Henrik Madsen - DTU Orbit (11/10/2017)

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Department of Applied Mathematics and Computer Science - Professor, Head of section
Dynamical Systems

Publications:

**Overnight glucose control in people with type 1 diabetes**
Publication: Research - peer-review › Journal article – Annual report year: 2017

**Online short-term forecast of greenhouse heat load using a weather forecast service**
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

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

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

**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

**Economic MPC based on LPV model for thermostatically controlled loads**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

**Fault and meal detection by redundant continuous glucose monitors and the unscented Kalman filter**
Publication: Research - peer-review › Journal article – Annual report year: 2017

**Harnessing Flexibility from Hot and Cold**
Publication: Research - peer-review › Journal article – Annual report year: 2017
Heating of indoor swimming pools by solar thermal collectors in summerhouses in Denmark
Publication: Research › Report – Annual report year: 2017

Leveraging stochastic differential equations for probabilistic forecasting of wind power using a dynamic power curve
Publication: Research - peer-review › Journal article – Annual report year: 2017

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

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: 2017

Simulating clinical studies of the glucoregulatory system: in vivo meets in silico
Publication: Research › Report – Annual report year: 2017

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 model of wind-fuel cell for a semi-dispatchable power generation

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

A Data-Driven Bidding Model for a Cluster of Price-Responsive Consumers of Electricity
Publication: Research - peer-review › Journal article – Annual report year: 2016
Impacts of urban development and climate change in exposing cities to pluvial flooding
Publication: Research › Ph.D. thesis – Annual report year: 2016

Inverse Optimization and Forecasting Techniques Applied to Decision-making in Electricity Markets
Publication: Research › Ph.D. thesis – Annual report year: 2016

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

Long Memory of Financial Time Series and Hidden Markov Models with Time-Varying Parameters
Publication: Research - peer-review › Journal article – Annual report year: 2016

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

Methods and Algorithms for Economic MPC in Power Production Planning
Publication: Research › Ph.D. thesis – 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

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

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

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

Probabilistic Approaches to Energy Systems
Publication: Research › Ph.D. thesis – 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
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Short-term Probabilistic Forecasting of Wind Speed Using Stochastic Differential Equations
Publication: Research - peer-review › Journal article – Annual report year: 2015

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Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Statistical modelling using CTSM-R
Publication: Research › Ph.D. thesis – 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

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

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Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2015

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Publication: Research - peer-review › Conference article – Annual report year: 2015

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Publication: Research - peer-review › Conference article – Annual report year: 2015

Comparison of two stochastic techniques for reliable urban runoff prediction by modeling systematic errors
Regime-Based Versus Static Asset Allocation: Letting the Data Speak
Publication: Research - peer-review › Journal article – Annual report year: 2015

Space-time trajectories of wind power generation: Parameterized precision matrices under a Gaussian copula approach
Publication: Research - peer-review › Book chapter – Annual report year: 2015

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Publication: Research › Book – Annual report year: 2015

Stochastic Greybox Modeling of an Alternating Activated Sludge Process
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Nystrup, P., Madsen, H. & Lindström, E. 2015 In : Quantitative Finance. 15, 9, p. 1531-1541
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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

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

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 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
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

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Publication: Research - peer-review › Journal article – Annual report year: 2014

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Publication: Research - peer-review › Journal article – Annual report year: 2014

Bihormonal model predictive control of blood glucose in people with type 1 diabetes
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

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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

Determining reserve requirements in DK1 area of Nord Pool using a probabilistic approach
Publication: Research - peer-review › Conference article – Annual report year: 2014

Dynamic modeling of presence of occupants using inhomogeneous Markov chains
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
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

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
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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

Integrating Renewables in Electricity Markets: Operational Problems
Publication: Research - peer-review › Book – Annual report year: 2014

Model Identification for Control of Display Units in Supermarket Refrigeration Systems
Publication: Research › Report – Annual report year: 2015

Optimal charging of an electric vehicle using a Markov decision process
Publication: Research - peer-review › 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

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Probabilistic Forecasts of Solar Irradiance by Stochastic Differential Equations
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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., Rieckermann, J. & Madsen, H. 2014

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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

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

Robust Management of Combined Heat and Power Systems via Linear Decision Rules
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

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

A non-parametric method for correction of global radiation observations
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

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

Decentralized Large-Scale Power Balancing
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

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
Forecasting Electricity Spot Prices Accounting for Wind Power Predictions

Forecasting the conditional dynamic elasticity of electricity consumers

Grey-box Modeling for System Identification of Household Refrigerators: a Step Toward Smart Appliances

Impact of Wind Power Generation on European Cross-Border Power Flows

Informal uncertainty analysis (GLUE) of continuous flow simulation in a hybrid sewer system with infiltration inflow - Consistency of containment ratios in calibration and validation?

Inhomogeneous Markov Models for Describing Driving Patterns

Investigating the use of stochastic forecast for RTC of urban drainage systems

Investigating the use of stochastic forecasts for RTC of urban drainage systems

Load forecasting for supermarket refrigeration

Low-energy house in Sisimiut - Data overview

Low-energy house in Sisimiut - Measurement equipment
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

Modeling and forecasting of wind power generation - Regime-switching approaches
Publication: Research › Ph.D. thesis – 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

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

Online load forecasting for supermarket refrigeration
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Online short-term heat load forecasting for single family houses
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Optimization Under Uncertainty for Management of Renewables in Electricity Markets
Publication: Research › Ph.D. thesis – Annual report year: 2013

Pool Strategy of a Price-Maker Wind Power Producer
Publication: Research - peer-review › Journal article – Annual report year: 2013

Reliability 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

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

Stochastic Differential Equations in Artificial Pancreas Modelling
Publication: Research › Ph.D. thesis – Annual report year: 2013

Stochastic runoff forecasting and real time control of urban drainage systems
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Thermal Storage Power Balancing with Model Predictive Control
The smart grid research network: Road map for Smart Grid research, development and demonstration up to 2020

Weather radars for wind energy applications

Wind Power Forecasting with a Focus on Risk and Uncertainties

A convex programming framework for optimal and bounded suboptimal well field management

Adaptive modelling and forecasting of offshore wind power fluctuations with Markov-switching autoregressive models

A formal statistical approach to representing uncertainty in rainfall-runoff modelling with focus on residual analysis and probabilistic output evaluation - Distinguishing simulation and prediction

A General Probabilistic Forecasting Framework for Offshore Wind Power Fluctuations

A new ensemble model for short term wind power prediction

An intuitionistic fuzzy methodology for component-based software reliability optimization

A transmission-cost-based model to estimate the amount of market-integrable wind resources

Control of Blood Glucose for People with Type 1 Diabetes: an In Vivo Study
Control of Blood Glucose for People with Type 1 Diabetes: an in Vivo Study
Publication: Research › Sound/Visual production (digital) – Annual report year: 2012

Descriptive and predictive evaluation of high resolution Markov chain precipitation models
Publication: Research - peer-review › Journal article – Annual report year: 2012

Designing a reliable protocol for web services based robots interconnection
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Development of a restricted state space stochastic differential equation model for bacterial growth in rich media
Publication: Research - peer-review › Journal article – Annual report year: 2012

Economic Model Predictive Control for Building Climate Control in a Smart Grid
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Efficient Iterated Filtering
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

Electric vehicle charge planning using Economic Model Predictive Control
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

ESO2 Optimization of Supermarket Refrigeration Systems: Mixed Integer MPC and System Performance
Publication: Research - peer-review › Report – Annual report year: 2012

Evaluation of Energy Storage System to Support Danish Island of Bornholm Power Grid
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Evaluation of probabilistic flow predictions in sewer systems using grey box models and a skill score criterion
Publication: Research - peer-review › Journal article – Annual report year: 2012

Forecast generation for real-time control of urban drainage systems using greybox modelling and radar rainfall
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

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: 2012
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

Load Forecasting for Households
Publication: Research - peer-review › Report – Annual report year: 2012

Model Based Analysis of Ethnic Differences in Type 2 Diabetes
Publication: Research › Ph.D. thesis – Annual report year: 2012

Modeling Demand Response in Electricity Retail Markets as a Stackelberg Game
Publication: Research - peer-review › Paper – Annual report year: 2012

Modeling Smart Energy Systems for Model Predictive Control
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

Modelling the heat dynamics of a monitored Test Reference Environment for Building Integrated Photovoltaic systems using stochastic differential equations
Publication: Research - peer-review › Journal article – Annual report year: 2012

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

Model predictive control for a smart solar tank based on weather and consumption forecasts
Publication: Research - peer-review › Conference article – Annual report year: 2012

Models for efficient integration of solar energy
Publication: Research › Ph.D. thesis – Annual report year: 2012

Optimal reliability allocation for large software projects through soft computing techniques
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013
Overnight Control of Blood Glucose in People with Type 1 Diabetes
Boiroux, D., Duun-Henriksen, A. K., Schmidt, S., Nørgaard, K., Madsbad, S., Skyggebjerg, O., Jensen, P. R., Poulsen, N. K., Madsen, H. & Jørgensen, J. B. 2012 Biological and Medical Systems. Vol. 8, p. 73-78 (IFAC Proceedings Volumes (IFAC-PapersOnline)).
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State-space adjustment of radar rainfall and stochastic flow forecasting for use in real-time control of urban drainage systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

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Stochastic flow forecasting with calibrated radar rainfall input
Publication: Research › Report – Annual report year: 2012

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Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

Studies of Heat Dynamics in an Arctic Low-energy House
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Tuning of Controller for Type 1 Diabetes Treatment with Stochastic Differential Equations
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Uncertainty in prediction and simulation of flow in sewer systems
Publication: Research › Ph.D. thesis – Annual report year: 2012

Weather radars - A new pair of eyes for offshore wind farms?
Publication: Research - peer-review › Poster – Annual report year: 2012

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Publication: Research - peer-review › Report – Annual report year: 2011
Can Weather Radars Help Monitoring and Forecasting Wind Power Fluctuations at Large Offshore Wind Farms?
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Closed-Loop and Semi Closed-Loop Strategies for Control of Blood Glucose in People with Type 1 Diabetes
Publication: Research › Poster – Annual report year: 2011

Estimating animal behaviour and residency from movement data
Pedersen, M. W., Patterson, T. A., Thygesen, U. H. & Madsen, H. 2011 In : Oikos. 120, p. 1281-1290
Publication: Research - peer-review › Journal article – Annual report year: 2011

Estimation methods for nonlinear state-space models in ecology
Publication: Research - peer-review › Journal article – Annual report year: 2011

Grey Box Modelling of Flow in Sewer Systems with State Dependent Diffusion
Publication: Research - peer-review › Journal article – Annual report year: 2011

Grey Box Modelling of Hydrological Systems: With Focus on Uncertainties
Publication: Research › Ph.D. thesis – Annual report year: 2012

Identifying suitable models for the heat dynamics of buildings
Publication: Research - peer-review › Journal article – Annual report year: 2011

Improved experimental setup for observation of non-linear heat dynamics
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Individual based population inference using tagging data
Publication: Research › Conference abstract for conference – Annual report year: 2011

Influence of local wind speed and direction on wind power dynamics – Application to offshore very short-term forecasting
Publication: Research - peer-review › Journal article – Annual report year: 2011

Insulin Administration for People with Type 1 diabetes
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Introduction to general and generalized linear models
Publication: Research - peer-review › Book – Annual report year: 2011
Markov chain modeling of precipitation time series: Modeling waiting times between tipping bucket rain gauge tips
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Mechanism-based population modelling for assessment of L-cell function based on total GLP-1 response following an oral glucose tolerance test
Publication: Research - peer-review › Journal article – Annual report year: 2011

Meso-scale Wind Variability. Final Report
Publication: Research › Report – Annual report year: 2011

Models of the heat dynamics of solar collectors for performance testing
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Nonlinear tracking in a diffusion process with a Bayesian filter and the finite element method
Publication: Research - peer-review › Journal article – Annual report year: 2011

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Bacher, P., Madsen, H. & Nielsen, H. A. 2011
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Møller, J. K., Madsen, H. & Carstensen, J. 2011 In : Ecological Modelling. 222, 11, p. 1793-1799
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Publication: Research › Poster – Annual report year: 2011

Scenario generation: A review
Publication: Research › Report – Annual report year: 2011

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

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Publication: Research - peer-review › Journal article – Annual report year: 2011
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Publication: Research › Report – Annual report year: 2011

Spatio-temporal correction targeting Nysted Offshore, Probabilistic forecasts
Publication: Research › Report – Annual report year: 2011

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Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2011

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Publication: Research › Ph.D. thesis – Annual report year: 2012

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

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Publication: Research - peer-review › Journal article – Annual report year: 1999

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Publication: Research › Article in proceedings – Annual report year: 1999

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Publication: Research - peer-review › Journal article – Annual report year: 1999

Identification of continuous time smooth threshold models of physical systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 1999
Implementation of Short-term Prediction
Publication: Research - peer-review › Article in proceedings – Annual report year: 1999

Implementing short-term prediction at utilities
Publication: Research - peer-review › Report – Annual report year: 1999

Integer Valued Autoregressive Models for Tipping Bucket Rainfall Measurements
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Publication: Research - peer-review › Article in proceedings – Annual report year: 1999

Parameter Estimation in Nonlinear Stochastic Differential Equations: An Overview
Publication: Research - peer-review › Article in proceedings – Annual report year: 1999

Subset Selection by Local Convex Approximation
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Using meteorological forecasts in on-line predictions of wind power
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A Grey Box Model for the Hydraulics in a Creek
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Publication: Research - peer-review › Journal article – Annual report year: 1998

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Publication: Research - peer-review › Article in proceedings – Annual report year: 1998

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Publication: Research - peer-review › Journal article – Annual report year: 1997

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Publication: Research - peer-review › Article in proceedings – Annual report year: 1997
Modelling of Hydraulic Robot
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Estimation of Continuous-Time Models for the Heat Dynamics of a Building
Publication: Research - peer-review › Journal article – Annual report year: 1995

Experiment Design for Grey Box Identification
Publication: Research - peer-review › Journal article – Annual report year: 1995

Identification of Transfer Functions for Control of Greenhouse Air Temperature
Publication: Research - peer-review › Journal article – Annual report year: 1995

Methodologies for the Analysis of Data from Sewers and Wastewater Treatment Plants
Publication: Research - peer-review › Article in proceedings – Annual report year: 1995

Methodologies for the Analysis of Data From Sewersm and Wastewater Treatment Plants
Publication: Research › Article in proceedings – Annual report year: 1995
Application of Predictive Control in District Heating Systems
Publication: Research - peer-review > Journal article – Annual report year: 1993

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Publication: Research - peer-review > Journal article – Annual report year: 1993

Identification of wastewater processes using nonlinear grey box models
Publication: Research - peer-review > Report – Annual report year: 1992

Methods for quantification of the estimator uncertainty in recursive estimation of restricted
Publication: Research - peer-review > Report – Annual report year: 1992

Models and Methods for Optimization of District Heating Systems.: Part II: Models and Control Methods
Publication: Research - peer-review > Book – Annual report year: 1992

On an Adaptive Acceptance Control Chart for Autocorrelated Processes
Publication: Research - peer-review > Journal article – Annual report year: 1992

Validation of Grey Box Models
Publication: Research - peer-review > Article in proceedings – Annual report year: 1992

The Use of Phase Type Distributions for Modelling Packet-Switched Traffic
Publication: Research - peer-review > Article in proceedings – Annual report year: 1991

Continuous Identification of a Four-Stroke SI Engine
Publication: Research - peer-review > Article in proceedings – Annual report year: 1990

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Publication: Research - peer-review > Book – Annual report year: 1990

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Publication: Research - peer-review > Journal article – Annual report year: 1990

Estimation of traffic models for a packet-switched network
Publication: Research - peer-review > Article in proceedings – Annual report year: 1989
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Madsen, H. 1989 Informatics and Mathematical Modelling, Technical University of Denmark, DTU.
Publication: Education › Book – Annual report year: 1989

Modelling the Time Correlation in Hourly Observations of Direct Radiation in Clear Skies
Madsen, H. & Thyregod, P. 1988 In: Energy and Buildings. 11, p. 201-211
Publication: Research - peer-review › Journal article – Annual report year: 1988

Markov models in discrete and continuous time for hourly observations of cloud cover
Publication: Research - peer-review › Journal article – Annual report year: 1985

Projects:

Smart Cities Accelerator
Heller, A., Madsen, H. & Nielsen, P. S.
20/04/2018 → 20/07/2018
Project

Stochastic Predictive Control of Wastewater Treatment Processes
Stentoft, P. A., Møller, J. K., Madsen, H., Mikkelsen, P. S., Munk-Nielsen, T. & Vezzaro, L.
15/09/2017 → 14/09/2020
Project: PhD

Stochastic Dynamic Optimization and Control Theory
Brok, N. L., Madsen, H., Jørgensen, J. B. & Poulsen, N. K.
01/09/2017 → 31/08/2020
Project: PhD

Tools for Reliable Energy Performance Characterisation of Buildings
Rasmussen, C., Madsen, H. & Rode, C.
01/01/2017 → 31/12/2019
Project: PhD

Models for real time warning and control strategies in urban drainage and wastewater systems
Pedersen, J. W., Mikkelsen, P. S., Madsen, H. & Vezzaro, L.
01/10/2016 → 30/09/2019
Project: PhD

Statistics and Data Analytics on Smart Zero
Wolf, S. & Madsen, H.
15/09/2016 → 14/09/2019
Project: PhD

Statistics and Data Analytics on Smart Zero
Wolf, S., Madsen, H. & Krogstie, J.
15/09/2016 → 14/09/2019
Project: PhD

SDE-modelling in CITIES
15/07/2016 → 13/11/2019
Project: PhD
SDE-modelling in CITIES
15/07/2016 → 13/11/2019
Project: PhD

Data-driven models for energy advising leading to behavioural changes in SMEs and residences
Liisberg, J. A. R., Møller, J. K., Bacher, P. & Madsen, H.
15/05/2016 → 14/05/2019
Project: PhD

Classification and aggregation of energy components
Richert, T. P., Bindner, H. W., Gehrke, O. & Madsen, H.
01/04/2016 → 31/03/2019
Project: PhD

Market Mechanisms for the integration of Distributed Energy Resources
De Zotti, G., Morales González, J. M. & Madsen, H.
01/04/2016 → 31/03/2019
Project: PhD

Sensor Based Process Monitoring of Large Scale Vacuum Casting Process
Nauheimer, M., Madsen, H., Kirkeby, K. & Olesen, B.
01/01/2016 → 31/12/2018
Project: PhD

Decision-making for the Management and Planning of Integrated Energy Systems
Blanco, I., Madsen, H., Morales González, J. M. & Kitzing, L.
01/11/2015 → 31/10/2018
Project: PhD

Analysis of high frequency (*smart meter*) energy consumption data
Tureczek, A. M., Nielsen, P. S. & Madsen, H.
01/08/2015 → 31/07/2018
Project: PhD

Nystrup, P., Madsen, H., Hansen, B. W., Larsen, H. O. & Lindstrøm, K. J. E. L.
15/11/2014 → 14/11/2017
Project: PhD

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 → 01/12/2017
Project: PhD

Innovationsnetwork Smart Energy (CLEAN)
Heller, A. & Madsen, H.
15/08/2014 → 31/12/2017
Project

IEA EBC Annex 67 - Energy Flexible Buildings
Heller, A., Madsen, H., Gianniou, P. & Foteinaki, K.
01/06/2014 → 01/06/2019
Project
Waste-2-Energy Smart Grid Upgrade
Halvgaard, R. F. & Madsen, H.
02/04/2014 → 02/04/2016
Project

Modeling of Pharmacokinetics and Pharmacodynamics of Novel Glucagon Analogues for Closed-Loop Dual Hormone Blood Glucose Control
15/03/2014 → 16/08/2017
Project: PhD

Center for IT-Intelligent Energy Systems for Cities
01/01/2014 → 31/12/2019
Project

Stochastic Dynamics of Demand Response and the Impact on Power Systems Service Provision
O’Connell, N., Madsen, H., O’Malley, M. J., Pinson, P., Bindner, H. W., Botterud, A. & Melbom, P.
01/01/2013 → 20/04/2016
Project: PhD

Stochastic energy systems
15/12/2012 → 12/12/2016
Project: PhD

Adaptive Load Forecasting
Parvizi, J., Madsen, H., Sørensen, M. P., Petersen, S. & Sartori, I.
15/09/2012 → 31/07/2016
Project: PhD

Stochastic Model Predictive Control with Applications in Smart Energy Systems
01/07/2012 → 31/03/2016
Project: PhD

Methodologies for the economic and societal valuation of wind, energy storage and demand-side management in the electricity supply
Simonsen Nielsen, M. P., Pinson, P. & Madsen, H.
01/05/2012 → 30/04/2015
Project: PhD

Stochastic Differential Equations in PK/PD Modelling
Juhl, R., Madsen, H. & Jørgensen, J. B.
15/01/2012 → 16/07/2015
Project: PhD

Integrated Wind Power Planning Tool
Rosgaard, M. H., Hahmann, A. N., Madsen, H., Pinson, P., Nissen, J. N. & Wilson, C.
01/10/2011 → 24/08/2015
Project: PhD

Multivariate Probabilistic Forecasting for Energy Systems
01/10/2011 → 21/09/2015
Adaptive Load Forecasting
de Saint-Aubain, P. A. & Madsen, H.
15/09/2011 → 30/06/2012
Project: PhD

Scenario modeling for optimized integrated real-time control of sewer - wastewater treatment plant systems
Löwe, R., Madsen, H., Mikkelsen, P. S., Bauer-Gottwein, P., Heemink, A. W. & Muschalla, D.
01/01/2011 → 25/09/2014
Project: PhD

Model Predictive Control for Smart Energy Systems
Halvgaard, R. F., Jørgensen, J. B., Madsen, H., Poulsen, N. K., Bindner, H. W., Chmielewski, D. J. & Jones, C. N.
01/11/2010 → 25/04/2014
Project: PhD

Models for the energy performance of low-energy houses
Andersen, P. H. D., Madsen, H., Rode, C., Hattel, J. H., Heiselberg, P. & Roels, S.
01/05/2010 → 24/01/2014
Project: PhD

Impact of Stochastic Generation on Electricity Market Dynamics
01/01/2010 → 30/08/2013
Project: PhD

Statistisk modellering af marine økosystemer
Berg, C. W., Madsen, H., Nielsen, A., Thygesen, U. H., Andersen, K. H., Cadigan, N. G. & Nielsen, S. F.
01/11/2009 → 30/08/2013
Project: PhD

Model Predictive Control algorithms for pen and pump insulin administration
Boiroux, D., Jørgensen, J. B., Madsen, H., Poulsen, N. K., Sørensen, M. P., Knudsen, J. K. H. & del Re, L.
01/09/2009 → 22/11/2012
Project: PhD

Stokastisk dynamisk modellering til kort-tidsregulering af glukose/insulin-metabolismen
Duun-Henriksen, A. K., Madsen, H., Jensen, P. R., Christiansen, L. E., Andreassen, S. & Gabrielsson, J.
01/06/2009 → 12/12/2013
Project: PhD

NonLinear modelling for energy systems
Trombe, P., Madsen, H., Pinson, P., Larsen, R. W., Greiner, M. O. W. & Thorarinsdottir, T. L.
01/01/2009 → 22/03/2013
Project: PhD

Model based analysis of ethnic differences in Type 2 diabetes
01/10/2008 → 24/08/2012
Project: PhD

Models for efficient integration of solar energy
Bacher, P., Madsen, H., Nielsen, H. A., Christiansen, L. E., Palsson, O. P. & Taboada, M. J. J.
01/10/2008 → 24/08/2012
Grey box Modelling of Hydraulic Systems
Thordarson, F. Ø., Madsen, H., Madsen, H., Poulsen, N. K., Rasmussen, M. R. & Willems, P.
01/10/2007 → 23/02/2012
Project: PhD

Framework for Real Time Control of Integrated Urban Wastewater Systems
Breinholt, A., Mikkelsen, P. S., Grum, M., Madsen, H., Bauer-Gottwein, P., Madsen, H. & Vanrolleghem, P.
01/09/2007 → 27/06/2012
Project: PhD

Estimation of Conditional densities for predictions in nonlinear stochastic processes - with applications to wind power systems
Tastu, J., Madsen, H., Pinson, P., Poulsen, N. K., Kariniotakis, G. & Lindström, E.
01/08/2007 → 12/12/2013
Project: PhD

Statistical modelling of tagging data from marine animals
Pedersen, M. W., Madsen, H., Thygesen, U. H., Poulsen, N. K., Huse, G. & Zucchini, W.
01/07/2007 → 02/02/2011
Project: PhD

Nonlinear Stochastic Modelling of Antimicrobial resistance in Bacterial Populations
Philipsen, K. R., Madsen, H., Christiansen, L. E., Molin, S., Diekmann, O. & Erskbøll, A. K.
01/10/2006 → 30/06/2010
Project: PhD

Identification of Ecological Thresholds of Sustaniiability in Marine Ecosystems
Møller, J. K., Madsen, H., Carstensen, N. J., Nielsen, B. F., Ditlevsen, S. & Guttorph, P.
01/08/2006 → 25/05/2011
Project: PhD

Improved Statistical Analysis of Sleep EEG Data in Relation to Pharmacokinetics
01/07/2006 → 10/02/2010
Project: PhD

Predictive Tools for Designing new Insulins and Treatment Regimes
Klim, S., Madsen, H., Ingwersen, S. H., Kristensen, N. R., Jørgensen, J. B., Gabrielsson, J. & Lavielle, M.
01/07/2006 → 16/12/2009
Project: PhD

Methods for Investigation of QT Prolongations
Jónsdóttir, A. H. & Madsen, H.
01/04/2006 → 31/05/2010
Project: PhD

Data Assimilation in Marine Modelling
Frydendall, J., Madsen, H., Sørensen, J. V. T., Poulsen, N. K., Carstensen, N. J. & Heemink, A. W.
01/03/2006 → 25/11/2009
Project: PhD

Automatisk kalibrering og attenuation korrektion i netværk af små vejrradar
Pedersen, L., Madsen, H., Jensen, N. E., Mikkelsen, P. S., Overgaard, S. & Sempere-Torres, D.
01/02/2006 → 26/08/2009
Project: PhD
Self-Organising Distributed Control of a Distributed Energy System with a High Penetration of Renewable Energy
01/04/2005 → 17/02/2010
Project: PhD

Power Fluctuations from Large Offshore Wind Farms
Sørensen, P. E., Cutululis, N. A., Madsen, H. & Pinson, P.
01/10/2004 → 30/09/2008
Project

Conflict-based Method for Economical, Subsustainable, Safe and Environmentally Clean Process (Retrofit) Design and Operation
Davidescu, F. P., Jørgensen, S. B., Madsen, H., Gernaey, K. V., Kristensen, N. R. & Marquardt, W.
01/02/2004 → 25/09/2008
Project: PhD

Modelling for Monitoring, Control and Optimization of Fed-Batch
Rasmussen, J. K., Jørgensen, S. B., Jørgensen, H. S., Madsen, H., Gernaey, K. V., Lei, F. & Lübbert, A.
01/09/2003 → 02/08/2008
Project: PhD

Computer Supported Drug Development
01/10/2002 → 20/10/2005
Project: PhD

Estimationsteori for stokastiske differentialelligninger
Nolsøe, K., Madsen, H., Kessler, M., Nielsen, B. F., Jørgensen, B. & Rydén, T.
01/10/2002 → 15/01/2007
Project: PhD

Stokastisk dynamik i kompæse systemer
01/07/2002 → 25/10/2006
Project: PhD

Antigiotika anvendelse og tidssig og rumlig sprædning af antibiotikaresistens
Christiansen, L. E., Madsen, H., Andersen, J. S., Wegener, H. C., Thyregod, P., Agger, J. & Guttorp, P.
15/08/2001 → 27/04/2005
Project: PhD

Minimizing antibiotic resistance development MINIRESIST
11/01/2001 → 14/12/2013
Project

Data assimilation in atmosphere dispersion of radioactive material
Drews, M., Madsen, H., Lauritzen, B., Poulsen, N. K., Finck, R. R. & Holst, J.
01/10/2000 → 18/03/2005
Project: PhD

Data assimilering og autokalibrering i 2D/3D hydrodynamic numerisk modellering af det marine miljø
Sørensen, J. V. T., Madsen, H., Madsen, H., Poulsen, N. K., Cañizares, R. & Heemink, A. W.
Nonlinear identification and optimal control of fed-batch processes
01/08/1999 → 24/03/2003
Project: PhD

Vindmøllepark-produktionsprediktor
Joensen, A. K., Madsen, H. & Nielsen, T. S.
01/04/1999 → 31/03/2002
Project

Non- and semiparametric methods with applications in engineering
01/01/1999 → ...
Project

PRESS installation hos Sonderborg Fjernvarme
Madsen, H. & Nielsen, T. S.
01/01/1999 → 31/12/2000
Project

IT based optimization of District Heating Networks
Nielsen, H. A., Madsen, H. & Laursen, P.
01/02/1998 → 31/12/2002
Project

IT-baseret driftoptimering af fjernvaramedistribution
Madsen, H., Nielsen, H. A. & Nielsen, T. S.
01/02/1998 → 30/10/2000
Project

Dynamic modelling of Energy Systems
Andersen, K. K., Madsen, H., Spliid, H., Bidstrup, N. & Lebrun, J.
01/01/1998 → 03/12/2001
Project: PhD

Multivariat kalibrering af kemiske sensorer
Øjelund, H., Madsen, H., Steen-Pedersen, J., Thyregod, P., Hansen, L. K., Olsen, E. V. & Sundberg, R.
01/01/1998 → ...
Project: PhD

Elforbrugsmodeller for ELKRAFT-omraadet
Madsen, H. & Nielsen, H. A.
01/12/1997 → 01/03/1998
Project

Grey-box identification
Madsen, H. & Sadegh, P.
01/10/1997 → 01/11/1998
Project

Center for IT-tools in the Energy Sector
Madsen, H. & Andersen, K. K.
01/09/1997 → 31/08/2001
Project

Modelling and control of sprays processes
Madsen, H., Spliid, H. & Thyregod, P.
01/08/1997 → 31/07/2000
Project

Modelling and control of sprays processes
Thyregod, P., Madsen, H., Melgaard, H., Spliid, H., Rootzén, H., Bisgaard, S. & Olsen, K. J.
01/08/1997 → ...
Project: PhD

Combined physical and statistical on-line prediction of wind power from wind farms.
Madsen, H., Joensen, A. K. & Nielsen, T. S.
01/04/1997 → 31/03/2000
Project

Kombineret fysik og statistisk on-line forudsigelse af produktion fra vindmølleparker
Joensen, A. K., Madsen, H., Landberg, L., Spliid, H., Knudsen, T. & Larsen, S. E.
01/04/1997 → 20/05/2003
Project: PhD

Multivariate Calibration in Optical Sensors
Madsen, H., Thyregod, P. & Øjelund, H.
01/04/1997 → 31/05/2001
Project

Stochastic Dynamic modelling of Oxigen
Jonsdottir, H., Madsen, H., Eliasson, J., Palsson, O. P., Poulsen, N. K., Madsen, H. & Olsson, G.
01/04/1997 → 08/02/2007
Project: PhD

Estimation in Stochastic Differential Equations
Madsen, H. & Baadsgaard, M.
01/09/1996 → 31/08/1999
Project

Estimation Techniques in Stochastic
Baadsgaard, M. & Madsen, H.
01/09/1996 → 01/09/1999
Project: PhD

Identification and control of wastewater systems
Madsen, H., Poulsen, N. K., Bechmann, H. & Nielsen, M.
01/05/1996 → 30/04/1999
Project

Modelling and Predictive Styring of Spildevandssystemer
Bechmann, H., Madsen, H. & Poulsen, N. K.
01/05/1996 → 28/04/2000
Project: PhD

Stochastic modelling of nonlinear systems
Nielsen, J. N., Madsen, H., Poulsen, N. K. & Ljung, L.
01/03/1996 → 29/03/2001
Project: PhD
Prædiktorer i komplekse stokastiske systemer
Nielsen, H. A., Madsen, H. & Holst, J. J.
01/02/1996 → 25/09/2000
Project: PhD

Stokastisk Prædiktiv Kontrol i Komplekse Systemer
Nielsen, T. S., Madsen, H., Holst, J., Poulsen, N. K., Bidstrup, N. & Egardt, B.
01/02/1996 → 14/11/2002
Project: PhD

Dynamisk kvalitetskontrol
Madsen, H., Thyregod, P. & Iwersen, J.
01/01/1996 → ...
Project

Prediction models for wind energy production
Madsen, H., Nielsen, T. S., Søgaard, H. & Sejling, K.
01/01/1996 → 31/12/1998
Project

Center for informationsteknologi i miljøsektoren
Madsen, H., Øjelund, H. & Sadegh, P.
01/06/1995 → 01/04/1999
Project

Development of methods for evaluation of electricity saving and load levelling measures
Madsen, H., Nielsen, H. A. & Bergstrøm, W.
01/03/1995 → 31/12/1997
Project

Implementing Short Term Predictions at Utilities
Madsen, H., Nielsen, T. S. & Nielsen, H. A.
01/01/1995 → 31/12/1998
Project

Prognosemodeller for gasforbrug
Madsen, H. & Nielsen, T. S.
17/06/1994 → 30/06/1996
Project

Identification af modeller for kedel og varmeanlæg
Madsen, H., Hansen, L. H., Holst, J., Bidstrup, N. & Vadstrup, P.
01/06/1994 → 31/05/1997
Project

Identification af modeller for kedel- og varmeanlæg
Hansen, L. H., Madsen, H., Hansen, P. E. & Poulsen, N. K.
01/06/1994 → ...
Project: PhD

Tidsrækkeanalyse og Danamisk Modellering af Regnvands påvirkede Recipienter
Jacobsen, J. L. & Madsen, H.
01/04/1994 → ...
Project: PhD
Time series analysis and dynamic modelling of processes in rivers affected by precipitation runoff
Madsen, H., Jacobsen, J. L., Harremoes, P. & Linde Jensen, J. J.
01/04/1994 → 31/05/1997
Project

Forsøgsplanlægning for identifikation af delvis kendte systemer (grey-box modeller)
Madsen, H., Sadegh, P. & Holst, J.
01/01/1994 → 31/12/1996
Project

Statistisk finansieringsteori
Madsen, H., Nielsen, J. N. & Baadsgaard, M.
01/01/1994 → ...
Project

Identifikation af Grey-Modeller
Sadegh, P., Madsen, H. & Ljung, L.
01/08/1993 → 21/03/1997
Project: PhD

Optimering af fjernvarmestytemer
Madsen, H., Nielsen, T. S. & Nielsen, H. A.
01/07/1993 → 30/06/1996
Project

Udvikling, afprøvning og implementering af GPC-regulatorer i fjernvarmesystemer
Madsen, H. & Nielsen, T. S.
01/07/1993 → 30/06/1996
Project

Identifikation og styring af spildevandsprocesser
Carstensen, N. J., Madsen, H. & Harremoës, P.
01/01/1991 → ...
Project: PhD

Undersøgelser af kontrolstrategier for regulering af fjernvarmesystemer
Palsson, O. P., Madsen, H. & Ravn, H. V.
01/07/1990 → 16/06/1994
Project: PhD

Identifikation af dynamiske systemer i kontinuerlig tid
Melgaard, H., Madsen, H., Hendricks, E. & Holst, J.
01/03/1990 → 17/03/1995
Project: PhD

Identifikation af varmedynamikken for bygningsskomponenter
Madsen, H. & Melgaard, H.
01/01/1990 → ...
Project

Identifikation og estimation af underliggende parametervariationer i stokastiske modeller
Søgaard, H. T., Madsen, H. & Holst, J.
15/02/1989 → 30/05/1994
Project: PhD
Modelling and prediction of load in district heating systems
Sejling, K. & Madsen, H.
01/02/1989 → 01/02/1994
Project: PhD

System til optimal regulering af fjernværmeproduktion
Madsen, H., Nielsen, T. S. & Nielsen, H. A.
01/01/1988 → …
Project

Activities:

Cities research for District Heating Innovation
Heller, A. (Speaker), Madsen, H. (Speaker)
6 Mar 2017
Activity: Talks and presentations › Conference presentations

5-års seminar om Lavenerghuset i Sisimiut
Madsen, H. (Speaker)
2 Jun 2010
Activity: Other