Spatio-temporal pattern formation in predator-prey systems with fitness taxis
Heilmann, I. T., Thygesen, U. H. & Sørensen, M. P. 1 May 2018 In : Ecological Complexity. 34, p. 44-57
Publication: Research - peer-review › Journal article – Annual report year: 2018

A General Microscopic Traffic Model Yielding Dissipative Shocks
Publication: Research - peer-review › Article in proceedings – Annual report year: 2018

Ancillary Services 4.0: A Top-To-Bottom Control-Based Approach for Solving Ancillary Services Problems in Smart Grids
Publication: Research - peer-review › Journal article – Annual report year: 2018

Carbon dioxide not suitable for extinguishment of smouldering silo fires: static electricity may cause silo explosion
Hedlund, F. H. 2018 In : Biomass & Bioenergy. 108, p. 113–119
Publication: Research - peer-review › Journal article – Annual report year: 2018

Characterizing the energy flexibility of buildings and districts
Publication: Research - peer-review › Journal article – Annual report year: 2018

Closed loop identification of a piezoelectrically controlled radial gas bearing: Theory and experiment
Publication: Research - peer-review › Journal article – Annual report year: 2018

Dangers of releasing CO₂ to fight fires in the cargo hold of seagoing bulk carriers
Hedlund, F. H. & Jarleivson Hilduberg, Ø. 2018
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2018

Dangers of using CO₂ to quench wood pellet silo fires
Publication: Communication › Internet publication – Annual report year: 2018

Detector design for active fault diagnosis in closed-loop systems
Publication: Research - peer-review › Journal article – Annual report year: 2018

Do Not Release Carbon Dioxide If Flammable Vapors Are Present – Static Electricity May Lead To Explosion
Hedlund, F. H. 2018 Electronic resource.
Publication: Communication › Internet publication – Annual report year: 2018

Dynamic Allocation or Diversification: A Regime-Based Approach to Multiple Assets
Publication: Research - peer-review › Journal article – Annual report year: 2018
Publication: Research - peer-review › Journal article – Annual report year: 2018

Estimating the Density of Fluid in a Pipeline System with an Electropump
Publication: Research - peer-review › Journal article – Annual report year: 2018

Fighting pellet silo fires
Hedlund, F. H. & Nichols, J. 2018 In : Pellet Mill Magazine. 8, 1, p. 9
Publication: Research - peer-review › Journal article – Annual report year: 2018

Incomplete understanding of biogas chemical hazards – Serious gas poisoning accident while unloading food waste at biogas plant
Publication: Research - peer-review › Journal article – Annual report year: 2018

Kuldioxid er uegnet til kvælning af glødebrande
Hedlund, F. H. 2018 In : Dansk Kemi. 99, 1, p. 16-19
Publication: Communication › Journal article – Annual report year: 2018

Land-use planning risk estimates for a chemical industrial park in China - A longitudinal study
Publication: Research - peer-review › Journal article – Annual report year: 2018

Length measurement methods of Atlantic mackerel (Scomber scombrus) and Atlantic horse mackerel (Trachurus trachurus) – current practice, conversion keys and recommendations
Publication: Research - peer-review › Journal article – Annual report year: 2018

Minisymposium: New Developments in Models of Traffic and Crowds
Publication: Research - peer-review › Article in proceedings – Annual report year: 2018

Modeling Clinic for Industrial Mathematics: A Collaborative Project Under Erasmus+ Program
Publication: Research - peer-review › Article in proceedings – Annual report year: 2018

Overnight glucose control in people with type 1 diabetes
Publication: Research - peer-review › Journal article – Annual report year: 2018

Polarization noise places severe constraints on coherence of all-normal dispersion femtosecond supercontinuum generation
Bravo Gonzalo, I., Engelsholm, R. D., Sørensen, M. P. & Bang, O. 2018 In : Scientific Reports. 8, 13 p., 6579
Publication: Research - peer-review › Journal article – Annual report year: 2018

Scattering of flexural waves in Euler-Bernoulli beams by short-range potentials: Paper
Silo response - The dangers of using carbon dioxide to quench silo fires
Hedlund, F. H. & Nichols, J. 2018 In : Canadian Biomass. 18, 2, p. 16-17
Publication: Communication › Journal article – Annual report year: 2018

Smart Buildings Retrofit Accelerator: "Making Housing Energy Renovation an Investment Opportunity"
Cali, D. & Rasmussen, C. 2018
Publication: Research - peer-review › Poster – Annual report year: 2018

Smart grids innovation challenge
Publication: Research - peer-review › Report chapter – Annual report year: 2018

Svovlsyres fortyndingsvarme
Publication: Communication › Journal article – Annual report year: 2018

Un tanque de levadura excedente falla con consecuencias catastróficas
Hedlund, F. H. & Selig, R. S. 2018 In : BRAUWELT En Español. 22, May, p. 76-79
Publication: Research - peer-review › Journal article – Annual report year: 2018

Wind Power Forecasting Based on Echo State Networks and Long Short-Term Memory
Publication: Research - peer-review › Journal article – Annual report year: 2018

WinProGen: A Markov-Chain-based stochastic window status profile generator for the simulation of realistic energy performance in buildings
Publication: Research - peer-review › Journal article – Annual report year: 2018

Online short-term forecast of greenhouse heat load using a weather forecast service
Publication: Research - peer-review › Journal article – Annual report year: 2017

Determination of thermal characteristics of standard and improved hollow concrete blocks using different measurement techniques
Publication: Research - peer-review › Journal article – Annual report year: 2017

Evaluation of pharmacokinetic model designs for subcutaneous infusion of insulin aspart
Publication: Research - peer-review › Journal article – Annual report year: 2017

Condition monitoring of a rotor arrangement in particular a wind turbine
Niemann, H. H., Poulsen, N. K., Mirzaei, M. & Henriksen, L. C. 8 Jun 2017
Publication: Research › Patent – Annual report year: 2017

Inhomogeneous Markov Models for Describing Driving Patterns
Publication: Research - peer-review › Journal article – Annual report year: 2017
A combined experimental and simulation based approach to model the flow-front dynamics in the vacuum assisted resin transfer moulding process.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2018

Adaptive control in an artificial pancreas for people with type 1 diabetes
Publication: Research - peer-review › Journal article – Annual report year: 2016

Adaptive Unscented Kalman Filter using Maximum Likelihood Estimation
Publication: Research - peer-review › Conference article – Annual report year: 2017

A deep learning approach to adherence detection for type 2 diabetics
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

A Dynamic Characterization of Energy Flexibility
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

Aggregation model for curtailable generation and sheddable loads
Publication: Research - peer-review › Conference article – Annual report year: 2017

An Adaptive Nonlinear Basal-Bolus Calculator for Patients With Type 1 Diabetes
Publication: Research - peer-review › Journal article – Annual report year: 2016

An Aerial Robot for Rice Farm Quality Inspection With Type-2 Fuzzy Neural Networks Tuned by Particle Swarm Optimization-Sliding Mode Control Hybrid Algorithm
Publication: Research - peer-review › Journal article – Annual report year: 2018

Analysis of trait-based models in marine ecosystems.
Publication: Research › Ph.D. thesis – Annual report year: 2017

An Efficient Robust Solution to the Two-Stage Stochastic Unit Commitment Problem
Publication: Research - peer-review › Journal article – Annual report year: 2017

An experimentally validated simulation model for a four-stage spray dryer
Publication: Research - peer-review › Journal article – Annual report year: 2017
An Improved Direction of Gradient-type Method for Large Scale Unconstrained Optimization
Publication: Research - peer-review › Journal article – Annual report year: 2017

Annex 67: Energy Flexible Buildings - Energy Flexibility as a key asset in a smart building future
Publication: Research › Report – Annual report year: 2018

A Robust Statistical Model to Predict the Future Value of the Milk Production of Dairy Cows Using Herd Recording Data
Publication: Research - peer-review › Journal article – Annual report year: 2017

A Stochastic Method to Manage Delay and Missing Values for In-Situ Sensors in an Alternating Activated Sludge Process
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Beskedent overtryk gav spektakulære følger
Hedlund, F. H. 2017 In : Kjemi. 77, 1, p. 16-18
Publication: Communication › Journal article – Annual report year: 2017

Biomass accident investigations – missed opportunities for learning and accident prevention
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Biomass Supply Planning for Combined Heat and Power Plants using Stochastic Programming
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Blygsamt övertryck fick spektakulära följder
Hedlund, F. H. 2017 In : Kemivärlden Biotech med Kemisk Tidsskrift. 2, p. 21-23
Publication: Research - peer-review › Journal article – Annual report year: 2017

Comparison of Different Classification Algorithms for the Detection of User's Interaction with Windows in Office Buildings
Publication: Research - peer-review › Conference article – Annual report year: 2017

Comparison of three control strategies for optimization of spray dryer operation
Publication: Research - peer-review › Journal article – Annual report year: 2017

Cross-Validation of a Glucose-Insulin-Glucagon Pharmacodynamics Model for Simulation using Data from Patients with Type 1 Diabetes
Publication: Research - peer-review › Journal article – Annual report year: 2017

Developing a simulation framework for safe and optimal trajectories considering drivers' driving style
Modeling Pharmacokinetics and Pharmacodynamics of Glucagon for Simulation of the Glucoregulatory System in Patients with Type 1 Diabetes.
Publication: Research › Ph.D. thesis – Annual report year: 2017

Modelling the thermal properties of large diameter fibre ropes
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

Multi-Period Trading via Convex Optimization
Publication: Research - peer-review › Journal article – Annual report year: 2017

Multi-site solar power forecasting using gradient boosted regression trees
Publication: Research - peer-review › Journal article – Annual report year: 2017

On site characterisation of the overall heat loss coefficient: comparison of different assessment methods by a blind validation exercise on a round robin test box
Publication: Research - peer-review › Journal article – Annual report year: 2018

Spatial bias and uncertainty in numerical weather predictions for urban runoff forecasts with long time horizons
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017
Stochastic Greybox Modeling for Control of an Alternating Activated Sludge Process
Publication: Research › Report – Annual report year: 2017

Stochastic model of wind-fuel cell for a semi-dispatchable power generation
Publication: Research - peer-review › Journal article – Annual report year: 2017

Stochastic Programming for Fuel Supply Planning of Combined Heat and Power Plants
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Svigt af inertgas purge medførte eksplosion i beholder
Hedlund, F. H. 2017 In : Dansk Kemi. 98, 1/2, p. 12-15
Publication: Communication › Journal article – Annual report year: 2017

Synergies between energy supply networks
Publication: Research - peer-review › Editorial – Annual report year: 2017

Tank für Überschusshefe versagt – mit katastrophalen Folgen
Hedlund, F. H. & Selig, R. S. 2017 In : Brauwelt. 157, 8-9, p. 229-232
Publication: Research - peer-review › Journal article – Annual report year: 2017

Thermal stratification built up in hot water tank with different inlet stratifiers
Publication: Research - peer-review › Journal article – Annual report year: 2017

Urban runoff forecasting with ensemble weather predictions
Pedersen, J. W., Courdent, V. A. T., Vezzaro, L., Madsen, H. & Mikkelsen, P. S. 2017
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Validation of a Simulation Model Describing the Glucose-Insulin-Glucagon Pharmacodynamics in Patients with Type 1 Diabetes
Publication: Research › Poster – Annual report year: 2017

Validation of the dynamic wake meander model with focus on tower loads: Paper
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Validation of the dynamic wake meander model with focus on tower loads: Paper
Publication: Research › Sound/Visual production (digital) – Annual report year: 2017

Warum ist es so schwierig, die lateralen Gleisstörungen durch Messungen der Fahrzeugdynamik zu bestimmen
Christiansen, L. E. & True, H. 2017 In : ZEV rail. p. 133 -139
Publication: Research - peer-review › Conference article – Annual report year: 2017

Why is it so difficult to determine the lateral Position of the Rails by a Measurement of the Motion of an Axle on a moving Vehicle?
A Comparison of Dynamics in Two Models for the Spread of a Vector-Borne Disease
Publication: Research - peer-review › Journal article – Annual report year: 2016

Active Fault Detection Based on a Statistical Test
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Adaptive Test Schemes for Control of Paratuberculosis in Dairy Cows
Publication: Research - peer-review › Journal article – Annual report year: 2016

A Data-Driven Bidding Model for a Cluster of Price-Responsive Consumers of Electricity
Publication: Research - peer-review › Journal article – Annual report year: 2016

An Efficient UD-Based Algorithm for the Computation of Maximum Likelihood Sensitivity of Continuous-Discrete Systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

An Ensemble Nonlinear Model Predictive Control Algorithm in an Artificial Pancreas for People with Type 1 Diabetes
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Publication: Research - peer-review › Report – Annual report year: 2016

Application of the Continuous-Discrete Extended Kalman Filter for Fault Detection in Continuous Glucose Monitors for Type 1 Diabetes
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Approaches for Accommodating Demand Response in Operational Problems and Assessing its Value
Publication: Research › Ph.D. thesis – Annual report year: 2016
**Economic valuation of heat pumps and electric boilers in the Danish energy system**


**Enhanced Subsea Acoustically Aided Inertial Navigation**


**Er sprængpladen vendt korrekt?**

Hedlund, F. H. 2016 In : Dansk Kemi. 97, 5, p. 41-42

**Experimentation and numerical modeling of cyclic voltammetry for electrochemical micro-sized sensors under the influence of electrolyte flow**


**Fatal Accidents During Marine Transport of Wood Pellets Due to Off-gassing – Experiences from Denmark**


**Har tanken et svagt tag?**

Hedlund, F. H. & Eisfeld Linde, B. 2016 In : Dansk Kemi. 97, 1-2, p. 20-21

**Hidden Markov Models for indirect classification of occupant behaviour**


**Impact of Inter- and Intra-Regional Coordination in Markets With a Large Renewable Component**


**Impacts of urban development and climate change in exposing cities to pluvial flooding**


**Industrial application of model predictive control to a milk powder spray drying plant**


**Integration of large-scale heat pumps in the district heating systems of Greater Copenhagen**

Kronik: Virksomheder med elitesmiley flyver under radaren
Hedlund, F. H. 2016 In : Ingenioeren. 27.05.2016, p. 6
Publication: Research › Journal article – Annual report year: 2016

Large Steel Tank Fails and Rockets to Height of 30 meters - Rupture Disc Installed Incorrectly
Hedlund, F. H., Selig, R. S. & Kragh, E. K. 2016 In : Safety and Health at Work. 7, 2, p. 130-137
Publication: Research - peer-review › Journal article – Annual report year: 2015

Learning from nature: Nature-inspired algorithms
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Load forecasting of supermarket refrigeration
Publication: Research - peer-review › Journal article – Annual report year: 2015

Methodologies for managing the Energy-Water-Food nexus at different scales
Publication: Commissioned - peer-review › Report chapter – Annual report year: 2016

Model Identification using Continuous Glucose Monitoring Data for Type 1 Diabetes
Publication: Research - peer-review › Conference article – Annual report year: 2016

Modeling and Control for Price Responsive Electricity Loads
Publication: Research › Ph.D. thesis – Annual report year: 2016

Modeling and Prediction Using Stochastic Differential Equations
Publication: Research - peer-review › Book chapter – Annual report year: 2016

Modeling the growth dynamics of multiple Escherichia coli strains in the pig intestine following intramuscular ampicillin treatment
Publication: Research - peer-review › Journal article – Annual report year: 2016
Modelling of glucose-insulin-glucagon pharmacodynamics in man
Publication: Research - peer-review › Paper – Annual report year: 2016

Modelling the glucose-insulin-glucagon dynamics after subcutaneous administration of native glucagon and a novel glucagon analogue in dogs
Publication: Research - peer-review › Poster – Annual report year: 2016

Modelling the glucose-insulin-glucagon dynamics after subcutaneous administration of native glucagon and a novel glucagon analogue in dogs
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Model of the Glucose-Insulin-Glucagon Dynamics after Subcutaneous Administration of a Glucagon Rescue Bolus in Healthy Humans
Publication: Research › Poster – Annual report year: 2016

Model of the Glucose-Insulin-Glucagon Dynamics after Subcutaneous Administration of a Glucagon Rescue Bolus In Healthy Humans
Publication: Research › Conference abstract for conference – Annual report year: 2016

Model Predictive Control of Sewer Networks
Publication: Research - peer-review › Conference article – Annual report year: 2017

Models to Estimate Lactation Curves of Milk Yield and Somatic Cell Count in Dairy Cows at the Herd Level for the Use in Simulations and Predictive Models
Publication: Research - peer-review › Journal article – Annual report year: 2016

MPC control of water supply networks
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Multistain models predict sequential multidrug treatment strategies to result in less antimicrobial resistance than combination treatment
Ahmad, A., Zachariasen, C., Christiansen, L. E., Græsbøll, K., Toft, N., Matthews, L., Olsen, J. E. & Nielsen, S. S. 2016 In : B M C Microbiology. 16, 1, 10 p., 118
Publication: Research - peer-review › Journal article – Annual report year: 2016

Non-parametric method for separating domestic hot water heating spikes and space heating
Publication: Research - peer-review › Journal article – Annual report year: 2016

Objective Classification of Rainfall in Northern Europe for Online Operation of Urban Water Systems Based on Clustering Techniques
Löwe, R., Madsen, H. & McSharry, P. 2016 In : Water. 8, 3, 87
Publication: Research - peer-review › Journal article – Annual report year: 2016
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

Oscillating nonlinear acoustic shock waves
Publication: Research - peer-review › Journal article – Annual report year: 2016

Pattern formation in annular systems of repulsive particles
Publication: Research - peer-review › Journal article – Annual report year: 2015

PK/PD modelling of glucose-insulin-glucagon dynamics in healthy dogs after a subcutaneous bolus administration of native glucagon or a novel glucagon analogue
Publication: Research › Report – Annual report year: 2016

Possible Power Estimation of Down-Regulated Offshore Wind Power Plants.
Publication: Research › Ph.D. thesis – Annual report year: 2016

Probabilistic Approaches to Energy Systems
Publication: Research › Ph.D. thesis – Annual report year: 2016

Probabilistic forecasting of the solar irradiance with recursive ARMA and GARCH models
Publication: Research - peer-review › Journal article – Annual report year: 2016

Probabilistic Forecasts of Wind Power Generation by Stochastic Differential Equation Models
Møller, J. K., Zugno, M. & Madsen, H. 2016 In : Journal of Forecasting. 35, April, p. 189-205
Publication: Research - peer-review › Journal article – Annual report year: 2016

Probabilistic runoff volume forecasting in risk-based optimization for RTC of urban drainage systems
Löwe, R., Vezzaro, L., Mikkelsen, P. S., Grum, M. & Madsen, H. 2016 In : Environmental Modelling & Software. 80, p. 143-158
Publication: Research - peer-review › Journal article – Annual report year: 2016

Probing NWP model deficiencies by statistical postprocessing
Publication: Research - peer-review › Journal article – Annual report year: 2015

Real-Time Procurement Strategies of a Proactive Distribution Company with Aggregator-Based Demand Response
Publication: Research - peer-review › Journal article – Annual report year: 2016
Real-time Trading Strategies for Proactive Distribution Company with Distributed Generation and Demand Response.
Publication: Research › Ph.D. thesis – Annual report year: 2016

Short-term Probabilistic Forecasting of Wind Speed Using Stochastic Differential Equations
Publication: Research - peer-review › Journal article – Annual report year: 2015

Simulating the Epidemiological and Economic Impact of Paratuberculosis Control Actions in Dairy Cattle
Publication: Research - peer-review › Journal article – Annual report year: 2016

Madsen, H., Parvizi, J. & Bacher, P. 2016
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Smoothing a Piecewise-Smooth: An Example from Plankton Population Dynamics
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Statistical modelling using CTSM-R
Publication: Research › Ph.D. thesis – Annual report year: 2016

Stochastic Integrated Market for Electric Power and Natural Gas Systems
Publication: Research › Poster – Annual report year: 2016

Surplus yeast tank failing catastrophically
Hedlund, F. H. 2016 In : Brauwelt International. 34, 5, p. 354-357
Publication: Research › Journal article – Annual report year: 2016

Syrebrist och ambulansfärd av tårta
Hedlund, F. H. 2016 In : Kemivärlden Biotech med Kemisk Tidsskrift. 4, June, p. 24-26
Publication: Research › Journal article – Annual report year: 2016

The dynamics of magnetic vortices in type II superconductors with pinning sites studied by the time dependent Ginzburg–Landau model
Publication: Research - peer-review › Journal article – Annual report year: 2016

Thermal properties of Fiber ropes
Bossolini, E., Nielsen, O. W., Oland, E., Sørensen, M. P. & Veje, C. 2016
Publication: Research - peer-review › Paper – Annual report year: 2017

Tolerance of continuous NFT spectrum to the optical fiber channel impairments
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016
A Bolus Calculator Based on Continuous-Discrete Unscented Kalman Filtering for Type 1 Diabetics
Publication: Research - peer-review › Conference article – Annual report year: 2015

A Continuous-Discrete Extended Kalman Filter for State and Parameter Estimation in People with Type 1 Diabetes
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Active Fault Diagnosis in Sampled-data Systems
Publication: Research - peer-review › Conference article – Annual report year: 2015

Adaptive Backstepping Control of Lightweight Tower Wind Turbine
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

A Homogeneous and Self-Dual Interior-Point Linear Programming Algorithm for Economic Model Predictive Control
Publication: Research - peer-review › Journal article – Annual report year: 2015

An artificial pancreas for automated blood glucose control in patients with Type 1 diabetes
Schmidt, S., Boiroux, D., Ranjan, A., Jørgensen, J. B., Madsen, H. & Nørgaard, K. 2015 In : Therapeutic Delivery. 6, 5, p. 211-221
Publication: Research - peer-review › Journal article – Annual report year: 2015

A Non-linear Stochastic Model for an Office Building with Air Infiltration
Publication: Research - peer-review › Journal article – Annual report year: 2015

A robust optimization approach to energy and reserve dispatch in electricity markets
Publication: Research - peer-review › Journal article – Annual report year: 2015

A smart rotor configuration with linear quadratic control of adaptive trailing edge flaps for active load alleviation
Publication: Research - peer-review › Journal article – Annual report year: 2014

Bi-hormonal Closed-loop Control of Blood Glucose for People With Type 1 Diabetes - the Diacon Project
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2015

Bi-hormonal control of blood glucose in people with type 1 diabetes
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Characterising the Actual Thermal Performance of Buildings: Current Results of Common Exercises Performed in the Framework of the IEA EBC Annex 58-Project
Publication: Research - peer-review › Conference article – Annual report year: 2015
Economic Dispatch of Demand Response Balancing through Asymmetric Block Offers
Publication: Research - peer-review › Journal article – Annual report year: 2015

Economic Model Predictive Control for Large-Scale and Distributed Energy Systems
Publication: Research › Ph.D. thesis – Annual report year: 2015

Estimation of Parametric Fault in Closed-loop Systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Experimental bifurcation analysis—Continuation for noise-contaminated zero problems
Schilder, F., Bureau, E., Santos, I. F., Thomsen, J. J. & Starke, J. 2015 In : Journal of Sound and Vibration. 358, p. 251-266
Publication: Research - peer-review › Journal article – Annual report year: 2015

Experimental verification of a real-time power curve for down-regulated offshore wind power plants
Giebel, G., Göçmen Bozkurt, T., Sørensen, P. E., Réthoré, P.-E., Poulsen, N. K., Mirzaei, M., Skjelmose, M. R. & Kristoffersen, J. R. 2015
Publication: Research › Poster – Annual report year: 2015

High-Performance Small-Scale Solvers for Moving Horizon Estimation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Hydrodynamics studies of cyclic voltammetry for electrochemical micro biosensors
Publication: Research - peer-review › Journal article – Annual report year: 2015

iCull – A bioeconomic model for herd management and disease control
Kirkeby, C., Græsbøll, K., Nielsen, S. S., Christiansen, L. E., Toft, N. & Hisham Beshara Halasa, T. 2015
Publication: Research › Poster – Annual report year: 2015

Impact of forecast errors on expansion planning of power systems with a renewables target
Publication: Research - peer-review › Journal article – Annual report year: 2015

Integrated energy systems; aggregation, forecasting, and control
Publication: Research › Book chapter – Annual report year: 2015

Integrated energy systems modelling
Publication: Research - peer-review › Book chapter – Annual report year: 2015
Intraday Trading of Wind Energy
Publication: Research - peer-review › Journal article – Annual report year: 2015

Introduction to Statistics - eNotes
Publication: Education › Internet publication – Annual report year: 2015

Kage årsag til iltmangel og indlæggelse på hospital
Hedlund, F. H. 2015 In : Dansk Kemi. 96, 12, p. 14-17
Publication: Research › Journal article – Annual report year: 2015

Kommentarer til Modeller for Danske Fjorde og Kystnære Havområder
Publication: Commissioned › Report – Annual report year: 2016

Kommentarer til Modeller for Danske Fjorde og Kystnære Havområder - opfølgning
Publication: Commissioned › Other contribution – Annual report year: 2016

Limited area forecasting for wind energy scheduling
Publication: Research › Poster – Annual report year: 2015

Long memory of financial time series and hidden Markov models with time-varying parameters
Nystrup, P., Madsen, H. & Lindström, E. 2015
Publication: Research - peer-review › Paper – Annual report year: 2015

Mean effective sensitivity for Mycobacterium avium subsp paratuberculosis infection in cattle herds
Kirkeby, C., Græsbøll, K., Hisham Beshara Halasa, T., Toft, N. & Nielsen, S. S. 2015 In : B M C Veterinary Research. 11, 1, 6 p., 190
Publication: Research - peer-review › Journal article – Annual report year: 2015

Methodology and forecast products for the optimal offering of ancillary services from wind in a market environment
Publication: Research › Report – Annual report year: 2015

Numerical Modeling of Microelectrochemical Systems
Publication: Research › Ph.D. thesis – Annual report year: 2015

On the Inclusion of Energy-Shifting Demand Response in Production Cost Models: Methodology and a Case Study
Publication: Research › Report – Annual report year: 2015

Operational Strategies for a Portfolio of Wind Farms and CHP Plants in a Two-Price Balancing Market
Publication: Research - peer-review › Journal article – Annual report year: 2015

Parametric roll resonance monitoring using signal-based detection
Stochastic Greybox Modeling of an Alternating Activated Sludge Process
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Stochastic modelling of Listeria monocytogenes single cell growth in cottage cheese with mesophilic lactic acid bacteria from aroma producing cultures
11 p.
Publication: Research - peer-review › Journal article – Annual report year: 2015

Stochastic Unit Commitment via Progressive Hedging - Extensive Analysis of Solution Methods
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Stylised facts of financial time series and hidden Markov models in continuous time
Nystrup, P., Madsen, H. & Lindström, E. 2015 In : Quantitative Finance. 15, 9, p. 1531-1541
Publication: Research - peer-review › Journal article – Annual report year: 2015

Temporal knowledge discovery in big BAS data for building energy management
Publication: Research - peer-review › Journal article – Annual report year: 2015

The contribution of glucagon in an Artificial Pancreas for people with type 1 diabetes
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Thermal Performance Characterization using Time Series Data - IEA EBC Annex 58 Guidelines
Publication: Research › Report – Annual report year: 2015

Turbine Control Strategies for Wind Farm Power Optimization
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

A Comparison between Two Simulation Models for Spread of Foot-and-Mouth Disease
Publication: Research - peer-review › Journal article – Annual report year: 2014

Active fault detection in MIMO systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Active Fault Isolation in MIMO Systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014
Active load reduction by means of trailing edge flaps on a wind turbine blade
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

A Dantzig-Wolfe decomposition algorithm for linear economic model predictive control of dynamically decoupled subsystems
Publication: Research - peer-review › Journal article – Annual report year: 2014

Adaptive Passivity Based Individual Pitch Control for Wind Turbines in the Full Load Region
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

A Decomposition Algorithm for Mean-Variance Economic Model Predictive Control of Stochastic Linear Systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

A finite-element method model for droplets moving down a hydrophobic surface
Publication: Research - peer-review › Journal article – Annual report year: 2014

A Mean-Variance Criterion for Economic Model Predictive Control of Stochastic Linear Systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

A model predictive control strategy for the space heating of a smart building including cogeneration of a fuel cell-electrolyzer system
Publication: Research - peer-review › Journal article – Annual report year: 2014

An Iterative Method for the Approximation of Fibers in Slow-Fast Systems
Publication: Research - peer-review › Journal article – Annual report year: 2014

Application of Constrained Linear MPC to a Spray Dryer
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

A Reduced Dantzig-Wolfe Decomposition for a Suboptimal Linear MPC
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Assessment of Model Predictive and Adaptive Glucose Control Strategies for People with Type 1 Diabetes
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015
Association of MAP specific ELISA-responses and productive parameters in 314 Danish dairy farms
Græsbøll, K., Nielsen, S. S., Hisham Beshara Halasa, T., Kirkeby, C., Toft, N. & Christiansen, L. E. 2014
Publication: Research - peer-review › Poster – Annual report year: 2014

Association of map specific ELISA-responses and productive parameters in 367 Danish dairy farms
Græsbøll, K., Nielsen, S. S., Hisham Beshara Halasa, T., Kirkeby, C., Toft, N. & Christiansen, L. E. 2014
Proceedings of the 12th International Colloquium on Paratuberculosis (ICP). Parma, Italy: International Association for Paratuberculosis, p. 139-141
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Automatic Classification of Offshore Wind Regimes With Weather Radar Observations
Publication: Research - peer-review › Journal article – Annual report year: 2014

Benefits and challenges of electrical demand response: A critical review
Publication: Research - peer-review › Journal article – Annual report year: 2014

Bifurcation analysis of a smoothed model of a forced impacting beam and comparison with an experiment
Elmegård, M., Krauskopf, B., Osinga, H. M., Starke, J. & Thomsen, J. J. 2014 In : Nonlinear Dynamics. 77, p. 951-966
Publication: Research - peer-review › Journal article – Annual report year: 2014

Bifurcation of learning and structure formation in neuronal maps
Publication: Research - peer-review › Journal article – Annual report year: 2014

Bihormonal model predictive control of blood glucose in people with type 1 diabetes
Batora, V., Tarnik, M., Murgas, J., Schmidt, S., Nørgaard, K., Poulsen, N. K., Madsen, H. & Jørgensen, J. B. 2014
Proceedings of the IEEE Conference on Control Applications (CCA), 2014. IEEE, p. 1693-1698
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Bio Inspired Algorithms in Single and Multiobjective Reliability Optimization
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Characterization of heat dynamics of an arctic low-energy house with floor heating
Publication: Research - peer-review › Journal article – Annual report year: 2014

CITIES: Centre for IT-Intelligent Energy Systems in Cities
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Coarse Analysis of Microscopic Models using Equation-Free Methods
Publication: Research › Ph.D. thesis – Annual report year: 2014

Coarse-grained particle model for pedestrian flow using diffusion maps
Publication: Research - peer-review › Journal article – Annual report year: 2014
Evaluation of Dynamical Downscaling Resolution Effect on Wind Energy Forecast Value for a Wind Farm in Central Sweden
Rosgaard, M. H., Hahmann, A. N., Nielsen, T. S., Sørensen, P. E., Madsen, H. & Giebel, G. 2014
Publication: Research - peer-review › Poster – Annual report year: 2015

Evaluation of Dynamical Downscaling Resolution Effect on Wind Energy Forecast Value for a Wind Farm in Central Sweden
Publication: Research › Poster – Annual report year: 2015

Evaluation of Dynamical Downscaling Resolution Effect on Wind Energy Forecast Value for a Wind Farm in Central Sweden
Publication: Research - peer-review › Poster – Annual report year: 2014

Experimental bifurcation analysis of an impact oscillator – Determining stability
Publication: Research - peer-review › Journal article – Annual report year: 2014

Experimental Bifurcation Analysis Using Control-Based Continuation
Publication: Research › Ph.D. thesis – Annual report year: 2014

Experiments in nonlinear dynamics using control-based continuation: Tracking stable and unstable response curves
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Exponential smoothing approaches for prediction in real-time electricity markets
Jónsson, T., Pinson, P., Nielsen, H. A. & Madsen, H. 2014 In : Energies. 7, 6, p. 3710-3732
Publication: Research - peer-review › Journal article – Annual report year: 2014

Full-scale test of trailing edge flaps on a Vestas V27 wind turbine: active load reduction and system identification
Publication: Research - peer-review › Journal article – Annual report year: 2013

How Fitness Reduced, Antimicrobial Resistant Bacteria Survive and Spread: A Multiple Pig - Multiple Bacterial Strain Model
Publication: Research - peer-review › Journal article – Annual report year: 2014

iCull - a herd-specific tool for financial evaluation of the impact of paratuberculosis
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

IEA Common Exercise 4: ARX, ARMAX and grey-box models for thermal performance characterization of the test box
Publication: Research › Report – Annual report year: 2014

Implicit methods for equation-free analysis: convergence results and analysis of emergent waves in microscopic traffic models
Neutrosophic Logic Applied to Decision Making
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Nonlinear Effects in Examples of Crowd Evacuation Scenarios
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Optimal charging of an electric vehicle using a Markov decision process
Publication: Research - peer-review › Journal article – Annual report year: 2014

Optimal vaccination strategies against vector-borne diseases
Publication: Research - peer-review › Journal article – Annual report year: 2014

På dynamikken fik han skik - og Abelpriisen til Sinai gik
Publication: Research › Journal article – Annual report year: 2014

Predicting Plasma Glucose From Interstitial Glucose Observations Using Bayesian Methods
Publication: Research - peer-review › Journal article – Annual report year: 2014

Predictive densities for day-ahead electricity prices using time-adaptive quantile regression
Jónsson, T., Pinson, P., Madsen, H. & Nielsen, H. A. 2014 In : Energies. 7, 9, p. 5523-5547
Publication: Research - peer-review › Journal article – Annual report year: 2014

Predictive Food Microbiology: new tools for risk assessment and dairy product development
Publication: Research › Ph.D. thesis – Annual report year: 2014

Probabilistic Forecasting for On-line Operation of Urban Drainage Systems
Publication: Research › Ph.D. thesis – Annual report year: 2014

Probabilistic Forecasts of Solar Irradiance by Stochastic Differential Equations
Publication: Research - peer-review › Journal article – Annual report year: 2013

Probabilistic forecasts of wind power generation accounting for geographically dispersed information
Publication: Research - peer-review › Journal article – Annual report year: 2014

Probabilistic modelling in urban drainage – two approaches that explicitly account for temporal variation of model errors
Löwe, R., Del Giudice, D., Mikkelsen, P. S., Rickermann, J. & Madsen, H. 2014
Publication: Research - peer-review › Paper – Annual report year: 2014
Probabilistic online runoff forecasting for urban catchments using inputs from rain gauges as well as statically and dynamically adjusted weather radar
Publication: Research - peer-review › Journal article – Annual report year: 2014

Redefining the merit order of stochastic generation in forward markets.
Publication: Research - peer-review › Journal article – Annual report year: 2014

Regulating Power from Supermarket Refrigeration
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Relative Lyapunov Center Bifurcations
Publication: Research - peer-review › Journal article – Annual report year: 2014

Reliability in the Power System Modeled in a Multi-Stage Stochastic Mixed Integer Programming Model
Simonsen Nielsen, M. P. 2014
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Redefining the merit order of stochastic generation in forward markets.
Publication: Research - peer-review › Journal article – Annual report year: 2014

Risk-Based Model Predictive Control of Urban Drainage Networks: When Uncertainty matters
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Setting up and validating a complex model for a simple homogeneous wall
Publication: Research - peer-review › Journal article – Annual report year: 2014

Stochastic rainfall-runoff forecasting: parameter estimation, multi-step prediction, and evaluation of overflow risk
Publication: Research - peer-review › Journal article – Annual report year: 2013

Unidirectionally Coupled Map Lattices with Nonlinear Coupling: Unbinding Transitions and Superlorg Transients
Publication: Research - peer-review › Journal article – Annual report year: 2014

Waste Water Treatment Plants and the Smart Grid
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Weather radars – the new eyes for offshore wind farms?
Publication: Research - peer-review › Journal article – Annual report year: 2013
Wind economics
Publication: Research - peer-review › Book chapter – Annual report year: 2014

Wind resource assessment and wind power forecasting
Publication: Research - peer-review › Book chapter – Annual report year: 2014

Wind Speed Estimation and Parameterization of Wake Models for Downregulated Offshore Wind Farms
Göçmen Bozkurt, T., Giebel, G., Poulsen, N. K. & Mirzaei, M. 2014
Publication: Research - peer-review › Poster – Annual report year: 2014

Wind Speed Estimation and Parameterization of Wake Models for Downregulated Offshore Wind Farms within the scope of PossPOW Project
Publication: Research - peer-review › Conference article – Annual report year: 2014

Abelpris til Pierre Deligne for banebrydende matematisk rapsodi om de algebraiske ligningers geometri
Publication: Research › Journal article – Annual report year: 2014

A bilevel model for electricity retailers’ participation in a demand response market environment
Publication: Research - peer-review › Journal article – Annual report year: 2013

A Coordination Scheme for Distributed Model Predictive Control: Integration of Flexible DERs
Publication: Research - peer-review › Conference article – Annual report year: 2013

Adaptive Trailing Edge Flaps for Active Load Alleviation in a Smart Rotor Configuration
Bergami, L., Gaunaa, M., Poulsen, N. K. & Buhl, T. 2013 DTU Wind Energy. 308 p. (DTU Wind Energy PhD; No. 0020(EN)).
Publication: Research › Ph.D. thesis – Annual report year: 2013

A Grey-Box Model for Spray Drying Plants
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

An arctic low-energy house as experimental setup for studies of heat dynamics of buildings
Andersen, P. H. D., Rode, C. & Madsen, H. 2013 In : Frontiers of Architectural Research. 2, 4, p. 488-499
Publication: Research - peer-review › Journal article – Annual report year: 2013

An MPC approach to individual pitch control of wind turbines using uncertain LIDAR measurements
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013
A non-parametric method for correction of global radiation observations
Publication: Research - peer-review › Journal article – Annual report year: 2013

A Robust Optimization Approach to Energy and Reserve Dispatch in Electricity Markets
Publication: Research › Report – Annual report year: 2013

A simplified dynamic inflow model and its effect on the performance of free mean wind speed estimation
Publication: Research - peer-review › Journal article – Annual report year: 2013

Calculation of alternating current losses in stacks and coils made of second generation high temperature superconducting tapes for large scale applications
Publication: Research - peer-review › Journal article – Annual report year: 2013

Chance-constrained optimization of demand response to price signals
Dorini, G. F., Pinson, P. & Madsen, H. 2013 In : IEEE Transactions on Smart Grid. 4, 4, p. 2072-2080
Publication: Research - peer-review › Journal article – Annual report year: 2014

Clinical Data for Advanced Glucose Modeling
Publication: Research › Report – Annual report year: 2013

Comparing control strategies against foot-and-mouth disease: Will vaccination be cost-effective in Denmark?
Publication: Research - peer-review › Journal article – Annual report year: 2013

Computational Efficiency of Economic MPC for Power Systems Operation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Controlling Electricity Consumption by Forecasting its Response to Varying Prices
Publication: Research - peer-review › Journal article – Annual report year: 2012

Controlling traffic jams by time modulating the safety distance
Publication: Research - peer-review › Journal article – Annual report year: 2013

Decentralized Large-Scale Power Balancing
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Decisions on control of foot-and-mouth disease informed using model predictions
Decisions on foot-and-mouth disease control informed by model prediction

Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Discrimination ability of the Energy score

Publication: Research › Report – Annual report year: 2013

Dynamical System Approaches to Combinatorial Optimization

Publication: Research - peer-review › Book chapter – Annual report year: 2013

Early Termination of Dantzig-Wolfe Algorithm for Economic MPC

Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Energy Comes Together in Denmark: The Key to a Future Fossil-Free Danish Power System

Publication: Research - peer-review › Journal article – Annual report year: 2013

Exercise effects in a virtual type 1 diabetes patient: Using stochastic differential equations for model extension

Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2013

Exotic states of bouncing and walking droplets

Publication: Research - peer-review › Journal article – Annual report year: 2013

Experimental bifurcation analysis of an impact oscillator - Tuning a non-invasive control scheme
Bureau, E., Schilder, F., Santos, I., Thomsen, J. J. & Starke, J. 2013 In : Journal of Sound and Vibration. 332, 22, p. 5883–5897

Publication: Research - peer-review › Journal article – Annual report year: 2013

Faraday waves in quasi-one-dimensional superfluid Fermi-Bose mixtures

Publication: Research - peer-review › Journal article – Annual report year: 2013

Following a drop of water from the cloud, throughout the sewer system, into the receiving water - Model predictive control of integrated sewer-wastewater treatment systems

Publication: Research - peer-review › Paper – Annual report year: 2013

Forecasting Electricity Spot Prices Accounting for Wind Power Predictions

Publication: Research - peer-review › Journal article – Annual report year: 2014
Forecasting Production Losses at a Swedish Wind Farm
Publication: Research › Sound/Visual production (digital) – Annual report year: 2013

Forecasting the conditional dynamic elasticity of electricity consumers
Publication: Research - peer-review › Journal article – Annual report year: 2013

Frequency-Weighted Model Predictive Control of Trailing Edge Flaps on a Wind Turbine Blade
Publication: Research - peer-review › Journal article – Annual report year: 2013

Frequency weighted model predictive control of wind turbine
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Grey-box Modeling for System Identification of Household Refrigerators: a Step Toward Smart Appliances
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Guideline Adherence of Antithrombotic Treatment Initiated by General Practitioners in Patients With Nonvalvular Atrial Fibrillation: A Danish Survey
Publication: Research - peer-review › Journal article – Annual report year: 2014

Havvindmølleparker og deres indflydelse på fisk - et casestudy fra Horns Rev havvindmøllepark
Publication: Research › Conference abstract for conference – Annual report year: 2013

Impact of Wind Power Generation on European Cross-Border Power Flows
Publication: Research - peer-review › Journal article – Annual report year: 2013

Implementation of an integrated real-time control system of sewer system and waste water treatment plant in the city of Wilhelmshaven
Publication: Research - peer-review › Journal article – Annual report year: 2013

Informal uncertainty analysis (GLUE) of continuous flow simulation in a hybrid sewer system with infiltration inflow - Consistency of containment ratios in calibration and validation?
Publication: Research - peer-review › Journal article – Annual report year: 2013

Inhomogeneous Markov Models for Describing Driving Patterns
Publication: Research › Report – Annual report year: 2013
Investigating the use of stochastic forecast for RTC of urban drainage systems
Publication: Research - peer-review › Paper – Annual report year: 2013

Kanalnetz- und Kläranlagenzuflusssteuerung am Beispiel des Einzugsgebiets Wilhelmshaven
Publication: Research - peer-review › Journal article – Annual report year: 2013

Load forecasting for supermarket refrigeration
Publication: Research › Report – Annual report year: 2013

Low-energy house in Sisimiut - Data overview
Publication: Research › Report – Annual report year: 2013

Low-energy house in Sisimiut - Measurement equipment
Publication: Research › Report – Annual report year: 2013

Model-Based Closed-Loop Glucose Control in Type 1 Diabetes: The DiaCon Experience
Publication: Research - peer-review › Journal article – Annual report year: 2013

Model Identification Using Stochastic Differential Equation Grey-Box Models in Diabetes
Publication: Research - peer-review › Journal article – Annual report year: 2013

Modelling the Effect of Exercise on Insulin Pharmacokinetics in "Continuous Subcutaneous Insulin Infusion" Treated Type 1 Diabetes Patients
Publication: Research › Report – Annual report year: 2013

Model Predictive Control of Wind Turbines using Uncertain LIDAR Measurements
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Models for the energy performance of low-energy houses
Publication: Research › Ph.D. thesis – Annual report year: 2013

Monitoring and characterizing offshore wind variability with weather radars for wind energy applications
Trombe, P.-J. & Pinson, P. 2013
Relevance in the utility computing era: Towards reliable Fog computing
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Short-term heat load forecasting for single family houses
Publication: Research - peer-review › Journal article – Annual report year: 2013

Short-term wind power forecasting: probabilistic and space-time aspects
Publication: Research › Ph.D. thesis – Annual report year: 2013

Simulated effects of changes in herd sizes and densities with regard to fmd outbreaks in Denmark
Boklund, A., Christiansen, L. E., Hisham Beshara Halasa, T. & Enøe, C. 2013
Publication: Research - peer-review › Poster – Annual report year: 2013

Simulation of annual electric lighting demand using various occupancy profiles
Publication: Research - peer-review › Journal article – Annual report year: 2012

Simulation of Listeria monocytogenes single cell colonial growth
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Sizing of Microparticles from Angular Scattering Ratio
Hjorth, P. G. & Karamehmedovic, M. 2013
Publication: Research - peer-review › Paper – Annual report year: 2013

Solar/electric heating systems for the future energy system
Publication: Research - peer-review › Report – Annual report year: 2013

Space-time scenarios of wind power generation produced using a Gaussian copula with parametrized precision matrix
Publication: Research › Report – Annual report year: 2013

State-space adjustment of radar rainfall and skill score evaluation of stochastic volume forecasts in urban drainage systems
Publication: Research - peer-review › Journal article – Annual report year: 2012

Statistical aspects of fish stock assessment
Publication: Research › Ph.D. thesis – Annual report year: 2014

Statistical Modelling of Wind Proles - Data Analysis and Modelling
Stochastic control of traffic patterns
Gaididei, Y. B., Gorria, C., Berkemer, R., Christiansen, P. L., Kawamoto, A., Sørensen, M. P. & Starke, J. 2013 In : Networks and Heterogeneous Media. 8, 1, p. 261-273

Stochastic Differential Equations in Artificial Pancreas Modelling

Stochastic runoff forecasting and real time control of urban drainage systems

Stochastic runoff forecasting and real time control of urban drainage systems

Strategies for fitting nonlinear ecological models in R, AD Model Builder, and BUGS

Subdural to subgaleal EEG signal transmission: The role of distance, leakage and insulating affectors

The Potential of Economic Model Predictive Control for Spray Drying Plants

The range of attraction for light traps catching Culicoides biting midges

The range of attraction for light traps catching Culicoides biting midges

The range of attraction for light traps catching Culicoides biting midges (Diptera: Ceratopogonidae)
Thermal Storage Power Balancing with Model Predictive Control
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

The smart grid research network: Road map for Smart Grid research, development and demonstration up to 2020
Publication: Research - peer-review › Report – Annual report year: 2013

Using forecast information for storm ride-through control
Publication: Research › Sound/Visual production (digital) – Annual report year: 2013

Using forecast information for storm ride-through control
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Viscoelastic Modelling of Road Deflections for use with the Traffic Speed Deflectometer
Publication: Research › Ph.D. thesis – Annual report year: 2013

Weather radars for wind energy applications
Publication: Research › Poster – Annual report year: 2013

Wind Power Forecasting with a Focus on Risk and Uncertainties
Publication: Research › Sound/Visual production (digital) – Annual report year: 2013

A formal statistical approach to representing uncertainty in rainfall-runoff modelling with focus on residual analysis and probabilistic output evaluation - Distinguishing simulation and prediction
Publication: Research - peer-review › Journal article – Annual report year: 2013

A new ensemble model for short term wind power prediction
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Designing Trailing Edge Flaps of Wind Turbines using an Integrated Design Approach
Mirzaei, M., Poulsen, N. K. & Niemann, H. H. 2012
Publication: Research - peer-review › Paper – Annual report year: 2013

Integrated Wind Power Planning Tool
Rosgaard, M. H., Hahmann, A. N., Nielsen, T. S., Madsen, H., Giebel, G. & Sørensen, P. E. 2012
Publication: Research - peer-review › Poster – Annual report year: 2013

Integrated Wind Power Planning Tool
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2013
Modelling spread of Bluetongue and other vector borne diseases in Denmark and evaluation of intervention strategies
Publication: Research › Ph.D. thesis – Annual report year: 2013

Model Predictive Control Algorithms for Pen and Pump Insulin Administration
Publication: Research › Ph.D. thesis – Annual report year: 2013

New statistical approaches with consideration for extremes
Pinson, P. 2012
Publication: Research › Sound/Visual production (digital) – Annual report year: 2013

Optical characterisation of nanostructures using a discretised forward model
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Optimal reliability allocation for large software projects through soft computing techniques
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Wind Turbine Control: Robust Model Based Approach
Publication: Research › Ph.D. thesis – Annual report year: 2013

The Matrix exponential, Dynamic Systems and Control
Publication: Research › Report – Annual report year: 2004

NNSYSID and NNCTRL Tools for system identification and control with neural networks
Nørgaard, M., Ravn, O. & Poulsen, N. K. 2001 In : Computing & control engineering journal. 12, 1, p. 29-36
Publication: Research - peer-review › Journal article – Annual report year: 2001