



MSR PROJECTS

LIVE & IEEE PROJECTS WITH PAPER PUBLICATION
INDUSTRIAL AUTOMATION TRAINING (PLC)
MATLAB TRAINING
VLSI TRAINING
ANDROID TRAINING

E-mail : msrprojectshyd@gmail.com Web: www.msprojectshyd.com
Contact : 9581 46 41 42, 8977 46 41 42

POWER SYSTEM AND POWER ELECTRONICS 2018-2019 LIST

1. An improved hierarchy and autonomous control for DC microgrid based on both model predictive and distributed droop control
2. Standalone Photovoltaic Water Pumping System Using Induction Motor Drive With Reduced Sensors
3. A SiC-based isolated DC/DC converter for high density data center applications
4. Sensorless current estimation and sharing in multiphase input-parallel output-parallel DC-DC converters
5. A sliding mode duty-ratio control with current balancing algorithm for interleaved buck converters
6. Efficiency improvement of three port high frequency transformer isolated triple active bridge converter
7. Unified Selective Harmonic Elimination for Cascaded H-Bridge Asymmetric Multilevel Inverter
8. Modified Dual Output Cuk Converter-Fed Switched Reluctance Motor Drive With Power Factor Correction
9. A digital detecting method for synchronous rectification based on dual-verification for LLC resonant converter
10. GaN based transformer-less microinverter with coupled inductor interleaved boost and half bridge voltage swing inverter

ADDRESS: #416, ANNAPURNA BLOCK, ADITYA ENCLAVE BUILDING, MITRIVANAM, HYDERABAD. Email: msrprojectshyd@gmail.com , CONTACT: 04066334142, 9581464142



11. A 5-level high efficiency low cost Hybrid Neutral Point Clamped transformerless inverter for grid connected photovoltaic application
12. A Single-Stage Capacitive AC-Link AC-AC Power Converter
13. Capacitor-less D-STATCOM for reactive power compensation
14. Voltage unbalance compensation by a grid connected inverter using virtual impedance and admittance control loops
15. Generalized SVPWM-based capacitor voltage balancing for modular multilevel converters
16. A new power flow control approach for power converters in single-phase microgrids
17. A high-frequency inverter architecture for providing variable compensation in wireless power transfer systems
18. Design of a Fuzzy PI Controller for Peak-to-Average Reduction in Output Current of LED Drivers.
19. A Novel Control System for Solar Tile Micro-Inverters
20. A Novel Switched-capacitor Multilevel Inverter Offering Modularity in Design.
21. Evaluation and Improvement of Active Stabilization Method for Matrix Converter Under Input Voltage Disturbances.
22. Stability Improvement of Microgrids Using a Novel Reduced UPFC Structure via Nonlinear Optimal Control.
23. Direct Power Control of AFE Rectifier by Line Voltage Sensorless Predictive Technique and MRAS Inductance Estimator.

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24. Improved Analysis, Design and Control for Interleaved Dual- Phase ZVS GaN-Based Totem-Pole PFC Rectifier with Coupled Inductor.
25. Discrete-time Framework for Digital Control Design in a High-frequency Dual Active Bridge Converter
26. *Design and Analysis of Full Bridge LLC Resonant Converter for Wireless Power Transfer Applications*
27. On-line and Off-line Fault Detection Techniques for Inverter Based Islanded Microgrid
28. A Very Simple Strategy for High Quality Performance of AC Machines Using Model Predictive Control.
29. A Bidirectional High-Efficiency Transformerless Converter with Common-Mode Decoupling for the Interconnection of AC and DC Grids
30. A Common-Ground Single-Phase Five-Level Transformerless Boost Inverter for Photovoltaic Applications
31. Rectifier Load Analysis for Electric Vehicle Wireless Charging System
32. Simple Active and Reactive Power Control for Applications of Single-Phase Electric Springs
33. UDE-Based Current Control Strategy for *LCCL*-Type Grid-Tied Inverters
34. A New Design Method of an LCL Filter Applied in Active DC-Traction Substations
35. Reconfiguration of NPC Multilevel Inverters to Mitigate Short Circuit Faults Using Back-to-Back Switches

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36. Dual-function PV-ECS integrated to 3P4W distribution grid using 3M-PLL control for active power transfer and power quality improvement

37. Single-Stage Switched-Capacitor Module (S3CM) Topology for Cascaded Multilevel Inverter

38. Autonomous Power Management for Interlinked AC-DC Microgrids

39. An f - P/Q Droop Control in Cascaded-Type Microgrid

40. Control of a Three-Phase Hybrid Converter for a PV Charging Station

41. Reduced carrier PWM scheme with unified logical expressions for reduced switch count multilevel inverters