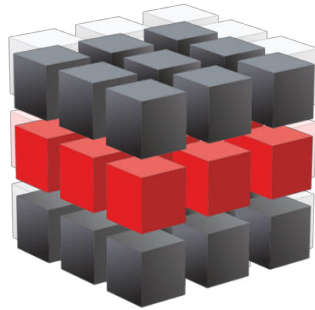




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CHENNAI – PONDICHERY



POWER ELECTRONICS & POWER SYSTEM TITLE LIST 2018-19

- 1) Analysis and design of voltage-lift technique based non-isolated boost dc–dc converter.
- 2) An Improved Hierarchy and Autonomous Control for DC Microgrid Based on both Model Predictive and Distributed Droop Control.
- 3) A SiC-based Isolated DC/DC Converter for High Density Data Center Applications.
- 4) Design Considerations of Highly-Efficient Active Clamp Flyback Converter Using GaN Power ICs.
- 5) A Phase Feed forward Based Virtual Synchronous Generator Control Scheme.
- 6) Sensorless parameter estimation and currents haring strategy in two-phase and multiphase IPOP DAB-DC–DC converters.
- 7) A Sliding Mode Duty-Ratio Control with Current Balancing Algorithm for Interleaved Buck Converters.
- 8) Detection and Prediction of Faults in Photovoltaic Arrays: A Review.
- 9) Efficiency Improvement of Three Port High Frequency Transformer Isolated Triple Active Bridge Converter.
- 10) Unified Selective Harmonic Elimination for Cascaded H-bridge Asymmetric Multilevel Inverter.
- 11) Modified Dual Output Cuk Converter fed Switched Reluctance Motor Drive with Power Factor Correction.
- 12) An Active Voltage-Doubler Rectifier Based Hybrid Resonant DC/DC Converter for Wide-Input-Range Thermo-Electric Power Generation.
- 13) A Digital Detecting Method for Synchronous Rectification Based on Dual-Verification for LLC Resonant Converter.
- 14) Frequency Regulation at a Wind Farm Using Time-Varying Inertia and Droop Controls.
- 15) Analysis, design and control of a resonant forwardflyback converter.
- 16) Ceramic capacitor controlled resonant LLC converters.
- 17) Controlling Entity ICT Reference Architecture: Distributed control architecture for distributed systems.
- 18) Improving Fast Charging Efficiency of Reconfigurable Battery Packs.
- 19) A Family of PWM Control Strategies for Single-Phase Quasi-Switched-Boost Inverter.
- 20) Single-phase bidirectional ac/dc converter for plug-in electric vehicles with reduced conduction losses.



- 21) Control of Modular Multilevel Converters Using an Overlapping Multi-Hexagon Space Vector Modulation Scheme.
- 22) GaN Based Transformer-less Microinverter with Coupled Inductor Interleaved Boost and Half Bridge Voltage Swing Inverter.
- 23) A 5-level High Efficiency Low Cost Hybrid Neutral Point Clamped Transformerless Inverter for Grid Connected Photovoltaic Application.
- 24) Stability and Improvement of LCL-filtered Inverters Using Only Grid Current Feedback Active damping for Weak Grid Applications.
- 25) A Single-Stage Capacitive AC-Link AC-AC Power Converter.
- 26) Capacitor-Less D-STATCOM for Reactive Power Compensation.
- 27) Voltage Unbalance Compensation by a Grid Connected Inverter Using Virtual Impedance and Admittance Control Loops.
- 28) High Reliability Electrical Distribution System for Industrial Facilities.
- 29) A Self-Bias Supply Scheme for the Control Circuit in Power Converter.
- 30) A Predictive Control Strategy for Mitigation of Commutation Failure in LCC-Based HVDC Systems.
- 31) Generalized SVPWM-based Capacitor Voltage Balancing for Modular Multilevel Converters.
- 32) A New Power Flow Control Approach for Power Converters in Single-phase Microgrids.
- 33) A High-Frequency Inverter Architecture for Providing Variable Compensation in Wireless Power Transfer Systems.
- 34) Design of a Fuzzy PI Controller for Peak-to-Average Reduction in Output Current of LED Drivers.
- 35) Multi-Objective Dynamic Voltage Restorer with Modified EPLL Control and Optimized PI Controller Gains.
- 36) A Novel Control System for Solar Tile Micro-Inverters.
- 37) A Novel Switched-capacitor Multilevel Inverter Offering Modularity in Design.
- 38) Optimized Modulation and Dynamic Control of Three-Phase Dual Active Bridge Converter with Variable Duty Cycles.
- 39) Coupled-inductor-inverse high step-up converter.
- 40) Evaluation and Improvement of Active Stabilization Method for Matrix Converter Under Input Voltage Disturbances.
- 41) Stability Improvement of Microgrids Using a Novel Reduced UPFC Structure via Nonlinear Optimal Control.
- 42) Direct Power Control of AFE Rectifier by Line Voltage Sensorless Predictive Technique and MRAS Inductance Estimator.



- 43) Analysing the effects due to discontinuous output-voltage ripple in a digitally current mode controlled boost converter.
- 44) Modelling the threshold voltage of p-channel enhancement-mode GaN hetero structure field-effect transistors.
- 45) Performance evaluation of duty cycle balancing in power electronics enhanced battery packs compared to conventional energy redistribution balancing.
- 46) Improved Analysis, Design and Control for Interleaved Dual-Phase ZVS GaN-Based Totem-Pole PFC Rectifier with Coupled Inductor.
- 47) Dealing with the Supplying of a Three-phase Load with Non-sinusoidal and Nonsymmetrical Voltages at Low Voltage.
- 48) Reactive Power Compensation and Resonance Damping for Three-Phase Buck-Type Dynamic Capacitor.
- 49) Discrete-time Framework for Digital Control Design in a High-frequency Dual Active Bridge Converter.
- 50) Bus Participation Factor Analysis for Harmonic Instability in Power Electronics Based Power Systems.
- 51) Unit-Minimum Least Power Point Tracking for the Optimization of Photovoltaic Differential Power Processing Systems.
- 52) Simple Boost Control of a New High Voltage Gain Z Source Inverter.
- 53) Design and Analysis of Full Bridge LLC Resonant Converter for Wireless Power Transfer Applications.
- 54) Hybrid Buck Converter Optimization and Comparison for Smart Phone Integrated Battery Chargers.
- 55) High Efficiency Capacitive Power Transfer Converter.
- 56) Design of Virtual Synchronous Generators with Enhanced Frequency Regulation and Reduced Voltage Distortions.
- 57) Input voltage sharing control scheme for input series and output series DC/DC converters using paralleled MOSFETs.
- 58) On-line and Off-line Fault Detection Techniques for Inverter Based Islanded Microgrid.
- 59) Analytical Design and Simulation for Switching Transformer in High-Voltage Applications.
- 60) Online Torque-Flux Estimation Based Nonlinear Torque and Flux Control Scheme of IPMSM Drive for Reduced Torque Ripples.
- 61) Multi-variable Optimization Methodology for Medium-frequency High-power Transformer Design Employing Steepest Descent Method.
- 62) A Very Simple Strategy for High Quality Performance of AC Machines Using Model Predictive Control.
- 63) Active Power Cycling and Condition Monitoring of IGBT Power Modules using Reflectometry.



- 64) High Frequency Electroporation for Biomedical Applications Using GaN Gate Injection Transistors.
- 65) A Bidirectional High-Efficiency Transformerless Converter with Common-Mode Decoupling for the Interconnection of AC and DC Grids.
- 66) PV System Control to Provide Active Power Reserves under Partial Shading Conditions.
- 67) Capacitor Voltage Estimation Scheme with Reduced Number of Sensors for Modular Multilevel Converters.
- 68) Investigating Impact of Emerging Medium Voltage SiC MOSFETs on Medium-Voltage High-Power Industrial Motor Drives.
- 69) A Common-Ground Single-Phase Five-Level Transformerless Boost Inverter for Photovoltaic Applications.
- 70) A Hardware Emulator for OLED Panels Applied to Lighting Systems.
- 71) Robust and fast sliding-mode control for a DC–DC current-source parallel-resonant converter.
- 72) Predictive Current Control with Modification of instantaneous Reactive Power Minimization for Direct Matrix Converter.
- 73) Optimized Demagnetizing Control of DFIG Power Converter for Reduced Thermal Stress during Symmetrical Grid Fault.
- 74) A Pulsed Power Supply Adopting Active Capacitor Converter for Low-Voltage and Low-Frequency Pulsed Load.
- 75) Research on a Time-variant Shoot-through Modulation Strategy for Quasi-Z-source Inverter.
- 76) High-Accuracy Modelling of ZVS Energy Loss in Advanced Power Transistors.

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POWER SYSTEM

- 1) Development and Analysis of a Sensitivity Matrix of a 3-phase Voltage Unbalance Factor.
- 2) Frequency Regulation at a Wind Farm Using Time-Varying Inertia and Droop Controls.
- 3) Online Multi-Period Power Dispatch with Renewable Uncertainty and Storage: A Two-Parameter Homotopy-Enhanced Methodology.
- 4) Time-domain Modelling of Grid-connected CHP for its Interaction with the Power Grid.
- 5) A Hybrid Bat Algorithm for Economic Dispatch with Random Wind Power.
- 6) Temporal Decomposition for Improved Unit Commitment in Power System Production Cost Modeling.
- 7) Participation of Load Resources in Day-ahead Market to Provide Primary-Frequency Response Reserve.



- 8) An Incentive-Based Multistage Expansion Planning Model for Smart Distribution Systems.
- 9) Dynamic Phasor-Based Analysis of Unbalanced Three-Phase Systems in Presence of Harmonic Distortion.
- 10) Dynamic Event Detection Using a Distributed Feature Selection based Machine Learning Approach in a Self Healing Microgrid.
- 11) A Stochastic Market Design With Revenue Adequacy and Cost Recovery by Scenario: Benefits and Costs.
- 12) Observer-based Anomaly Detection of Synchronous Generators for Power Systems Monitoring.
- 13) An Improved Flux Magnitude and Angle Control With LVRT Capability for DFIGs.
- 14) Novel Approaches for the Clearing of the European Day-Ahead Electricity Market.
- 15) A Cumulant-Tensor Based Probabilistic Load Flow Method.
- 16) MMSE-based analytical estimator for uncertain power system with limited number of measurements.
- 17) Optimal Sizing and Control Strategies for Hybrid Storage System as Limited by Grid Frequency Deviations.
- 18) A New Voltage Stability-Constrained Optimal Power Flow Model: Sufficient Condition, SOCP Representation, and Relaxation.

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