

**POWER ELECTRONICS & POWER SYSTEM TITLE LIST 2018-19 (+91-9581464142)**

- 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 Feedforward Based Virtual Synchronous Generator Control Scheme.
- 6)** Sensorless parameter estimation and current sharing 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

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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.

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- 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 currentmode controlled boost converter.
- 44)** Modelling the threshold voltage of p-channel enhancement- mode GaN heterostructure 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 Nonsinusoidal 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 ZSource 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

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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.

## **POWER ELECTRONICS & POWER SYSTEM TITLE LIST 2018-19 (+91-9581464142)**

- 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.

## **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

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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.

**100% output**

**Plagiarism check**

**Paper publication (UGC, SCOPUS)**

**Review PPTS**

**Document**

**Enhancement**

**Future scope**

**Doubts Clarification**

**Online Support**

**Offline classes**