Employment
Senior Scientist
BA2603 Power systems and renewables
VTT Technical Research Centre of Finland
11 Jun 2019 → present

Research outputs

Improving PV Dynamic Hosting Capacity Using Adaptive Controller for STATCOMs

Improving Hosting Capacity of Rooftop PVs by Quadratic Control of an LV-Central BSS

Small-signal stability improvement of an islanded microgrid with electronically-interfaced distributed energy resources in the presence of parametric uncertainties

The potential of distribution grid as an alternative source for reactive power control in transmission grid

Improving PV Hosting Capacity of Distribution Grids Considering Dynamic Voltage Characteristic

Improvement of RES hosting capacity using a central energy storage system

Multi-agent transactive energy management system considering high levels of renewable energy source and electric vehicles

Transactive demand side management programs in smart grids with high penetration of EVs

Efficient indirect real-time EV charging method based on imperfect competition market
Electrical market management considering power system constraints in smart distribution grids
Divshali, P. H. & Choi, B. J., 25 May 2016, In : Energies. 9, 6, 405.

Stability preservation and power management in autonomous microgrids using adaptive nonlinear droop scheme

A novel multi-stage fuel cost minimization in a VSC-based microgrid considering stability, frequency, and voltage constraints

Enhancing small signal stability and reactive power-sharing accuracy in autonomous microgrids by a new decentralized reactive power controller

Decentralized cooperative control strategy of microsources for stabilizing autonomous VSC-based microgrids

Small-signal stability and load-sharing improvement of autonomous microgrids using auxiliary loop

Decentralized VSC-based microgrid's general power flow

Application of bifurcation theory in dynamic security constrained optimal dispatch in deregulated power system

Stability constrained optimal power flow in deregulated power systems

Novel Approach for Determination of Worst Loading Direction and Fast Prediction of Stability Margin in Power Systems

Reliable prediction of Hopf bifurcation in power systems

Economic dispatch in multi-area using particle swarm optimization in electricity market

Optimal placement of multiple STATCOM
Optimal placement of multiple STATCOM for voltage stability margin enhancement using particle swarm optimization