Bjarne Poulsen - DTU Orbit (13/01/2018)

Bjarne Poulsen
Associate Professor

Department of Applied Mathematics and Computer Science

Software Engineering

Postal address:
Asmussens Allé
303B, 052
2800
Kgs. Lyngby
Denmark
Email: bjpo@dtu.dk
Phone: 45255274
Web address: http://people.compute.dtu.dk/bjpo
Web: http://people.compute.dtu.dk/bjpo

Publications:

Smart Grid Communication Infrastructure Comparison
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Smart Grid Communication Middleware Comparison
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Smart Grid communication middleware comparison distributed control comparison for the internet of things
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Smart Grid Serialization Comparison
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Algebraic Varieties and System Design
Publication: Research › Ph.D. thesis – Annual report year: 2017

On the significance of the noise model for the performance of a linear MPC in closed-loop operation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Electric vehicle integration in a real-time market
Publication: Research › Ph.D. thesis – Annual report year: 2015

Generating Geospatially Realistic Driving Patterns Derived From Clustering Analysis Of Real EV Driving Data
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Ranking Entities in Networks via Lefschetz Duality
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Integrating Intelligent Electric Devices into Distributed Energy Resources in a Cloud-Based Environment
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Intelligent Electric Vehicle Integration - Domain Interfaces and Supporting Informatics
Publication: Research › Ph.D. thesis – Annual report year: 2013

Simulation Tool For Energy Consumption and Production: The development of a simulation tool for measuring the impact of a smart grid on a building
Utilizing a Flexibility Interface for Distributed Energy Resources Through a Cloud-Based Service
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Prediction and optimization methods for electric vehicle charging schedules in the EDISON project
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Economic Dispatch of Electric Energy Storage with Multi-service Provision
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Is micro-CHP price controllable under price signal controlled Virtual Power Plants?
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Developing Virtual Power Plant for Optimized Distributed Energy Resources Operation and Integration
Publication: Research › Ph.D. thesis – Annual report year: 2011

Electric Vehicle Fleet Integration in the Danish EDISON Project: A Virtual Power Plant on the Island of Bornholm
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Facilitating a generic communication interface to distributed energy resources: Mapping IEC 61850 to RESTful services
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

A Market-Based Virtual Power Plant
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

A study on electricity export capability of the μCHP system with spot price
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Generic Virtual Power Plants: Management of Distributed Energy Resources under Liberalized Electricity Market
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Using Service Oriented Architecture in a Generic Virtual Power Plant
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Ecogrid.dk Phase 1 WP4 report: New measures for integration of large scale renewable energy
Publication: Research › Report – Annual report year: 2008

Evaluation of a Generic Virtual Power Plant Framework Using Service Oriented Architecture
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Theoretical evaluation of a generic virtual power plant framework using service oriented principles
Publication: Research › Article in proceedings – Annual report year: 2008

A prototype of a documentation system that supports the development and maintenance of product configuration systems
Publication: Research - peer-review › Journal article – Annual report year: 2007

Creating a documentation system to support the development and maintenance of product configuration systems
Publication: Research › Article in proceedings – Annual report year: 2007
Prototype of Generic Server for Wind Power Plants Using IEC 61400-25 Standard
Publication: Research - peer-review › Journal article – Annual report year: 2007

Prototype of generic server for wind power plants using IEC 61400-25 standard
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Implementation of Ecopower MINI CHP unit and the test facility
Publication: Research › Article in proceedings – Annual report year: 1998

Theoretical and experimental evaluation of an object oriented real-time robot control scheme
Publication: Research › Ph.D. thesis – Annual report year: 1995

Theoretical and experimental evaluation of an object oriented real-time servo control module
Publication: Research › Article in proceedings – Annual report year: 1995

An object oriented expert identifier system: Computing and control division
Publication: Research › Article in proceedings – Annual report year: 1994

Experimental evaluation of a tracking control scheme for a three link robot manipulator
Publication: Research › Article in proceedings – Annual report year: 1994

Object oriented modelling of multi-functional tactile sensing
Publication: Research › Article in proceedings – Annual report year: 1994

A multivariable control scheme based on LQG-control for a two link hydraulic test robot manipulator
Publication: Research › Article in proceedings – Annual report year: 1992

Projects:

Model Predictive Control based on Stochastic Differential Equations - An Artificial Pancreas with Fast Insulin, Glucagon and Multiple Sensors
Project: PhD

Reference architecture and infrastructure for modularity-based distributed control
Project: PhD

PROActive INtegration of sustainable energy resources enabling active distribution networks
Project

Dynamic Coverage and Flow Coordination in Multi-Agent Networks
Project: PhD

Electric vehicle integration in a real-time market
Project: PhD

Intelligent Electric Vehicle Integration - Domain Interfaces and Supporting Informatics
Project: PhD

Generic Virtual Power Plant for Micro Combined Heat and Power Units
Project: PhD
EcoGrid DK: 50% wind power in the Danish Electric Power System

Opbygning af et digitalt objektorienteret robotsystem som tilladerr integration af eksterne sensorer

Project: PhD