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Multi-Objective Energy Management for Residential Microgrid with Hybrid Electricity-Hydrogen Storage System using Particle Swarm Optimization
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Plug-and-play control and consensus algorithms for current sharing in DC microgrids

Optimum power quality service in multi-bus microgrid systems

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Mixed-Integer-Linear-Programming-Based Energy Management System for Hybrid PV-Wind-Battery Microgrids: Modeling, Design, and Experimental Verification

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Distributed Cooperative Control of Multi Flywheel Energy Storage System for Electrical Vehicle Fast Charging Stations

Dynamic Consensus Algorithm based Distributed Voltage Harmonic Compensation in Islanded Microgrids

Managing high penetration of renewable energy in MV grid by electric vehicle storage

Multiagent based Distributed Control for Operation Cost Minimization of Droop Controlled AC Microgrid Using Incremental Cost Consensus
Negative Sequence Droop Method based Hierarchical Control for Low Voltage Ride-Through in Grid-Interactive Microgrids

Online Energy Management System for Distributed Generators in a Grid-Connected Microgrid

Stability Analysis for Isolated AC Microgrids Based on PV-Active Generators

Virtual admittance loop for voltage harmonic compensation in microgrids

Computational optimization techniques applied to microgrids planning: a review

Tuning of Synchronous-Frame PI Current Controllers in Grid-Connected Converters Operating at a Low Sampling Rate by MIMO Root Locus

A flexible five-level cascaded H-bridge inverter for photovoltaic grid-connected systems

A Cell-to-Cell Battery Equalizer With Zero-Current Switching and Zero-Voltage Gap Based on Quasi-Resonant LC Converter and Boost Converter

Adaptive Virtual Impedance Scheme for Selective Compensation of Voltage Unbalance and Harmonics in Microgrids

Control and design of full-bridge three-level converter for renewable energy sources

Cooperative Frequency Control for Autonomous AC Microgrids

Enhancing the Capacity of the AC Distribution System Using DC Interlinks - A Step Towards Future DC Grid

Harmonic Resonances in Wind Power Plants: Modeling, Analysis and Active Mitigation Methods
Model Order Reductions for Stability Analysis of Islanded Microgrids With Droop Control


 Provision of Flexible Load Control by Multi-Flywheel-Energy-Storage System in Electrical Vehicle Charging Stations

Reactive Power Management in Islanded Microgrid – Proportional Power Sharing in Hierarchical Droop Control

Reactive Power Support of Electrical Vehicle Charging Station Upgraded with Flywheel Energy Storage System

Stored Energy Balance for Distributed PV-Based Active Generators in an AC Microgrid

Voltage Harmonics Monitoring in a Microgrid Based on Advanced Metering Infrastructure (AMI)

An Improved Droop Control Strategy for Reactive Power Sharing in Islanded Microgrid

A Systematic Approach to Design High-Order Phase-Locked Loops

Dynamic Evaluation of LCL-type Grid-Connected Inverters with Different Current Feedback Control Schemes

Dynamics Assessment of Grid-Synchronization Algorithms for Single-Phase Grid-Connected Converters

Energy Management Systems and tertiary regulation in hierarchical control architectures for islanded micro-grids

Generation-Side Power Scheduling in a Grid-Connected DC Microgrid
Phase-lock loop of Grid-connected Voltage Source Converter under non-ideal grid condition

Stability analysis and design of the improved droop controller on a voltage source inverter

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A Survey on Control of Electric Power Distributed Generation Systems for Microgrid Applications

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dq-Frame Cascaded Delayed Signal Cancellation-Based PLL: Analysis, Design, and Comparison With Moving Average Filter-Based PLL

Droop-free Team-oriented Control for AC Distribution Systems

High-Performance Control of Paralleled Three-Phase Inverters for Residential Microgrid Architectures Based on Online Uninterruptable Power Systems
Improved Droop Control Strategy for Grid-Connected Inverters

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Microgrid Stability Controller Based on Adaptive Robust Total SMC

Modeling and sensitivity analysis of consensus algorithm based distributed hierarchical control for dc microgrids

Multi-Agent-Based Distributed State of Charge Balancing Control for Distributed Energy Storage Units in AC Microgrids

Small-Signal Modeling, Analysis and Testing of Parallel Three-Phase-Inverters with A Novel Autonomous Current Sharing Controller

Distributed Bus Signaling Control for a DC Charging Station with Multi Paralleled Flywheel Energy Storage System

Hybrid Active Filter with Variable Conductance for Harmonic Resonance Suppression in Industrial Power Systems

Double-Quadrant State-of-Charge-Based Droop Control Method for Distributed Energy Storage Systems in Autonomous DC Microgrids

A Control Scheme to Improve the Power Quality with the Absence of Dedicated Compensation Devices in Microgrid

Adaptive Distance Protection for Microgrids

Analysis, Control and Experimental Verification of a Single-Phase Capacitive-Coupling Grid-Connected Inverter
A Simplified Control Architecture for Three-Phase Inverters in Modular UPS Application with Shunt Active Power Filter Embedded

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Coordinated Secondary Control for Balanced Discharge Rate of Energy Storage System in Islanded Microgrids

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Economic Power Dispatch of Distributed Generators in a Grid-Connected Microgrid

Energy Management System with Equalization Algorithm for Distributed Energy Storage Systems in PV-Active Generator Based Low Voltage DC Microgrids

Fuzzy droop control loops adjustment for stored energy balance in distributed energy storage system

Hierarchical Control for Voltage Harmonics Compensation in Multi-Area Microgrids

Hierarchical Controlled Grid-Connected Microgrid based on a Novel Autonomous Current Sharing Controller

Hierarchical Control with Virtual Resistance Optimization for Efficiency Enhancement and State-of-Charge Balancing in DC Microgrids
Hybrid Synchronous/Stationary Reference Frame Filtering based PLL

Hybrid synchronous/stationary reference-frame-filtering-based PLL

Improved control strategy for the three-phase grid-connected inverter

Intelligent DC Microgrid Living Laboratories - A Chinese-Danish Cooperation Project

Leakage Current Suppression with A Novel Six-Switch Photovoltaic Grid-Connected Inverter

MAF-PLL With Phase-Lead Compensator

MAF-PLL with phase-lead compensator

Modular Plug'n'Play Control Architectures for Three-phase Inverters in UPS Applications

Multiagent-based Distributed Control for Operation Cost Minimization of Droop Controlled DC Microgrid Using Incremental Cost Consensus

Operation Cost Minimization of Droop-Controlled DC Microgrids Based on Real-Time Pricing and Optimal Power Flow

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Optimal Power Flow in three-phase islanded microgrids with inverter interfaced units

Optimal Utilization of Microgrids Supplemented with Battery Energy Storage Systems in Grid Support Applications

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Thermal Impact Analysis of Circulating Current in High Power Modular Online Uninterruptible Power Supplies Application

Two-Level Control for Fast Electrical Vehicle Charging Stations with Multi Flywheel Energy Storage System

A Quasi-Type-1 Phase-Locked Loop Structure

Autonomous Active Power Control for Islanded AC Microgrids with Photovoltaic Generation and Energy Storage System

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Guest Editorial Advanced Distributed Control of Energy Conversion Devices and Systems

Hierarchical Control for Multiple DC Microgrids Clusters

Microgrids: experiences, barriers and success factors

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Multiagent Based Distributed Control for State-of-Charge Balance of Distributed Energy Storage in DC microgrids
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Faroe Islands Wind-Powered Space Heating Microgrid Using Self-Excited 220 kW Induction Generator

Modeling and Nonlinear Control of Electric Power Stage in Hybrid Electric Vehicle

Model predictive control of smart microgrids

Robust Networked Control Scheme for Distributed Secondary Control of Islanded MicroGrids

Study of Large-Signal Stability of an Inverter-based Generator using a Lyapunov Function

Three-Phase Grid-Connected of Photovoltaic Generator Using Nonlinear Control

A Systematic Method to Synthesize New Transformerless Full-bridge Grid-tied Inverters

Frequency Stability of Hierarchically Controlled Hybrid Photovoltaic-Battery-Hydropower Microgrids

Generic inertia emulation controller for multi-terminal voltage-source-converter high voltage direct current systems

Guest Editorial: Special Section on Smart DC Distribution Systems

Intelligent Distributed Generation and Storage Units for DC Microgrids - A New Concept on Cooperative Control without Communications Beyond Droop Control

Modeling and Nonlinear Control of Fuel Cell / Supercapacitor Hybrid Energy Storage System for Electric Vehicles
Optimal power flow based on glow worm-swarm optimization for three-phase islanded microgrids

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Secondary Coordinated Control of Islanded Microgrids Based on Consensus Algorithms

Virtual Flux Droop Method – A New Control Strategy of Inverters in Microgrids

Virtual Impedance Based Stability Improvement for DC Microgrids with Constant Power Loads

Dynamic Performance of Grid Converters using Adaptive DC Voltage Control

Microgrids in Active Network Management-Part II: System Operation, Power Quality and Protection

A Distributed Control Strategy for Coordination of an Autonomous LVDC Microgrid Based on Power-Line Signalling

Performance Improvement of a Prefiltered Synchronous-Reference-Frame PLL By Using a PID-Type Loop Filter

Power flow analysis for droop controlled LV hybrid AC-DC microgrids with virtual impedance

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Agent-based Distributed Unbalance Compensation for Optimal Power Quality in Islanded Microgrids

Control Strategy for Microgrid Inverter under Unbalanced Grid Voltage Conditions
Droop-Control-Based State-of-Charge Balancing Method for Charging and Discharging Process in Autonomous DC Microgrids

State-of-Charge Balance Using Adaptive Droop Control for Distributed Energy Storage Systems in DC MicroGrid Applications

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Analysis of Droop Controlled Parallel Inverters in Islanded Microgrids

A Simple Autonomous Current-Sharing Control Strategy for Fast Dynamic Response of Parallel Inverters in Islanded Microgrids

A Single Phase Seven-level Grid-connected inverter Based On Three Reference SPWM Strategy

Autonomous Control of Distributed Generation and Storage to Coordinate P/Q Sharing in Islanded Microgrids: An Approach beyond Droop Control

Dynamic Consensus Algorithm Based Distributed Global Efficiency Optimization of a Droop Controlled DC Microgrid

Fundamental impedance identification method for grid-connected voltage source inverters

Mas Roig Mini-Grid: A Renewable-Energy-Based Rural Islanded Microgrid

Modeling, Stability Analysis and Active Stabilization of Multiple DC-Microgrids Clusters

Reactive Power Sharing and Voltage Harmonic Distortion Compensation of Droop Controlled Single Phase Islanded Microgrids
Resonance Damping Techniques for Grid-Connected Voltage Source Converters with LCL filters – A Review

Review of Aircraft Electric Power Systems and Architectures

Voltage Scheduling Droop Control for State-of-Charge Balance of Distributed Energy Storage in DC Microgrids

An Improved Droop Control Method for DC Microgrids Based on Low Bandwidth Communication with DC Bus Voltage Restoration and Enhanced Current Sharing Accuracy

Advanced LVDC Electrical Power Architectures and Microgrids: A Step toward a New Generation of Power Distribution Networks

Asymmetrical Grid Fault Ride-Through Strategy of Three-phase Grid-connected Inverter Considering Network Impedance Impact in Low Voltage Grid

Hierarchical Control of Parallel AC-DC Converter Interfaces for Hybrid Microgrids

Line-Interactive UPS for Microgrids

Fuzzy-Logic-Based Gain-Scheduling Control for State-of-Charge Balance of Distributed Energy Storage Systems for DC Microgrids

Power Flow Analysis Algorithm for Islanded LV Microgrids Including Distributed Generator Units with Droop Control and Virtual Impedance Loop
Control and Analysis of Droop and Reverse Droop Controllers for Distributed Generations

Control of single-phase islanded PV/battery minigrids based on power-line signaling

Distributed Secondary Control for Islanded MicroGrids - A Novel Approach

Dynamic-Phasor-Based Nonlinear Modelling of AC Islanded Microgrids Under Droop Control

Hierarchical Control for Multiple DC-Microgrids Clusters

Modeling and Control of Flexible HEV Charging Station upgraded with Flywheel Energy Storage

Secondary Voltage Unbalance Compensation for Three-Phase Four-Wire Islanded Microgrids

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Tertiary Control for Optimal Unbalance Compensation in Islanded Microgrids

Analysis, Design, and Experimental Verification of A Synchronous Reference Frame Voltage Control for Single-Phase Inverters

Analysis, design, and experimental verification of a synchronous reference frame voltage control for single-phase inverters

An Analysis of the PLLs With Secondary Control Path

An analysis of the PLLs with secondary control path
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A quasi-type-1 phase-locked loop structure

A Rolling Horizon Rescheduling Strategy for Flexible Energy in a Microgrid

Co-design of the LCL Filter and Control for Grid-Connected Inverters

Distributed Consensus-Based Control of Multiple DC-Microgrids Clusters

Hierarchical Coordinated Control of Distributed Generators and Active Power Filters to Enhance Power Quality of Microgrids

Hybrid islanding detection method by using grid impedance estimation in parallel-inverters-based microgrid

Microgrids in Active Network Management-Part I: Hierarchical Control, Energy Storage, Virtual Power Plants, and Market Participation

Moving Average Filter-Based Phase-Locked Loops: Performance Analysis and Design Guidelines

Moving average filter based phase-locked loops: Performance analysis and design guidelines

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Team-oriented Adaptive Droop Control for Autonomous AC Microgrids

Tracking Controller for Intrinsic Output Saturated Systems in Presence of Amplitude and Rate Input Saturations

一种可实现微网系统快速平滑并网的主动同步控制策略
A generic Inertia Emulation Controller for Multi-Terminal VSC-HVDC systems

A parametric study on unbalanced three phase islanded microgrids with inverter interfaced units

Microgrids: Hierarchical Control and an Overview of the Control and Reserve Management Strategies

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Advantages and Challenges of a Type-3 PLL

An Islanding Microgrid Power Sharing Approach Using Enhanced Virtual Impedance Control Scheme

Single-Carrier Modulation for Neutral-Point-Clamped Inverters in Three-Phase Transformerless Photovoltaic Systems

Stability, Power Sharing, & Distributed Secondary Control in Droop-Controlled Microgrids

Small-signal modeling of digitally controlled grid-connected inverters with LCL filters

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Distributed Control to Ensure Proportional Load Sharing and Improve Voltage Regulation in Low-Voltage DC Microgrids

Introduction to the special section on distributed generation and microgrids


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Advantages and challenges of a type-3 PLL

A generic inertia emulation controller for multi-terminal VSC-HVDC systems

Analysis, design, and experimental evaluation of power calculation in digital droop-controlled parallel microgrid inverters

Analysis, Modelling, and Simulation of Droop Control with Virtual Impedance Loop Applied to Parallel UPS Systems

A New Synchronous Reference Frame-Based Method for Single-Phase Shunt Active Power Filters

A new synchronous reference frame-based method for single-phase shunt active power filters

A new virtual-flux-vector based droop control strategy for parallel connected inverters in microgrids

A Novel Grid Impedance Estimation Technique based on Adaptive Virtual Resistance Control Loop Applied to Distributed Generation Inverters
A Novel Robust Communication Algorithm for Distributed Secondary Control of Islanded MicroGrids

A parametric study on unbalanced three phase islanded microgrids with inverter interfaced units

Autonomous Voltage Unbalance Compensation in an Islanded Droop-Controlled Microgrid

Battery State-of-Charge and Parameter Estimation Algorithm Based on Kalman Filter

Control of single-phase islanded PV/battery streetlight cluster based on power-line signaling

Coordinated Power Control Strategy based on Primary-Frequency-Signaling for Islanded Microgrids

Coordinated Primary and Secondary Control with Frequency-Bus-Signaling for Distributed Generation and Storage in Islanded Microgrids

Distributed Cooperative Control of Nonlinear and Non-identical Multi-agent Systems

Distributed Cooperative Secondary Control of Microgrids Using Feedback Linearization

Distributed Secondary Control for DC Microgrid Applications with Enhanced Current Sharing Accuracy

Dynamics Assessment of Advanced Single-Phase PLL Structures

Dynamics assessment of advanced single-phase PLL structures

Grid simulator for power quality assessment of micro-grids
Industrial applications of the Kalman filter: a review

MAS Based Event-Triggered Hybrid Control for Smart Microgrids

Microgrid Reactive and Harmonic Power Sharing Using Enhanced Virtual Impedance

Modeling, analysis, and design of stationary reference frame droop controlled parallel three-phase voltage source inverters

Modelling, Analysis, and Design of a Frequency-Droop-Based Virtual Synchronous Generator for Microgrid Applications

Optimal Power Flow in Microgrids with Energy Storage

Optimization with System Damping Restoration for Droop Controlled DC-DC Converters

Selective compensation of voltage harmonics in grid-connected microgrids

Selective virtual capacitive impedance loop for harmonics voltage compensation in islanded microgrids

Stability Constrained Efficiency Optimization for Droop Controlled DC-DC Conversion System

Voltage-Based Control of a Smart Transformer in a Microgrid

直流微电网储能系统中带有母线电压跌落补偿功能的负荷功率动态分配方法

Introduction to the special section on industrial applications and implementation issues of the Kalman filter
Automatic Power-Sharing Modification of P/V Droop Controllers in Low-Voltage Resistive Microgrids


Lyapunov based control of hybrid energy storage system in electric vehicles

An islanding microgrid reactive power sharing scheme enhanced by programmed virtual impedances

A Review of Power Electronics Based Microgrids

Cooperative Control with Virtual Selective Harmonic Capacitance for Harmonic Voltage Compensation In Islanded MicroGrids

Design and Tuning of a Modified Power-Based PLL for Single-Phase Grid-Connected Power Conditioning Systems

Design and tuning of a modified power-based PLL for single-phase grid-connected power conditioning systems

Distributed Secondary Control for Islanded MicroGrids – A Networked Control Systems Approach

Grid-connected of photovoltaic module using nonlinear control

Grid Integration of Renewables

Highly efficient distributed generation and high-capacity energy storage

Improving the voltage quality of an inverter via by-passing the harmonic current components

Mitigation of Voltage and Current Harmonics in Grid-Connected Microgrids
Multilayer Control for Inverters in Parallel Operation without Intercommunications

Multiple Distributed Smart Microgrids with a Self-Autonomous, Energy Harvesting Wireless Sensor Network

Online Detection and Estimation of Grid Impedance Variation for Distributed Power Generation

Precise Modeling Based on Dynamic Phasors for Droop-Controlled Parallel-Connected Inverters

Secondary Control for Compensation of Voltage Harmonics and Unbalance in Microgrids

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Secondary Control for Reactive Power Sharing in Droop-Controlled Islanded MicroGrids

Secondary Control for Voltage Quality Enhancement in Microgrids

Secondary Control Scheme for Voltage Unbalance Compensation in an Islanded Droop-Controlled Microgrid

Selective Harmonic Virtual Impedance for Voltage Source Inverters with LCL filter in Microgrids

SoC-Based Droop Method for Distributed Energy Storage in DC Microgrid Applications

SoC-Based Dynamic Power Sharing Method with AC-Bus Voltage Restoration for Microgrid Applications
Voltage Quality Improvement in Islanded Microgrids Supplying Nonlinear Loads

Editorial: Special issue on power electronics for microgrids - Part II

Nonlinear control of single-phase shunt active power filter theoretical analysis of closed-loop performances

Advanced control of interleaved boost converter for fuel cell energy generation system

Intelligent connection agent for three-phase grid-connected microgrids

Adaptive control of interleaved boost converter for fuel cell energy

Fuzzy variable structure control for PWM inverters

A novel improved variable step-size incremental-resistance MPPT method for PV systems

Detailed Operation Scheduling and Control for Renewable Energy Powered Microgrids

Selective compensation of voltage harmonics in an islanded microgrid

Design and analysis of the droop control method for parallel inverters considering the impact of the complex impedance on the power sharing

Hierarchical control of droop-controlled AC and DC microgrids - A general approach toward standardization

Uninterruptible Power Supplies

A centralized control architecture for harmonic voltage suppression in islanded microgrids
A Distributed Control Strategy Based on DC Bus Signaling for Modular Photovoltaic Generation Systems With Battery Energy Storage

Connecting Renewable Energy Sources into the Smartgrid

Control of parallel-connected bidirectional AC-DC converters in stationary frame for microgrid application

Droop-Controlled Inverters with Seamless Transition between Islanding and Grid-Connected Operations

Experimental evaluation of voltage unbalance compensation in an islanded microgrid

Hierarchical Control Scheme for Voltage Harmonics Compensation in an Islanded Droop-Controlled Microgrid

Hierarchical Control Scheme for Voltage Unbalance Compensation in Islanded Microgrids

Modeling, analysis, and design of stationary reference frame droop controlled parallel three-phase voltage source inverters

Multilayer control for inverters in parallel operation without signal interconnection

Secondary control for voltage unbalance compensation in an islanded microgrid

Selective Compensation of Voltage Harmonics in a Grid-Connected Microgrid

Smart grid and renewable energy systems

Voltage Harmonic Compensation of a Microgrid Operating in Islanded and Grid-Connected Modes
Intelligent control agent for transient to an island grid

Microgrids: Integration of distributed energy resources into the smart-grid

Guest editorial: Editorial special issue on power electronics for microgrids - Part I

Hierarchical control of intelligent microgrids

Hierarchical control of power plants with microgrid operation

An integrated multifunction DC/DC converter for PV generation systems

Resonant current regulation for transformerless hybrid active filter to suppress harmonic resonances in industrial power systems

A simple control algorithm to avoid flux density bias in isolated full-bridge topologies

Design of an analog quasi-steady-state nonlinear current-mode controller for single-phase active power filter

Control design guidelines for single-phase grid-connected photovoltaic inverters with damped resonant harmonic compensators

Voltage support provided by a droop-controlled multifunctional inverter

Sliding-mode control for a single-phase AC/AC quantum resonant converter

Selective harmonic-compensation control for single-phase active power filter with high harmonic rejection
Sharing of active power supply and reactive power compensation for Parallel Inverters

Control strategy for flexible microgrid based on parallel line-interactive UPS systems

Flux DC bias and digital suppression scheme for isolated power factor correction converter

Droop control of a multifunctional PV inverter

Ride-through improvement of wind-turbines via feedback linearization

Adaptive nonlinear control of multiphase synchronous buck power converters

Analysis of flux density bias and digital suppression strategy for single-stage power factor corrector converter

Control of distributed uninterruptible power supply systems

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Linear current control scheme with series resonant harmonic compensator for single-phase grid-connected photovoltaic inverters

Feedback linearization of direct-drive synchronous wind-turbines via a sliding mode approach

Comparative study of hysteretic controllers for single-phase voltage regulators

Feedback linearization of a single-phase active power filter via sliding mode control

Reactive power compensation for parallel inverters without control interconnections in microgrid
Control of line-interactive UPS connected in parallel forming a microgrid

Droop control method with virtual output impedance for parallel operation of uninterruptible power supply systems in a microgrid

Parallel operation of uninterruptible power supply systems in MicroGrids

Author's reply [2]

Simple low-cost hysteretic controller for single-phase synchronous buck converters

Designing VRM hysteretic controllers For optimal transient response

Decentralized control for parallel operation of distributed generation inverters using resistive output impedance

Uninterruptible power supply systems provide protection

Decentralized control for parallel operation of distributed generation inverters in microgrids using resistive output impedance

Analysis, design and practical evaluation of an input-output linearization controller for the CLL-T dc-dc resonant converter

Droop control method for the parallel operation of online uninterruptible power systems using resistive output impedance

Wireless-control strategy for parallel operation of distributed-generation inverters

Feedback linearization control with average current sharing for multiphase synchronous buck converter
Wireless-control strategy for parallel operation of distributed generation inverters

Decentralized control for parallel operation of distributed generation inverters using resistive output impedance

One-cycle control for the parallel operation of synchronous buck converters

Simple feedback linearizing controller to reduce audiosusceptibility and load disturbance in the full-bridge current doubler synchronous rectifier

Steady-state invariant frequency and amplitude droop control using adaptive output impedance for parallel-connected UPS inverters

Design of voltage-mode hysteretic controllers for synchronous buck converters supplying microprocessor loads

Output impedance design of parallel-connected UPS inverters with wireless load-sharing control

Half-bridge CLL resonant rectifier with quantum mode control

Sliding-mode control of quantum series-parallel resonant converters via input-output linearization

Averaged large-signal model of single magnetic push-pull forward converter with built-in input filter

Output impedance design of parallel-connected UPS inverters

Simplified feedback linearization of a single-phase active power filter using sliding mode control

Parallel operation of Half-Bridge Converters with Current-Doubler Rectifier uUsing feedback linearization control

A simple sliding mode control of an active power filter
Output impedance performance for parallel operation of UPS inverters using wireless and average current-sharing controllers

A wireless controller to enhance dynamic performance of parallel inverters in distributed generation systems

A high-performance DSP-controller for parallel operation of online UPS systems

A Wireless Controller for Parallel Inverters in Distributed Online UPS Systems

A Sliding Mode Control of an Active Power Filter

Non-Linear Control of a Paralleled Half-Bridge Complementary-Control Converter System with a Single-Wire Current Sharing

A wireless load sharing controller to improve dynamic performance of parallel-connected UPS inverters

Simple nonlinear controller to reduce line and load disturbances in HBCC converter

A nonlinear feed-forward control technique for single-phase UPS inverters

Discrete non-linear control of a PWM inverter

Feedback sliding mode control linearization of a single phase active filter

A discrete sliding mode control of a buck-boost inverter

Steady-state invariant-frequency control of parallel redundant uninterruptible power supplies

Integral control technique for single-phase UPS inverter

Parallel operation of charge-controlled-DC-DC converters
Activities

Workshop: IoT-driven eNErgy sysTems (INET) - Advances and Applications
Amjad Anvari-Moghaddam (Lecturer), Yajuan Guan (Lecturer), Juan Carlos Vasquez Quintero (Lecturer) & Josep M. Guerrero (Lecturer)
30 Jul 2018

Special Issue "IoT and Energy Internet" (Event)
Josep M. Guerrero (Editor), Juan C. Vasquez (Editor) & Yajuan Guan (Editor)
26 Jul 2018 → 9 Sept 2019

Tutorial: Advances in Microgrids Control and Management
Amjad Anvari-Moghaddam (Lecturer), Qobad Shafiee (Lecturer), Hassan Bevrani (Lecturer) & Josep M. Guerrero (Lecturer)
20 Feb 2018 → 21 Feb 2018

Tutorial: The Internet of Energy - The Building Block for the Future Smart Grids
Mehdi Savaghebi (Lecturer), Juan Carlos Vasquez Quintero (Lecturer), Yajuan Guan (Lecturer) & Josep M. Guerrero (Lecturer)
29 Oct 2017

Special Section on "Energy Internet" (Event)
Josep M. Guerrero (Editor), Yajuan Guan (Editor), Juan C. Vasquez (Editor) & Kai Sun (Editor)
28 Aug 2017 → 31 Dec 2018

Keynote: Advanced Control Architectures of DC Microgrids
Josep M. Guerrero (Lecturer)
10 Jun 2015

Keynote Plenary session: Future challenges on microgrids and DC homes
Josep M. Guerrero (Lecturer)
21 May 2014

Keynote: Microgrid Technologies for Future Electric Vehicle Charging Stations
Josep M. Guerrero (Lecturer)
16 May 2014

Keynote: New technologies and future challenges on MicroGrid Research
Josep M. Guerrero (Speaker)
26 Mar 2014

Invited presentation: Advanced Control Architectures for Intelligent Microgrids
Josep M. Guerrero (Lecturer)
25 Aug 2011

Press clippings

40 nye medlemmer optaget i ATV i 2021
Brian Vejrums Wæhrens, Josep M. Guerrero, Kirsten Gram-Hanssen, Morten Mattrup Smedskjær, Zhe Chen, Lasse Rosendahl & Katja Hose
21/06/2021
1 item of Media coverage
55 danske forskere er blandt verdens mest citerede
Frede Blaabjerg, Josep M. Guerrero, Henrik Lund, Brian Vad Mathiesen, Per Halkjær Nielsen, Xiongfei Wang & Juan C. Vasquez
29/11/2021
1 item of Media coverage

Computer-professorat med Obelsk Støtte
Gert Frølund Pedersen, Josep M. Guerrero, Svend Birkelund & Mark Grimshaw
30/04/2012
16 items of Media coverage

Dansk forsker kåret som verdens bedste inden for elektroingeniørvidenskab
Frede Blaabjerg, Josep M. Guerrero, Remus Teodorescu, Zhe Chen, Juan C. Vasquez, Preben E. Mogensen, Klaus Ingemann Pedersen & Petar Popovski
31/03/2023 → 04/04/2023
3 items of Media coverage

Fornem hæder til AAU-professor
Josep M. Guerrero
06/12/2014
12 items of Media coverage

Forskning i fremtidens el-systemer
Josep M. Guerrero
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5 items of Media coverage

Mikroanlæg skal sikre bæredygtig energiforsyning
Josep M. Guerrero
28/05/2019
1 item of Media coverage

NAVNE I NOTER
Josep M. Guerrero
25/12/2013
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NAVNE I NOTER
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Navne i noter
Josep M. Guerrero
14/12/2014
1 item of Media coverage

Svinghjul kan give billigere strøm til søs
Josep M. Guerrero
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Syv forskere fra Aalborg Universitet på Clarivates "Highly Cited Researchers List 2017"
Frede Blaabjerg, Josep M. Guerrero, Henrik Lund, Brian Vad Mathiesen, Remus Teodorescu, Christian Torp-Pedersen & Juan Carlos Vasquez Quintero
21/11/2017
1 item of Media coverage
Villum Fonden udvælger 11 nye investigators
Josep M. Guerrero
02/05/2019
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Aalborgprofessor skal udvikle bæredygtig energiforsyning
Josep M. Guerrero
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Projects

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