

ELECTRICAL POWER SYSTEMS 2016 PROJECTS

DRIVES

- 1 A dual inverter for an open end winding induction motor drive without an isolation transformer
- 2 A Robust V/f Based Sensorless MTPA Control Strategy for IPM Drives
- 3 A Single-Stage Photovoltaic System for a Dual-Inverter fed Open-End Winding Induction Motor Drive for Pumping Applications
- 4 Closed-Loop Control on PMSG Torque in Direct-Drive Wind Power Generation System Without Speed Sensor
- 5 Modeling of Six-Phase Double Fed Induction Machine for Autonomous DC Voltage Generation
- 6 Research on Uninterrupted Power Supply Technology for Auxiliary Winding of Electric Locomotive when Passing Neutral Section
- 7 Resonant harmonic elimination pulse width modulation-based high-frequency resonance suppression of high-speed railways
- 8 Carrier-Based Pulse Width Modulation for Symmetrical Six-Phase Drives
- 9 Negative Sequence Current Optimizing Control based on Railway Static Power Conditioner in V/v Traction Power Supply System
- 10 Control of Brushless Doubly-Fed Reluctance Generators for Wind Energy Conversion Systems
- 11 Control of PMSG-Based Wind Turbines for System Inertial Response and Power Oscillation Damping
- 12 Deterioration Monitoring of DC-Link Capacitors in AC Machine Drives by Current Injection
- 13 Investigation and Suppression of Harmonics Interaction in High-Power PWM Current Source Motor Drives
- 14 A Quasi-Z-Source Direct Matrix Converter Feeding a Vector Controlled Induction Motor Drive
- 15 A Hybrid Filter for the Suppression of Common-Mode Voltage and Differential-Mode Harmonics in Three-Phase Inverters With CPM
- 16 DC/DC Buck Power Converter as a Smooth Starter for a DC Motor Based on a Hierarchical Control
- 17 Induction Motor Control With a Small DC-Link Capacitor Inverter Fed by Three-Phase Diode Front-end Rectifiers
- 18 Predictive Torque Control Scheme for Three-Phase Four-Switch Inverter-Fed Induction Motor Drives With DC-Link Voltages Offset Suppression
- 19 Doubly Fed Induction Generator for Wind Energy Conversion Systems with Integrated Active Filter Capabilities
- 20 Speed control of neural network based energy efficient DC drive
- 21 Predictive Torque Control Scheme for Three-Phase Four-Switch Inverter-Fed Induction Motor Drives With DC-Link Voltages Offset Suppression
- 22 A dual inverter for an open end winding induction motor drive without an isolation transformer
- 23 DC to DC Buck Power Converter as a Smooth Starter for a DC Motor Based on a Hierarchical Control
- 24 Research on Uninterrupted Power Supply Technology for Auxiliary Winding of Electric Locomotive when Passing Neutral Section
- 25 Increase Efficiency of PV-FC Power Invention Based BLDC Motor Using Fuzzy Logic MPPT Control

- 26 Speed control of neural network based energy efficient DC drive
- 27 Impacts of High Penetration of DFIG Wind Turbines on Rotor Angle Stability of Power

POWER QUALITY

- 1 A Direct Voltage Unbalance Compensation Strategy for Islanded Microgrids
- 2 Design and Simulation of Five-level Inverter based DSTATCOM Using Fuzzy Logic
- 3 Implementation of Hybrid Filter for 12-Pulse Thyristor Rectifier Supplying High-Current Variable-Voltage DC Load
- 4 Individual Phase Current Control with the Capability to Avoid Overvoltage in Grid-Connected Photovoltaic Power Plants under Unbalanced Voltage Sags
- 5 PLL-less Robust Active and Reactive Power Controller for Single Phase Grid-Connected Inverter with LCL Filter
- 6 Space Vector Modulation for Single-Phase Transformer less Three-Leg Unified Power Quality Conditioner
- 7 STATCOM-based Virtual Inertia Control for Wind Power Generation
- 8 Full-bridge Reactive Power Compensator with Minimized Equipped Capacitor and its Application to Static Var Compensator
- 9 A Grid-Connected Dual Voltage Source Inverter With Power Quality Improvement features
- 10 A Phase-Shifted-PWM D-STATCOM Using a Modular Multilevel Cascade Converter (SSBC)—Part I: Modeling, Analysis, and Design of Current Control
- 11 An Integrated Dynamic Voltage Restorer-Ultracapacitor Design for Improving Power Quality of the Distribution Grid
- 12 Modulation and Control of Transformer-less UPFC
- 13 A Direct Voltage Unbalance Compensation Strategy for Islanded Microgrids
- 14 A Novel Control Method for Transformerless H-Bridge Cascaded STATCOM With Star Configuration
- 15 An Adaptive Power Oscillation Damping Controller by STATCOM With Energy Storage
- 16 A New Reactive Current Reference Algorithm for the STATCOM System Based on Cascaded Multilevel Inverters
- 17 A Robust DC-Link Voltage Control Strategy to Enhance the Performance of Shunt Active Power Filters Without Harmonic Detection Schemes
- 18 An Improved iUPQC Controller to Provide Additional Grid-Voltage Regulation as a STATCOM
- 19 A Hybrid Filter for the Suppression of Common-Mode Voltage and Differential-Mode Harmonics in Three-Phase Inverters With CPPM
- 20 A Single-Phase Active Device for Power Quality Improvement of Electric field Transportation
- 21 Analysis and Mitigation of Resonance Propagation in Grid-Connected and Islanding Microgrids
- 22 Frequency-Adaptive Fractional-Order Repetitive Control of Shunt Active Power Filters
- 23 Grid Voltage Synchronization for Distributed Generation Systems Under Grid Fault Conditions

- 24 Hybrid Active Filter With Variable Conductance for Harmonic Resonance Suppression in Industrial Power Systems
- 25 Intelligent Islanding and Seamless Reconnection Technique for Microgrid With UPQC
- 26 Optimal Control of Shunt Active Power Filter to Meet IEEE Std. 519 Current Harmonic Constraints Under Nonideal Supply Condition
- 27 Modeling Simulation and Performance
- 28 Power Quality Improvement In Transmission Systems Using DPFC
- 29 Reactive Power Management in Islanded
- 30 Grid Voltage Synchronization for Distributed
- 31 A Control Technique for Integration of DG Units to the Electrical Networks
- 32 A Grid-Connected Dual Voltage Source Inverter
- 33 An Integrated Dynamic Voltage Restorer-Ultracapacitor Design for Improving Power Quality of the Distribution Grid
- 34 An Integrated Dynamic Voltage Restorer-Ultracapacitor
- 35 Stationary Reference Frame Control of UPF AC-DC Converter
- 36 Design and Simulation of Five-level Inverter based DSTATCOM Using Fuzzy Logic
- 37 Design of Intelligent Maximum Power Point Tracking (MPPT) technique based on Swarm Intelligence based Algorithms
- 38 Intelligent Islanding and Seamless Reconnection Technique for Microgrid With UPQC
- 39 Modeling Simulation and Performance Analysis of Hybrid Power Generation System
- 40 Reactive Power Management in Islanded Micro grid Proportional Power Sharing in Hierarchical Droop Control
- 41 Sizing and Controller Setting of Ultracapacitors for frequency stability Enhancement of small isolated power system
- 42 Design of a Generalized Control Algorithm for Parallel Inverters for Smooth Microgrid Transition Operation
- 43 Sliding-Mode-Control of CascadedMultilevel Inverter with Multiband Hysteresis Modulation Scheme

SOLAR POWER GENERATION

- 1 A Single-Stage Photovoltaic System for a Dual-Inverter fed Open-End Winding Induction Motor Drive for Pumping Applications
- 2 Flexible System Architecture of Stand-Alone PV Power Generation With Energy Storage Device
- 3 Hybrid Pulse width Modulated Single-Phase Quasi-Z-Source Grid-Tie Photovoltaic Power System
- 4 Power-weighting-based Multiple Input and Multiple Output Control Strategy for Single-phase PV ...
- 5 Stationary-frame-based Generalized Control Diagram for PWM AC-DC Front-end Converters with...
- 6 An Energy Stored Quasi-Z Source CascadeMultilevel Inverter Based Photovoltaic PowerGeneration System
- 7 Design of a Generalized Control Algorithm for ParallelInverters for Smooth Microgrid Transition Operation
- 8 Hybrid Pulsewidth Modulated Single-Phase Quasi-Z-Source Grid-Tie Photovoltaic Power System

- 9 New Low Distortion Q-f Droop Plus Correlation Anti-Islanding Detection Method for Power Converters in Distributed Generation Systems
- 10 Optimized Operation of Current-Fed Dual Active Bridge DC-DC Converter for PV Applications
- 11 Flexible System Architecture of Stand-Alone PV Power Generation With Energy Storage Device
- 12 A Direct Voltage Unbalance Compensation Strategy for Islanded Microgrids
- 13 Modular Cascaded H-Bridge Multilevel PV Inverter With Distributed MPPT for Grid-Connected Applications
- 14 Comparison between IC and Fuzzy Logic MPPT Algorithm Based Solar PV System using Boost Converter
- 15 Hybrid Multicarrier Modulation to Reduce Leakage Current in a Transformerless Cascaded Multilevel Inverter for Photovoltaic Systems
- 16 Individual Phase Current Control With the Capability to Avoid Overvoltage in Grid-Connected Photovoltaic Power Plants Under Unbalanced Voltage Sags
- 17 An Optimal Maximum Power Point Tracking Algorithm for PV Systems With Climatic Parameters Estimation
- 18 Modeling Simulation and Performance
- 19 Reactive Power Management in Islanded
- 20 Design of Intelligent Maximum Power Point Tracking (MPPT) technique based on Swarm Intelligence based Algorithms
- 21 Hybrid Multicarrier Modulation to Reduce Leakage Current in a Transformerless Cascaded Multilevel Inverter for Photovoltaic Systems
- 22 Modeling Simulation and Performance Analysis of Hybrid Power Generation System
- 23 Performance Analysis of Grid Connected Hybrid Wind Photovoltaic System
- 24 Single- and Two-Stage Inverter-Based Grid-Connected Photovoltaic Power Plants With Ride-Through Capability Under Grid Faults
- 25 Design of Intelligent Maximum Power Point Tracking (MPPT) technique based on Swarm Intelligence based Algorithms
- 26 Modeling Simulation and Performance Analysis of Hybrid Power Generation System
- 27 An Optimal Maximum Power Point Tracking Algorithm for PV Systems With Climatic Parameters Estimation
- 28 Increase Efficiency of PV-FC Power Invention Based BLDC Motor Using Fuzzy Logic MPPT Control

WIND POWER GENERATION

- 1 A Single Sensor based MPPT Controller for Wind-Driven Induction Generators Supplying DC Microgrid
- 2 Closed-Loop Control on PMSG Torque in Direct-Drive Wind Power Generation System Without Speed Sensor
- 3 Design of Switched Reluctance Generator System for Wind Power Maximization
- 4 Disturbance Rejection Strategies for AC/DC Microgrids
- 5 Improving the LVRT Capability of the DFIG-Based Wind Turbines during Fault
- 6 Model Based Predictive Control strategies for Wind Turbine System Based on PMSG
- 7 STATCOM-based Virtual Inertia Control for Wind Power Generation

- 8 Stationary-frame-based Generalized Control Diagram for PWM AC-DC Front-end Converters with Unbalanced Grid Voltage in Renewable Energy Systems
- 9 Two-Level Control of Doubly Fed Induction Generator Using Flatness-Based Approach
- 10 A Single Sensor based MPPT Controller for Wind-Driven Induction Generators Supplying DC Microgrid
- 11 Contribution of VSC-HVDC to Frequency Regulation of Power Systems With Offshore Wind Generation
- 12 Control of Brushless Doubly-Fed Reluctance Generators for Wind Energy Conversion Systems
- 13 Control of PMSG-Based Wind Turbines for System Inertial Response and Power Oscillation Damping
- 14 Doubly Fed Induction Generator for Wind Energy Conversion Systems With Integrated Active Filter Capabilities
- 15 Decentralized Control of a Nine-Phase Permanent Magnet Generator for Offshore Wind Turbines
- 16 Flexible System Architecture of Stand-Alone PV Power Generation With Energy Storage Device
- 17 Impedance Model-Based SSR Analysis for TCSC Compensated Type-3 Wind Energy Delivery Systems
- 18 Transient Stability Enhancement of Doubly Fed Induction Machine-Based Win Generator by Bridge-Type Fault Current Limiter
- 19 A Direct Voltage Unbalance Compensation Strategy for Islanded Microgrids
- 20 Active Voltage Feedback Control for Hybrid Multi-terminal HVDC System Adopting Improved Synchronverters
- 21 Contribution of VSC-HVDC to Frequency Regulation of Power Systems With Offshore Wind Generation
- 22 DC Impedance-Model-Based Resonance Analysis of a VSC-HVDC System
- 23 A Modular Multilevel DC/DC Converter With Fault Blocking Capability for HVDC Interconnects
- 24 Model based predictive control strategies for wind turbine system based on PMSG
- 25 Modeling Simulation and Performance
- 26 A Single Sensor based MPPT Controller for Wind-Driven Induction Generators Supplying DC Microgrid
- 27 Model Based Predictive Control strategies for Wind Turbine System Based on PMSG
- 28 Performance Analysis of Grid Connected Hybrid WindPhotovoltaic System
- 29 Modeling Simulation and Performance Analysis of Hybrid Power Generation System
- 30 Primary Frequency Control Contribution From Smart Loads Using Reactive Compensation

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