Resistive current waveform as a tool to identify degraded parts of polymeric surge arresters subjected to internal moisture
Research output: Scientific - peer-review › Conference contribution

Aspects of moisture ingress in polymer housed surge arresters
Research output: Scientific - peer-review › Article

Effects of PV array layout, electrical configuration and geographic orientation on mismatch losses caused by moving clouds
Research output: Scientific - peer-review › Article

Utilization Possibilities of Electrical Energy Storages in Households’ Energy Management in Finland
Research output: Scientific - peer-review › Article

Simulation Environment for Centralized Protection and Control applying dSPACE and RTDS with IEC 61850 9-2 Communication
Research output: Scientific - peer-review › Conference contribution

Development and Testing of New Equipment for Faulty Phase Earthing Applying RTDS
Research output: Scientific - peer-review › Review Article

Development of Modern Phase Earthing System for Improving Quality of Supply in MV Network
Research output: Scientific - peer-review › Review Article

A comparative study between surge arrester monitoring through capacitive/resistive measurement bridge and digital decomposition
Research output: Scientific - peer-review › Conference contribution

Detection of Subsynchronous Torsional Oscillation Frequencies Using Phasor Measurement
Research output: Scientific - peer-review › Article

Improving Disturbance Management with Combined Electricity and Mobile Network Situation Awareness System
Research output: Scientific - peer-review › Article

Pohjoismaiden energiapolitiikka 2030: Hiilineutraalimpaan energiajärjestelmään osin yhdessä, osin eri polkuja pitkin
Research output: Professional › Discussion paper

Tammikuun tehopiiikki – mitä tapahtui 7.1.2016? Miten tehoa hallitaan paremmin jatkossa?
Research output: Professional › Discussion paper

Single-source multibattery solar charger: Case study and implementation issues
Research output: Scientific - peer-review › Article

Factors Affecting Efficiency of LVDC Distribution Network – Power Electronics Perspective
Rekola, J. 20 Nov 2015 Tampere University of Technology. 133 p. (Tampere University of Technology. Publication; vol. 1340)
Research output: Monograph › Doctoral Thesis

Aspects of Electric Vehicles and Demand Response in Electricity Grids
Rautiainen, A. 6 Nov 2015 Tampere University of Technology. 80 p. (Tampere University of Technology. Publication; vol. 1327)
Research output: Collection of articles › Doctoral Thesis

A Versatile Solution for Continuous On-line PD Monitoring
Research output: Scientific - peer-review › Conference contribution

Performance analysis of Q-f droop anti-islanding protection in the presence of mixed types of DG
Research output: Scientific - peer-review › Conference contribution

Smart Frequency Control in Power Transmission Systems Using a BESS
Research output: Scientific - peer-review › Conference contribution

Methodology for Dynamic Stability and Robustness Analysis of Commercial-Power-Module-Based DC-Distributed Systems
Vesti, S. 9 Oct 2015 Tampere University of Technology. 147 p. (Tampere University of Technology. Publication; vol. 1326)
Research output: Monograph › Doctoral Thesis

Partial discharge activity in distribution MOSAs due to internal moisture
Research output: Scientific - peer-review › Conference contribution

Compensation of PV generator output power fluctuations with energy storage systems
Research output: Scientific - peer-review › Conference contribution

Recognition of shading events caused by moving clouds and determination of shadow velocity from solar radiation measurements
Research output: Scientific - peer-review › Conference contribution

Risk Assessment of Major Storm Situation in Distribution System
Dehghani, N., Supponen, A. & Repo, S. 1 Sep 2015 2015 50th International Universities Power Engineering Conference (UPEC). IEEE
Research output: Scientific - peer-review › Conference contribution
Low-Voltage DC Distribution—Utilization Potential in a Large Distribution Network Company

Improved adaptive input voltage control of a solar array interfacing current mode controlled boost power stage
Sitbon, M., Schacham, S., Suntio, T. & Kuperman, A. 1 Jul 2015 In : Energy Conversion and Management. 98, p. 369-375

Real-Time Low Voltage Network Monitoring - ICT Architecture and Field Test Experience

Change Detection of Electric Customer Behavior Based on AMR measurements

Monetary impact of dynamic pricing and demand response on households: The winners and losers

A communication based protection system for solving DG related protection challenges

Demonstration of the Inter-Organizational Situation Awareness System to Major Disturbances

Implementation Possibilities of Power-based Distribution Tariff by Using Smart Metering Technology

Modelling of simultaneous fault to reliability enhancement in distribution system

Novel Sensor Solutions for On-Line PD Monitoring

Practical Implementation of Demand Response in Finland
Research output: Scientific - peer-review › Conference contribution

Reserve Power – Alternative Solution to the Network Investments in Rural Area Networks?

Research output: Scientific - peer-review › Conference contribution

A novel VSC-HVDC link model for dynamic power system simulations

Research output: Scientific - peer-review › Article

Demand Side Management In Open Electricity Markets from Retailer Viewpoint

Research output: Scientific - peer-review › Conference contribution

Product level accelerated reliability testing of motor drives with input power interruptions

Research output: Scientific - peer-review › Article

Role of public regulators in demand response business ecosystem - Case New York State electric power market

Research output: Scientific - peer-review › Conference contribution

Comprehensive dynamic analysis of photovoltaic generator interfacing DC-DC boost power stage

Research output: Scientific - peer-review › Article

Matlab/Simulink modeling to study the effect of partially shaded condition on photovoltaic array's maximum power point

Research output: Scientific - peer-review › Article

A Finite Element Simulation Tool for Predicting Hysteresis Losses in Superconductors Using an H-Oriented Formulation with Cohomology Basis Functions

Research output: Scientific - peer-review › Article

Evolving Smart Meter Data Driven Model for Short-Term Forecasting of Electric loads

Research output: Scientific - peer-review › Conference contribution

Dynamics of photovoltaic-generator-interfacing voltage-controlled buck power stage

Research output: Scientific - peer-review › Article

Driving pattern analysis of Nordic region based on National Travel Surveys for electric vehicle integration
An accurate small-signal model of a three-phase VSI-based photovoltaic inverter with LCL-filter
Research output: Scientific - peer-review › Conference contribution

Appearance of a Drift Problem in Variable-step Perturbative MPPT Algorithms
Research output: Scientific - peer-review › Conference contribution

Closure to Discussion on "Effect of Multilevel Inverter Supply on Core Losses in Magnetic Materials and Electrical Machines"
Research output: Scientific › Article

Comments on An Efficient Partial Power Processing DC/DC Converter for Distributed PV Architectures
Research output: Scientific › Article

Designing Inter-Organizational SA System to Disturbances of Electricity Supply
Research output: Professional › Working paper

Dielectric Breakdown Strength of Thermally Sprayed Ceramic Coatings: Effects of Different Test Arrangements
Research output: Scientific - peer-review › Article

Dynamic characteristics of three-phase Z-source-based photovoltaic inverter with asymmetric impedance network
Research output: Scientific - peer-review › Conference contribution

Effect of active damping on the output impedance of PV inverter
Research output: Scientific - peer-review › Conference contribution

Harmonic and Imbalance Voltage Mitigation in Smart Grids: A DSTATCOM Based Solution
Research output: Scientific - peer-review › Conference contribution

Interfacing renewable energy sources for maximum power transfer-Part II: Dynamics
Research output: Scientific - peer-review › Article

Kysynnän jousto - Suomeen soveltuvat käytännön ratkaisut ja vaikutukset verkkoyhtiöille (DR pooli): Loppuraportti
Research output: Professional › Commissioned report
On the Provision of Frequency Regulation in Low Inertia AC Grids Using HVDC Systems
Research output: Scientific - peer-review › Article

Principles of designing for situation awareness
Haapanen, J. 2015 Tampere: Maanpuolustuskorkeakoulu Sotatekniikan laitosa, p. 29-46 (Situational awareness for critical infrastructure protection; vol. 3, no. 1)
Research output: Professional › Working paper

Single-source multi-battery solar charger: Analysis and stability issues
Research output: Scientific - peer-review › Article

Smart Grids with Large-Scale Implementation of Automatic Meter Reading: Experiences from Finland
Research output: Scientific - peer-review › Chapter

MO Surge Arresters Stresses and Test Procedures: CIGRE Technical Brochure, WG A3.17
Research output: Professional › Commissioned report