Smart grid communication infrastructure comparison-for distributed control of distributed energy resources using internet of things devices
Publication: Research - peer-review › Journal article – Annual report year: 2018

Smart grid communication comparison: Distributed control middleware and serialization comparison for the Internet of Things
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

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: 2018

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
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
Andersen, P. B., Østergaard, J., Poulsen, B. & Gantenbein, D. 2013 Kgs. Lyngby: Technical University of Denmark (DTU) . 188 p.
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
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

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
Andersen, P. B., Træholt, C., Marra, F., Poulsen, B., Binding, C., Gantenbein, D., Jansen, B. & Sundstroem, O. 2010
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
Hagdrup, M., Jørgensen, J. B., Madsen, H., Poulsen, B. & Poulsen, N. K. 01/09/2014 → 28/02/2018
Project: PhD

Reference architecture and infrastructure for modularity-based distributed control
Petersen, B. S., Bindner, H. W., Poulsen, B., You, S., Andersen, P. B., Deconinck, G. & Olsen, J. L. 01/06/2014 → 31/05/2017
Project: PhD
PROActive INtegration of sustainable energy resources enabling active distribution networks
Petersen, B. S., Poulsen, B., Bindner, H. W. & You, S.
01/01/2014 → 31/12/2017
Project

Dynamic Coverage and Flow Coordination in Multi-Agent Networks
15/05/2013 → 08/02/2017
Project: PhD

Electric vehicle integration in a real-time market
Pedersen, A. B., Østergaard, J., Gantenbein, D., Poulsen, B., Wu, Q., Jørgensen, P. & Kempton, W.
01/02/2011 → 18/03/2015
Project: PhD

Intelligent Electric Vehicle Integration - Domain Interfaces and Supporting Informatics
Andersen, P. B., Østergaard, J., Gantenbein, D., Poulsen, B., Bindner, H. W., Lopes, J. A. P. & Mølbak, T.
01/09/2009 → 23/09/2013
Project: PhD

Generic Virtual Power Plant for Micro Combined Heat and Power Units
You, S., Træholt, C., Poulsen, B., Rasmussen, C. N., Kempton, W. & Mølbak, T.
01/10/2007 → 23/03/2011
Project: PhD

EcoGrid DK: 50% wind power in the Danish Electric Power System
Østergaard, J., Lind, M., Nyeng, P., Xu, Z., Chandrashekhara, D. K., Poulsen, B., Horstmann, J. P. F., Chen, Y.,
Jóhannsson, H., Saleem, A., You, S., Garcia-Valle, R. & Vlachogiannis, I. (. 
01/05/2007 → 01/07/2008
Project

Opbygning af et digitalt objektorienteret robotsystem som tilladerr integration af eksterne sencorer
Poulsen, B., Jannerup, O. E. & Rasmussen, H.
01/02/1992 → 02/08/1995
Project: PhD