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**PONDICHERRY – VILLUPURAM – CUDDALORE – CHENNAI**

## POWER ELECTRONICS TITLE LIST 2017-18

### SOLAR ENERGY

- 1) Nonlinear PWM-Controlled Single-Phase Boost Mode Grid- Connected Photovoltaic Inverter With Limited Storage Inductance Current
- 2) A Family of Neutral-Point-Clamped Circuits of Single-Phase PV Inverters
- 3) A New Six-Switch Five-Level Active Neutral Point Clamped Inverter for PV Applications
- 4) Single-Stage Three-Phase Current-Source Photovoltaic Grid- Connected Inverter High Voltage Transmission Ratio
- 5) A Highly Efficient and Reliable Inverter Configuration Based Cascaded Multilevel Inverter for PV Systems
- 6) Modified Single-Phase Single-Stage Grid-tied Flying Inductor Inverter with MPPT and Suppressed Leakage Current
- 7) Reactive Power Control for Single-phase Grid-tie Inverters using Quasi Sinusoidal Waveform

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NO. 19, SIVAM TOWERS, 3 <sup>RD</sup> FLOOR, OPPOSITE TO VASANA EYE CARE, INDIRA GANDHI SIGNAL, PONDICHERRY.	NO. 798 C, NEHRUJI ROAD, ABOVE ANDHRA BANK, OPPOSITE TO RICE COMMITTEE, OLD BUSTAND ROAD, VILLUPURAM.	NO. 1, SS COMPLEX, OPP TO CHURCH, SEMMANDALAM JUNCTION, CUDDALORE.	TAMBARAM

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- 8) A Multilevel Transformer less Inverter employing Ground Connection between PV Negative Terminal and Grid Neutral point
- 9) An Improved Zero-Current-Switching Single-Phase Transformer less PV H6 Inverter with Switching Loss-Free
- 10) Modulation Technique for Single-Phase Transformer less Photovoltaic Inverters with Reactive Power Capability
- 11) Delta Power Control Strategy for Multistring Grid-Connected PV Inverters
- 12) Design of Cuk-Derived Transformer less Common-Grounded PV Micro inverter in CCM
- 13) A Single-Phase Transformer less Inverter With Charge Pump Circuit Concept for Grid-Tied PV Applications
- 14) A Novel Single-Stage, Single-Phase Reconfigurable Inverter Topology for a Solar Powered Hybrid AC/DC Home

## WIND ENERGY

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**PONDICHERRY – VILLUPURAM – CUDDALORE – CHENNAI**

- 15) A Medium-Frequency Transformer-Based Wind Energy Conversion System Used for Current-Source Converter- Based Offshore Wind Farm
- 16) Replacing the Grid Interface Transformer in Wind Energy Conversion System With Solid-State Transformer
- 17) Bipolar Operation Investigation of Current Source Converter- Based Wind Energy Conversion Systems
- 18) Control Strategy of Wind Turbine Based on Permanent Magnet Synchronous Generator and Energy Storage for Stand-Alone Systems
- 19) Novel Isolated Power Conditioning Unit for Micro Wind Turbine Application

## MICROGRID

- 20) Bidirectional Single-Stage Grid-Connected Inverter for a Battery Energy Storage System
- 21) Electric Vehicle Charging Station With an Energy Storage Stage for Split-DC Bus Voltage Balancing
- 22) A Decentralized Dynamic Power Sharing Strategy for Hybrid Energy Storage System in Autonomous DC Microgrid

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**PONDICHERRY – VILLUPURAM – CUDDALORE – CHENNAI**

23) Control of a Hybrid AC/DC Microgrid Involving Energy Storage and Pulsed Load

24) Hybrid Energy Storage System Micro Grids Integration For Power Quality Improvement Using Four Leg Three Level NPC Inverter and Second Order Sliding Mode Control

## MULTIPOINT

25) Secondary-Side-Regulated Soft-Switching Full-Bridge Three-Port Converter Based on Bridgeless Boost Rectifier and Bidirectional Converter for Multiple Energy Interface

26) Analysis, Design, Modelling, and Control of an Interleaved- Boost Full-Bridge Three-Port Converter for Hybrid Renewable Energy Systems

27) Design and Implementation of an Amorphous High- Frequency Transformer Coupling Multiple Converters in a Smart Micro grid

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- 28) Dual-DC-Port Asymmetrical Multilevel Inverters With Reduced Conversion Stages and Enhanced Conversion Efficiency
- 29) Dual-Transformer-Based Asymmetrical Triple-Port Active Bridge Isolated DC–DC Converter

## INVERTER

- 30) A Highly Reliable and High-Efficiency Quasi Single-Stage Buck–Boost Inverter
- 31) A Four-Switch Single-Stage Single-Phase Buck–Boost Inverter
- 32) Interleaved Resonant Boost Inverter Featuring SiC Module for High Performance Induction Heating
- 33) Modelling and Optimization of a Zero-Voltage Switching Inverter for High Efficiency and Miniaturization
- 34) Maximum Boost Control of Diode-Assisted Buck–Boost Voltage-Source Inverter With Minimum Switching Frequency

## MULTI LEVEL AND ZSOURCE INVERTER

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**PONDICHERRY – VILLUPURAM – CUDDALORE – CHENNAI**

- 35) A Novel Nine-Level Inverter Employing One Voltage Source and Reduced Components as High-Frequency AC Power Source
- 36) Quasi Cascaded H-Bridge Five-Level Boost Inverter
- 37) Steady-State Analysis and Design Considerations of High Voltage Gain Switched Z-Source Inverter With Continuous Input Current
- 38) A New Class of Single-Phase High-Frequency Isolated ZSource AC-AC Converters with Reduced Passive Components
- 39) Enhanced-Boost Quasi-Z-Source Inverters with Two Switched Impedance Network
- 40) High-Voltage Gain Half-Bridge Z-Source Inverter With Low-Voltage Stress on Capacitors
- DRIVES**
- 41) A Novel Method of Reducing Commutation Torque Ripple for Brushless DC Motor Based on Cuk Converter
- 42) Design and Demonstration of High Power Density Inverter for Aircraft Applications
- 43) Commutation Torque Ripple Reduction in BLDC Motor Using Modified SEPIC converter and three-level NPC inverter

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- 44) Quasi-Z-Source Indirect Matrix Converter Fed Induction Motor Drive for Flow Control of Dye in Paper Mill
- 45) Commutation Torque Ripple Suppression Strategy for Brushless DC Motors With a Novel Non-inductive Boost Front End

## **WIRELESS POWER TRANSFER**

- 46) Z-Source Resonant Converter With Constant Frequency and Load Regulation for EV Wireless Charger
- 47) Bidirectional Current-Fed Half-Bridge Configuration for Inductive Wireless Power Transfer System
- 48) A New Integration Method for an Electric Vehicle Wireless Charging System Using LCC Compensation Topology
- 49) Higher Order Compensation for Inductive-Power-Transfer Converters With Constant-Voltage or Constant-Current Output Combating Transformer Parameter Constraints
- 50) Modelling and Analysis of AC Output Power Factor for Wireless Chargers in Electric Vehicles
- 51) Simultaneous Wireless Power Transfer for Electric Vehicle Charging

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## **CONVERTERS:BUCKBOOST, SEPIC,FLYBACK,PUSHPULL**

- 52) Design and Analysis of a Class of Zero Fundamental Ripple Converters
- 53) Analysis and Design of Impulse-Commutated Zero-Current- Switching Single-Inductor Current-Fed Three-Phase Push– Pull Converter
- 54) A Cascaded Coupled Inductor-Reverse High Step-Up Converter Integrating Three-Winding Coupled Inductor and Diode–Capacitor Technique
- 55) Passive Regenerative and Dissipative Snubber Cells for Isolated SEPIC Converters
- 56) A New Negative Output Buck-Boost Converter with Wide Conversion Ratio
- 57) A Novel Structure for Single-Switch Non isolated Transformer less Buck–Boost DC–DC Converter
- 58) High-Efficiency Asymmetric Forward-Flyback Converter for Wide Output Power Range
- HIGH –VOLTAGE**
- 59) A High-Voltage-Gain DC–DC Converter Based on Modified Dickson Charge Pump Voltage Multiplier

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- 60) Zero-Ripple Input-Current High-Step-Up Boost–SEPIC DC– DC Converter With Reduced Switch-Voltage Stress
- 61) Ultra large Gain Step-Up Coupled-Inductor DC–DC Converter With an Asymmetric Voltage Multiplier Network for a Sustainable Energy System
- 62) A High Step-up PWM DC-DC Converter With Coupled- Inductor and Resonant Switched-Capacitor
- 63) A High-Efficiency Step-Up Current-Fed Push–Pull Quasi- Resonant Converter With Fewer Components for Fuel Cell Application

**BIDIRECTIONAL CONVERTER**

- 64) Cascaded High-Voltage-Gain Bidirectional Switched- Capacitor DC–DC Converters for Distributed Energy Resources Applications
- 65) High Light-Load Efficiency Power Conversion Scheme Using Integrated Bidirectional Buck Converter for Paralleled Server Power Supplies
- 66) Soft switched Modulation Techniques for an Isolated Bidirectional DC-AC
- 67) A Family of True Zero Voltage Zero Current Switching Non isolated Bidirectional DC–DC Converter With Wide Soft Switching Range

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- 68) Modelling and Analysis of Dual-Active-Bridge Isolated Bidirectional DC/DC Converter to Minimize RMS Current with Whole Operating Range
- 69) A Control Map for a Bidirectional PWM Plus Phase-Shift- Modulated Push-Pull DC-DC Converter
- 70) Interleaved Switched-Capacitor Bidirectional DC-DC Converter with Wide Voltage-Gain Range for Energy Storage Systems
- 71) A Novel Reversal Coupled Inductor High-Conversion-Ratio Bi-directional DC-DC Converter

## **MULTIPLE OUTPUT CONVERTER**

- 72) Design and Implementation of a High-Efficiency Multiple Output Charger Based on the Time-Division Multiple Control Technique
- 73) Analysis and Design of an Input-Series Two-Transistor Forward Converter for High-Input Voltage Multiple-Output Applications
- 74) A Dual-Buck–Boost AC/DC Converter for DC Nanogrid With Three Terminal Outputs
- 75) Improved Power Quality Bridgeless Converter-Based SMPS for Arc Welding

## **LED APPLICATONS**

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- 76) An AC–DC LED Driver With a Two-Parallel Inverted Buck Topology for Reducing the Light Flicker in Lighting Applications to Low-Risk Levels
- 77) Single-Stage Single-Switch Four-Output Resonant LED Driver With High Power Factor and Passive Current Balancing
- 78) Single-Switch Coupled-Inductor-Based Two-Channel LED Driver With a Passive Regenerative Snubber
- 79) Analysis and Design of a Single-Stage Isolated AC–DC LED Driver With a Voltage Doubler Rectifier
- 80) Flyback-Based Three-Port Topologies for Electrolytic Capacitor-Less LED Drivers
- 81) A Single-Switch AC–DC LED Driver Based on a Boost- Flyback PFC Converter With Lossless Snubber

## **POWER FACTOR CORRECTION**

- 82) Flexible Mode Bridgeless Boost PFC Rectifier With High Efficiency Over a Wide Range of Input Voltage
- 83) A Family of Single-Phase Voltage-Doubler High-Power- Factor SEPIC Rectifiers Operating in DCM

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84) A Family of Single-Phase Hybrid Step-Down PFC Converters

85) A Boost PFC Stage Utilized as Half-Bridge Converter for High-Efficiency DC–DC Stage in Power Supply Unit

## SOFT SWITCHING CONVERTER

86) A T-Type Isolated Zero Voltage Switching DC–DC Converter With Capacitive Output

87) A Hybrid ZVZCS Dual-Transformer-Based Full-Bridge Converter Operating in DCM for MVDC Grids

88) A New ZVT Snubber Cell for PWM-PFC Boost Converter

89) High-Efficiency Soft-Switching AC–DC Converter With Single-Power-Conversion Method

90) Soft-Switching Dual-Fly back DC–DC Converter With Improved Efficiency and Reduced Output Ripple Current

## RESONANT CONVERTER

91) Analysis and Design of SQR-Based High-Voltage *LLC* Resonant DC–DC Converter

92) A New Dual-Bridge Series Resonant DC-DC Converter with Dual-Tank

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- 93) A Quasi-Resonant Current-Fed Converter With Minimum Switching Losses
- 94) Design and Steady-State Analysis of Parallel Resonant DC–DC Converter for High-Voltage Power Generator
- 95) Dual-Bridge LLC Resonant Converter With Fixed-Frequency PWM Control for Wide Input Applications

## **Z SOURCE CONVERTER**

- 96) High-Performance Quasi-Z-Source Series Resonant DC–DC
- 97) Converter for Photovoltaic Module-Level Power Electronics Applications
- 98) Load and Source Battery Simulator Based on Z-Source Rectifier
- 99) Wide Input-Voltage Range Boost Three-Level DC–DC Converter With Quasi-Z Source for Fuel Cell Vehicles
- 100) Quasi-Z-Source Network-Based Hybrid Power Supply System for Aluminium Electrolysis Industry

## **INTERLEAVED CONVERTER**

- 101) Hybrid Z-Source Boost DC–DC Converters

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- 102) Interleaved LLC Resonant Converter With Hybrid Rectifier and Variable-Frequency Plus Phase-Shift control for Wide Output Voltage Range Applications
- 103) Zero-Voltage-Transition Interleaved Boost Converter With an Auxiliary Coupled Inductor
- 104) A Novel Interleaved Non isolated Ultrahigh-Step-Up DC–DC Converter With ZVS Performance
- 105) Discontinuous Current Mode Operation of Two-Phase Interleaved Boost Dc-dc Converter with Coupled-inductor
- 106) A Novel Soft-Switching Interleaved Coupled-Inductor Boost Converter with Only Single Auxiliary Circuit

## POWER SYSTEM

- 1) Voltage Control with PV Inverters in Low Voltage Networks
- 2) Unbalanced Control Strategy for A Thyristor-Controlled LCCoupling Hybrid Active Power Filter in Three-Phase Three- Wire Systems

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- 3) Low-Capacitance Cascaded H-Bridge Multilevel STATCOM
- 4) Simultaneous Micro grid Voltage and Current Harmonics Compensation Using Coordinated Control of Dual Interfacing Converters
- 5) A Comprehensive Design Approach of Power Electronic-Based Distributed Generation Units Focused on Power-Quality Improvement
- 6) Voltage Flicker Mitigation Employing Smart Loads With High Penetration of Renewable Energy in Distribution Systems
- 7) On the Application of Single-Phase Voltage Sag Compensators in Three-Phase Systems
- 8) A Superconducting Magnetic Energy Storage Emulator/Battery Supported Dynamic Voltage Restorer
- 9) Time-Varying and Constant Switching Frequency-Based Sliding-Mode Control Methods for Transformer less DVR Employing Half-Bridge VSI
- 10) Series Compensator Based on Cascaded Transformers Coupled With Three-Phase Bridge Converters
- 11) Power Quality Enhancement for a Grid Connected Wind Turbine Energy System
- 12) A Voltage Regulator for Power Quality Improvement in Low-Voltage Distribution Grids

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- 13) Hybrid Energy Storage System Micro Grids Integration For Power Quality Improvement  
Using Four Leg Three Level NPC Inverter and Second Order Sliding Mode Control
- 14) Single-Phase to Three-Phase Unified Power Quality Conditioner Applied in Single Wire  
Earth Return Electric Power Distribution Grids

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