribution System Integrated with Distributed Generation," 2025 2nd International Conference on Trends in Engineering Systems and Technologies (ICTEST), Ernakulam, India, 2025, pp. 1-4.

DOI/Weblink: <http://doi.org/10.1109/ICTEST64710.2025.11042510>

8. Mahendra Rane and Abhishek Shiwalkar, "Hardware Implementation of V/F Control for Solar Water Pumping System," 2024 IEEE 1st International Conference on Green Industrial Electronics and Sustainable Technologies (GIEST), Imphal, India, 2024, pp. 1-6.

DOI/Weblink: <http://doi.org/10.1109/GIEST62955.2024.10960225>

9. Dr. Mahendra Rane, Abhishek Shiwalkar, "Dynamic Phasor Modelling of Z-Source converter", 3rd International Conference on Advancement in Science, Technology, and Management Nagpur (ICASTM-2025), March 2025.



Department of Electrical Engineering

Academic year 2023-24

Journal Publications

1. M. Kiruthika and Bindu S., " A Security enabled real time fault detection and classification of power system conditions ", International Journal of Advanced Technology and Engineering Exploration (IJATEE), **ISSN (Print):2394-5443 ISSN (Online):2394-7454, Volume-10 Issue-107,2023,**
<https://accentsjournals.org/paperInfo.php?journalPaperId=1587&countPaper=623>.
2. Etikala Raja Vikram Reddy, Dr. Sushil Thale ,”A Novel Efficient Dual-Gate Mixed Dilated Convolution Network for Multi-Scale Pedestrian Detection”, Engineering Technology and Applied Science Research (ETASR), Volume 13, Issue 6, Pages 11973-11979, December 2023, <https://doi.org/10.48084/etasr.6340>.
3. Anand Unnikrishnan, Anto Sen, Astitva Anant, Ahmed Uzair, Ruchi Harchandani , “Keypad and Smart Phone Based Digital Door Lock”, International Journal of Applied Engineering and Technology (IJAET), Volume 5 No 4, December 2023, ISSN: 2633-4828, <https://romanpub.com/resources/ijaet20v5-4-2023-75.pdf>.
4. Mini K Namboothiripad, “Analyzing the Impact of Discretization Techniques on Real Time Simulation of DC Servo Motor using FPGA”, International Journal of Computing and Digital Systems (IJCDS), Volume 15, Issue 1, ISSN: 2210-142X, Date: 15-03-2024, <http://dx.doi.org/10.12785/ijcds/1501103>.

Conference Publications

1. Sreedevi S Nair, Dr, Mini Rajeev, “A Novel High Gain Non-Isolated Three-port Converter for Stand-Alone PV Applications”, International Conference on Computer, Electronics and Electrical Engineering and their Applications.
2. Rishabh Mhatre, Komal Patil, Shivani Sharma, Dr. Mini Rajeev, “Power Factor Improvement using PWM Rectifier in Shrink Fitting”, 2023 IEEE 2nd International Conference on Industrial Electronics: Developments & Applications (ICIDeA), 29-30 September 2023, <https://doi.org/10.1109/ICIDeA59866.2023.10295198>.
3. Aniruddha Ray, Dr. Bindu S, “Issues and Solution of Distance Protection of Grid Integrated with Solar PV Plants”, **2023 IEEE 2nd International Conference on Industrial Electronics: Developments & Applications (ICIDeA), 29-30 Sept. 2023,**
<https://doi.org/10.1109/ICIDeA59866.2023.10295210>.



Department of Electrical Engineering

4. Sarthak Varma, Abhishek Shiwalkar, “Non-Contact Voltage with Electrostatic Polarity Detector”, [2023 World Conference on Communication & Computing \(WCONF\)](https://doi.org/10.1109/WCONF58270.2023.10235014), 14-16 July 2023, <https://doi.org/10.1109/WCONF58270.2023.10235014>.
5. Dr. Mahendra Rane, “Dynamic Phasor Modelling of Quad Boost Converter”, [2023 World Conference on Communication & Computing \(WCONF\)](https://doi.org/10.1109/WCONF58270.2023.10235123), 14-16 July 2023, <https://doi.org/10.1109/WCONF58270.2023.10235123>.
6. 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 \(WCONF\)](https://doi.org/10.1109/WCONF58270.2023.10235205), 14-16 July 2023, <https://doi.org/10.1109/WCONF58270.2023.10235205>.
7. Saurabh Kaduskar, Anubhav Panda, Pratim Parab, Mohit Rajput, Bindu R, “Performance Analysis of Outer Rotor Induction Hub Motors for Electric Vehicles”, [2024 3rd International conference on Power Electronics and IoT Applications in Renewable Energy and its Control \(PARC\)](https://doi.org/10.1109/PARC59193.2024.10486345), 23-24 February 2024, <https://doi.org/10.1109/PARC59193.2024.10486345>.
8. Saurabh Kaduskar, Anubhav Panda, Pratim Parab, Mohit Rajput, Himanshu Patil, Sarthal Varma, Bindu R, “Revolutionizing Aviation and EV Industries: Advancements in Axial Flux Motors for Electric Propulsion Systems with ANSYS Electronics”, [2024 IEEE 9th International Conference for Convergence in Technology \(I2CT\)](https://doi.org/10.1109/I2CT61223.2024.10543862), 05-07 April 2024, <https://doi.org/10.1109/I2CT61223.2024.10543862>.
9. Mahendra Rane, Abhishek Shiwalkar, Rashmi Kale, “Design and Develop Scalar Control for Solar Water Pumping System”, International Conference on Advance Technology and Management 2024.
10. Saurabh Kaduskar, Pratim Parab, Dhiraj Chaudhari, Parth Trivedi, Umar Khan, Chandresh Menon, “The SkyMedic: The Lifesaving Autonomous Ducted UAV”, [2024 IEEE 9th International Conference for Convergence in Technology \(I2CT\)](https://doi.org/10.1109/I2CT61223.2024.10543450), 05-07 April 2024, <https://doi.org/10.1109/I2CT61223.2024.10543450>.



Academic year 2022-23

Journal Publications

1. Akhilesh Mendon, Agnel Austin, Shraddha Ambilkar, Shikha Menon and Mini K Namboothiripad, "Multi-objective predictive control for three-phase three-level neutral-point clamped Inverter", International Journal of Advanced Technology and Engineering Exploration, vol. 10, issue 100, pp. 321-339, March 2023, <http://dx.doi.org/10.19101/IJATEE.2021.876453>
2. Shrisheil Muchande and Sushil Thale, "A Novel Reconfigurable Coordinated Control for Autonomous Low Voltage DC Microgrid," International Review of Electrical Engineering (I.R.E.E.), Vol. 18, No. 1, Jan – Feb 2023, ISSN- 1827- 6660, DOI: <https://doi.org/10.15866/iree.v18i1.22929>
3. Keerthi Unni and Sushil Thale, "Energy Consumption Analysis for Prediction of Battery Residual Energy in Electric Vehicles," accepted for publications in Engineering, Technology, and Applied Science Research (ETASR) Journal, to be published in May 2023, ISSN: 2241-4487 / 1792-(e-ISSN).

Conference Publications

1. S. Malpure, S. Bhivsane, S. Nair and Bindu R, "Design and Development of Toroidal Core Winding Machine with Digital Interface," 2022 International Conference on Futuristic Technologies (INCOFT), Belgaum, India, 2022, pp. 1-8, doi: 10.1109/INCOFT55651.2022.10094478.
2. Neelam S. Pinjari, Bindu S, "Analysis of a Solid-State Switch as Peaking Switch in a Solid-State Marx Generator" Second International Conference on Next Generation Intelligent Systems (ICNGIS), Kerala, India, July. 29-31, 2022
3. Ninad Totre, Bindu S "A Novel Approach for Operational Efficiency Assessment of Electrical Utilities", 5th Biennial International Conference on Nascent Technologies in Engineering, Vashi, Navi Mumbai, India, Jan 20-21, 2023
4. Mahendra Rane, Rashmi Kale, Abhishek Shiwalkar, "Stability Analysis of Quadratic Boost Converter with Different Controllers", IEEE & IAS Technically Co-Sponsored, AICTE Sponsored 5th Biennial International Conference on Nascent Technologies in Engineering (ICNTE 2023), Jan 20-21, 2023.
5. Sreedevi S. Nair, Mini Rajeev, "Exploration of Three port converters and its multidisciplinary applications", IEEE-2022 3rd Global Conference for Advancement in Technology (GCAT), IEEE Bangalore section, 7-9th October 2022.
6. E. J. Isaac and M. Rajeev, "Improved Current Source Inverter with Lesser Input Inductor for PV-Grid Interface," 2022 International Conference on Emerging Trends in Engineering and Medical Sciences (ICETEMS), Nagpur, India, 2022, pp. 97-101
7. Pooja Chavan, Kartikraj Easwaran, Hitesh Mahajan, Prathamesh Jaitpal and Mini Rajeev, "Smart Gas Stove with Inbuilt Safety Features", 5th Biennial International Conference on Nascent Technologies in Engineering (ICNTE) 2023, 20-21st Jan.2023.
8. Harsh Chaudhary, Gokul Narayanan, Khaliluddin Sarkazi, Ayush Misra, Shaikh Mohammed Owais, Seema Jadhav and Mini Rajeev, "Design and Development of a Small-Scale EMU Model with Motorman Cabin Emulation", 5th Biennial International Conference on Nascent Technologies in Engineering (ICNTE) 2023, 20-21st Jan.2023.



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

9. Rashmi Kale, "Development of Solar Powered Electric Vehicle Prototype", 7th International Conference On Production and Industrial Engineering (CPIE-2023), Dr B R Ambedkar National Institute of Technology Jalandhar-144027, India, 10-12th March 2023.
10. Seema Jadhav, Ruchi Harchandani, "Performance Characteristics Analysis for Solar PV Module", 5th Biennial International Conference on Nascent Technologies in Engineering (ICNTE) 2023, 20-21st Jan.2023.
11. Saakshi Gawande and Sushil Thale, "Design and Development of Solar Powered Phase Shifted Full Bridge Converter for EV Charger," in Proc. of International Conference on Communication Systems, Computing and IT Applications, Mumbai India, 31st March 2023- 1st April 2023.
12. Divya Sajeesh, Pranav Tonapi, Anush Malik, "Design and Analysis of Microinverter for Residential PV application", 9th International Conference on Electrical Energy Systems (ICEES 2023), Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam, Chennai, India, 23-25th March 2023.
13. E. Vikram Reddy, and Sushil Thale, "Pedestrian Detection Using YOLOv5 and Complete IoU Loss for Autonomous Driving Applications," International Conference on Paradigms of Communication, Computing and Data Analytics (PCCDA 2023), APRIL 22-23, 2023, ADGITM New Delhi.
14. Ameya Thale, Udayraj Tawde, Avinash Saruk, Shreyas Sarnaik and Sushil Thale, "Design and Development of Emulated Fuel Cell Based Hierarchical Controlled DC Microgrid System," Presented at 8th International Conference on Advances in Energy Research (ICAER 2022), IIT Bombay, Powai, Mumbai 7th -9th July 2022.



Fr. C. Rodrigues Institute of Technology

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.accentsjournals.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.



Fr. C. Rodrigues Institute of Technology

Department of Electrical Engineering

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 24th 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.



Fr. C. Rodrigues Institute of Technology

Department of Electrical Engineering

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**, Sushil Thale “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 24th April 2020.
9. M. Kiruthika, **S Bindu**, “Classification of Electrical Power System Conditions with Convolutional Neural Networks” *Engineering, Technology & Applied Science Research*, Accepted on 8th May 2020



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.
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Fr. C. Rodrigues Institute of Technology

Department of Electrical Engineering

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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
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Fr. C. Rodrigues Institute of Technology

Department of Electrical Engineering

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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
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Fr. C. Rodrigues Institute of Technology

Department of Electrical Engineering

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Fr. C. Rodrigues Institute of Technology

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Fr. C. Rodrigues Institute of Technology

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18. Akshay Jagtap **Divya M** et al, “DSP based standby Power Loss controller”, International Conference at Dutta Meghe COE, April 7-8 2017, published in IJEECS, Vol 6, Issue 4, April 2017.
19. Swathy Pillai, **Sushil Thale**, “Design and Implementation of 3-phase inverter for Renewable energy source with Unified control strategy”, 5th International conference on Advances in Energy Research, ICAER 2015, 15-17 Dec 2015 Mumbai.



Fr. C. Rodrigues Institute of Technology

Department of Electrical Engineering

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Fr. C. Rodrigues Institute of Technology

Department of Electrical Engineering

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- 9 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, 2015, PACE, A.P
- 10 Bindu R "Sensorless Vector Control of Three Phase Induction Motor", International Conference on Advances in Communication and Computing Technologies (ICACACT 2014), IEEE, 10,11 August 2015
- 11 Dr. Sincy George "A simulation analysis of MPPT algorithm in Photo voltaic system using Cuk converter", 2nd International Conference on Emerging Trends in Technology and Applied science, SAINTGITS college of Engg, Kottayam, Kerala 30th April, 1-2 May, 2015
- 12 Dr. Sincy George, "Performance comparison of converters for HVDC application", 2nd International Conference on Emerging Trends in Technology and Applied science, SAINTGITS college of Engg, Kottayam, Kerala, 30th April, 1-2 May, 2015
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- 15 Dr. Bindu S "Design and simulation of Unipolar Solid state Marx generator", Thinkquest 2nd International Conference on Contours of Digital Technology, ICCDT-2015, Mumbai 11, Oct 2015
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Fr. C. Rodrigues Institute of Technology

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- 18 Sreedevi Nair, "Simulation of PMBLDC motor using Artificial Neural Network", International conference on Industrial Engineering ICIE 2015
- 19 Mini Rajeev, "Introduction to Multilevel inverter and Comparison of switching strategies for Cascaded half bridge multilevel DC-link inverter", International conference at Rizvi College of Engineering, International Journal Of Global Technology and Initiatives (IJGTI), 29-30 March 2016
- 20 Divya M, "Interleaved Buck Converter with Low Output Current Ripple using Model Predictive Algorithm", International conference on Innovation in Information Embedded and Communication Systems (ICIIECS-16) Karpagam college of Engineering Coimbatore, 17 and 18 March 2016.
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