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POWER ELECTRONICS

RESEARCH AND CONFERENCE ORIENTED TITLES

IEEE 2016

For: M.E., M.Tech., B.E., B.Tech, MCA, Mphil, MS

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POWER ELECTRONICS – CONVERTER BASED

DOMAIN	SINO	TOPIC	CODE
PE- CONVERTER <small>HARDWARE AND SIMULATION</small>	1.	A Bidirectional Three-Level LLC Resonant Converter With PWAM Control	PE1601
	2.	High Step-Up/Step-Down Soft-Switching Bidirectional DC–DC Converter With Coupled-Inductor and Voltage Matching Control for Energy Storage Systems	PE1602
	3.	Bidirectional Single Power Conversion DC-AC Converter with Non Complementary Active-Clamp Circuits	PE1603
	4.	A New Family of Zero-Voltage-Transition Non-isolated Bidirectional Converters With Simple Auxiliary Circuit	PE1604
	5.	Bidirectional Resonant DC–DC Step-Up Converters for Driving High-Voltage Actuators in Mobile Micro robots	PE1605
	6.	Interleaved SEPIC Power Factor Pre-Regulator Using Coupled Inductors in Discontinuous Conduction Mode with Wide Output Voltage	PE1606
	7.	Single-Stage Bridgeless AC-DC PFC Converter Using a Lossless Passive Snubber and Valley- Switching	PE1607
	8.	Reduced Current Stress Bridgeless Cuk PFC Converter with New Voltage Multiplier Circuit	PE1608
	9.	Bridgeless SEPIC PFC Converter for Low Total Harmonic Distortion and High Power Factor	PE1609
	10.	Full-Range Soft-Switching-Isolated Buck-Boost Converters With Integrated Interleaved Boost Converter and Phase-Shifted Control	PE1610
	11.	A PWM Plus Phase-Shift Controlled Interleaved Isolated Boost Converter Based on Semi-active Quadruple Rectifier for High Step-Up Applications	PE1611
	12.	A Bridgeless Totem-pole Interleaved PFC Converter for Plug-In Electric Vehicles	PE1612

POWER ELECTRONICS – INVERTER BASED

SINO	TOPIC	CODE
1.	SVM Strategies for Multiphase Voltage Source Inverters	PE1613
2.	High-Efficiency PWM DC-AC Inverter for Small PV Power Generation System	PE1614
3.	Improved Single Phase Split-Source Inverter with Hybrid Quasi-Sinusoidal and Constant PWM	PE1615
4.	Wide Input-Voltage Range Boost Three-Level DC-DC Converter with Quasi-Z Source for Fuel Cell Vehicles	PE1616
5.	A simplified DQ Controller for Single-Phase Grid-Connected PV Inverters	PE1617

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POWER ELECTRONICS – INVERTER

DOMAIN	SINO	TOPIC	CODE
PE- INVERTER HARDWARE AND SIMULATION	6.	Three-phase Split-Source Inverter (SSI): Analysis and Modulation	PE1618
	7.	A New Topology of Higher Order Power Filter for Single-Phase Grid-Tied Voltage Source Inverters	PE1619
	8.	A ZVS Grid-Connected Full-bridge Inverter with a Novel ZVS SPWM Scheme	PE1620
	9.	A Unified Space Vector Pulse Width Modulation for Dual Two-level Inverter System	PE1621
	10.	High-efficiency Bidirectional DAB Inverter using novel Hybrid Modulation for Stand-alone Power Generating System with Low Input Voltage	PE1622
	11.	Closed loop Control of Novel Transformer-less Inverter Topology for Single Phase Grid Connected Photovoltaic system	PE1623
	12.	A Pulse-Width Modulation Technique for High Voltage Gain Operation of Three-Phase Z-Source Inverters	PE1624
	13.	Effect of Grid Inductance on Grid Current Quality of Parallel Grid-Connected Inverter System with Output LCL Filter and Closed-Loop Control	PE1625
	14.	Bidirectional Single Power-Conversion DC-AC Converter with Non-Complementary Active-Clamp Circuits	PE1626
	15.	Hybrid Modulation Scheme for High Frequency Ac Link Inverter	PE1627

POWER ELECTRONICS – MULTILEVEL INVERTER

DOMAIN	SINO	TOPIC	CODE
MULTILEVEL INVERTER HARDWARE AND SIMULATION	1	Dual Flying Capacitor Active-Neutral-Point-Clamped Multilevel Converter	PE1628
	2	Fuzzy Logic Based Quasi Z-Source Cascaded Multilevel Inverter with Energy Storage for Photovoltaic Power Generation system	PE1629
	3	Selective harmonic elimination strategy for cascaded H-bridge five-level inverter with arbitrary power sharing among the cells	PE1630
	4	Multifunctional Control Strategy for Asymmetrical Cascaded H-Bridge Inverter in Micro grid Applications	PE1631
	5	Design and Implementation of a Novel Multilevel DC-AC Inverter	PE1632
	6	Modified Level-Shifted PWM Strategy for Fault-Tolerant Cascaded Multilevel Inverter switch Improved Power Distribution	PE1633

POWER ELECTRONICS – MULTILEVEL INVERTER

SINO	TOPIC	CODE
7	Performance Analysis of Open UPQC using Three Level Diode Clamped Multilevel Inverter	PE1634
8	Minimization of Inter-Module Leakage Current in Cascaded H-Bridge Multilevel Inverters for Grid Connected Solar PV Applications	PE1635
9	Hybrid Modulation Technique for Grid Connected Cascaded Photovoltaic Systems	PE1636
10	Study and Analysis of New Three-Phase Modular Multi-Level Inverter	PE1637
11	Introducing Adaptive Multilevel Inverters A PV Generator Interface to Power System	PE1638
12	A Family of Five-Level Dual-Buck Full-bridge Inverters for Grid-tied Applications	PE1639
13	A Single DC Source Cascaded Seven-Level Inverter Integrating Switched Capacitor Techniques	PE1640
14	An Enhanced Single Phase Step-Up Five-Level Inverter	PE1641

POWER ELECTRONICS – PV & WIND HYBRID SYSTEM BASED

SINO	TOPIC	CODE
1.	Improvement of Harmonic Current Compensation for Grid Integrated PV and Wind Hybrid Renewable Energy System	PE1642
2.	High-Gain Single-Stage Boosting Inverter for Photovoltaic Applications	PE1643
3.	Grid-Connected PV-Wind-Battery based Multi-Input Transformer Coupled Bidirectional DC-DC Converter for household Applications	PE1644
4.	Ultra capacitor-Battery Hybrid Energy Storage System Based on the Asymmetric Bidirectional Z-Source Topology for EV	PE1645
5.	A Comparative Analysis of Load Frequency Control Strategy of a Voltage Source Inverter for A Stand-alone PV-Wind Hybrid System	PE1646
6.	Hysteresis controller in modified PMSG windPV systems for power quality enhancement in grid	PE1647
7.	Hybrid Energy Management System for Micro grid Applications	PE1648
8.	Highly Reliable Transformer less Photovoltaic Inverters with Leakage Current and Pulsating Power Elimination	PE1649
9.	A Medium Frequency Transformer-Based Wind Energy Conversion System Used for Current Source Converter Based Offshore Wind Farm	PE1650
10.	A Single-phase PV Quasi-Z-source Inverter with Reduced Capacitance using Modified Modulation and Double-Frequency Ripple Suppression Control	PE1651

POWER ELECTRONICS – LED APPLICATIONS

DOMAIN	SINO	TOPIC	CODE
LED APPLICATIONS <small>HARDWARE AND SIMULATION</small>	1	Three phase converter with galvanic isolation based on loss-free resistors for HB-LED lighting applications	PE1652
	2	A CLCL Resonant DC/DC Converter for Two-Stage LED Driver System	PE1653
	3	A Novel LED Drive System Based on Matrix Rectifier	PE1654
	4	Single-Stage AC/DC Single-Inductor Multiple-Output LED Drivers	PE1655
	5	Design and Implementation of a High Efficiency Multiple Output Charger based on the Time Division Multiple Control Technique	PE1656
	6	A Power Quality Improved Bridgeless Converter Based Computer Power Supply	PE1657
	7	Control of a Single-Stage Three-Phase Boost Power Factor Correction Rectifier	PE1658
	8	A High-Voltage SiC-Based Boost PFC for LED Applications	PE1659
	9	LCL Filter Design for Three-phase Two-level Power Factor Correction using Line Impedance Stabilization Network	PE1660
	10	New AC–DC Power Factor Correction Architecture Suitable for High-Frequency Operation	PE1661
	11	Interleaved Digital Power Factor Correction Based on the Sliding-Mode Approach	PE1662
	12	Bumpless Control for Reduced THD in Power Factor Correction Circuits	PE1663
	13	A bidirectional single-stage three-phase Rectifier with high-frequency Isolation and power factor Correction	PE1664
	14	A Sensitivity-Improved PFM LLC Resonant Full-Bridge DC-DC Converter with LC Anti-Resonant Circuitry	PE1665
	15	A New Compact and High Efficiency Resonant Converter	PE1666

POWER ELECTRONICS – MOTOR CONTROL DRIVE

DOMAIN	SINO	TOPIC	CODE
MOTOR CONTROL DRIVE	1.	BLDC Motor Driven Solar PV Array Fed Water Pumping System Employing Zeta Converter	PE1667
	2.	Commutation Torque Ripple Reduction Strategy of Z-Source Inverter Fed Brushless DC Motor	PE1668
	3.	Single-Phase Input Variable-Speed AC Motor System Based on an Electrolytic Capacitor-Less Single-Stage Boost Three-Phase Inverter	PE1669
	4.	Switching-Gain Adaptation Current Control for Brushless DC Motors	PE1670
	5.	Position Sensor less Control Without Phase Shifter for High-Speed BLDC Motors With Low Inductance and No ideal Back EMF	PE1671

POWER ELECTRONICS – MOTOR CONTROL DRIVE

SINO	TOPIC	CODE
6.	Single-Phase Grid Connected Motor Drive System with DC-link Shunt Compensator and Small DC-link Capacitor	PE1672
7.	A Performance Investigation of a Four-Switch Three-Phase Inverter-Fed IM Drives at Low Speeds Using Fuzzy Logic and PI Controllers	PE1673
8.	A Systematic Power-Quality Assessment and Harmonic Filter Design Methodology for Variable-Frequency Drive Application in Marine Vessels	PE1674

POWER ELECTRONICS – POWER QUALITY IMPROVEMENT

DOMAIN	SINO	TOPIC	CODE
POWER QUALITY IMPROVEMENT HARDWARE AND SIMULATION	1.	Harmonics Suppression in a Non-Linear Load using Three Phase Shunt Active Power Filter	PE1675
	2.	Hysteresis Band Current Controller for Voltage Regulation and Harmonic Mitigation using DSTATCOM	PE1676
	3.	Control and Analysis of the Modular Multilevel DC De-Icer STATCOM Functionality	PE1677
	4.	Power Quality Improvement of 1- ϕ Grid Integrated Pulse Width Modulated Voltage Source Inverter using Hysteresis Current Controller with Offset Band	PE1678
	5.	Power Quality Improvement Using Photovoltaic fed DSTATCOM Based on JAYA Optimization	PE1679
	6.	Design of External Inductor for Improving Performance of Voltage Controlled DSTATCOM	PE1680

POWER ELECTRONICS – ENERGY STORAGE SYSTEM

DOMAIN	SINO	TOPIC	CODE
BIOMETRICS HARDWARE AND SIMULATION	1.	Bi-Directional Single-Stage Grid-Connected Inverter for Battery Energy Storage System	PE1681
	2.	High Efficiency Bi-Directional Converter for Flywheel Energy Storage Application	PE1682
	3.	High Step Up /Step Down Soft Switching Bidirectional DC-DC converter with coupled inductor and voltage matching control for energy storage systems	PE1683
	4.	Control and Implementation of a Standalone Solar Photo-Voltaic Hybrid System	PE1684
	5.	Design and Real-Time Controller Implementation for a Battery-Ultra-capacitor Hybrid Energy Storage System	PE1685
	6.	Grid-Connected PV-Wind-Battery based Multi-Input Transformer Coupled Bidirectional DC-DC Converter for household Applications	PE1686
	7.	Ultra-capacitor-Battery Hybrid Energy Storage System Based on the Asymmetric Bidirectional Z-Source Topology for EV	PE1687