Henrik Madsen - DTU Orbit (25/12/2017)

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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: 2018

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
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Publication: Research - peer-review › Conference article in proceedings – Annual report year: 2017

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Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

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A Stochastic Method to Manage Delay and Missing Values for In-Situ Sensors in an Alternating Activated Sludge Process
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Biomass Supply Planning for Combined Heat and Power Plants using Stochastic Programming
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Consumption management in the Nord Pool region: A stability analysis
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<thead>
<tr>
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<th>Authors</th>
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<tbody>
<tr>
<td>Long memory of financial time series and hidden Markov models with time-varying parameters</td>
<td>Nystrup, P., Madsen, H. &amp; Lindstrøm, E.</td>
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Weather radars for wind energy applications

Wind Power Forecasting with a Focus on Risk and Uncertainties

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A new ensemble model for short term wind power prediction

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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
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Publication: Research - peer-review › Report – Annual report year: 2012

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Forecast generation for real-time control of urban drainage systems using greybox modelling and radar rainfall
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Rosgaard, M. H., Hahmann, A. N., Nielsen, T. S., Madsen, H., Giebel, G. & Sørensen, P. E. 2012
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Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Overnight Control of Blood Glucose in People with Type 1 Diabetes
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Studies of Heat Dynamics in an Arctic Low-energy House
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Identifying suitable models for the heat dynamics of buildings
Publication: Research - peer-review › Journal article – Annual report year: 2011

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

**Integer Valued Autoregressive Models for Tipping Bucket Rainfall Measurements**
Publication: Research - peer-review › Journal article – Annual report year: 1999

**Model output statistics applied to wind power prediction**
Publication: Research - peer-review › Article in proceedings – Annual report year: 1999

**Parameter Estimation in Nonlinear Stochastic Differential Equations: An Overview**
Nielsen, J. N., Madsen, H. & Young, P. 1999 *Proceedings of 14th IFAC World Congress - Vol J.*. Elsevier Science, p. 289-294
Publication: Research - peer-review › Article in proceedings – Annual report year: 1999

**Subset Selection by Local Convex Approximation**
Publication: Research - peer-review › Article in proceedings – Annual report year: 1999

**Tracking Time-Varying Coefficient-Functions**
Publication: Research - peer-review › Report – Annual report year: 1999

**Using meteorological forecasts in on-line predictions of wind power**
Publication: Research - peer-review › Report – Annual report year: 1999

**A Grey Box Model for the Hydraulics in a Creek**
Publication: Research - peer-review › Article in proceedings – Annual report year: 1998

Publication: Research - peer-review › Report – Annual report year: 1998

**A New Reference for Wind Power Forecasting**
Publication: Research - peer-review › Journal article – Annual report year: 1998

**An Introduction to CUSUM Charts for COntrrolling Measurement Systems**
Publication: Research - peer-review › Report – Annual report year: 1998
Control of Sewer systems and Wastewater treatment plants using pollutant concentration profiles
Bechmann, H., Nielsen, M. K., Madsen, H. & Poulsen, N. K. 1998 In : Water Science and Technology. 37, 12, p. 87-93
Publication: Research - peer-review › Journal article – Annual report year: 1998

Design Values for the CUSUM-MS Chart
Publication: Research - peer-review › Report – Annual report year: 1998

Empirisk bestemt model for elforbruget i Østdanmark
Publication: Research - peer-review › Report – Annual report year: 1998

Estimation In Continuous-time Stochastic Volatility Models using Nonlinear Filters
Publication: Research - peer-review › Journal article – Annual report year: 1998

Estimation of embedded parameters in stochastic differential equations using discret-time measurements: Part 2: Nonlinear systems
Publication: Research - peer-review › Report – Annual report year: 1998

Publication: Research - peer-review › Report – Annual report year: 1998

Formulating and testing a rain series generator based on tipping bucket gauges
Publication: Research - peer-review › Journal article – Annual report year: 1998

Grey-Box Modelling of pollutant Loads from the Sewer System for Control of Equalisation Basins
Publication: Research - peer-review › Article in proceedings – Annual report year: 1998

Identification of a Linear Continuous Time Stochastic Model of the Heat Dynamics of a Greenhouse
Publication: Research - peer-review › Journal article – Annual report year: 1998

Input design for linear dynamic systems using maxmin criteria
Publication: Research - peer-review › Journal article – Annual report year: 1998

Modelling the dynamical effect of solar radiation on the oxygen content of a small creek
Jacobsen, J. L., Madsen, H. & Harremoës, P. 1998 In : Environmetrics. 9, p. 3-14
Publication: Research - peer-review › Journal article – Annual report year: 1998

Modelling the embedded rainfall process using tipping bucket data
Publication: Research - peer-review › Journal article – Annual report year: 1998
Nonlinear Filtering of Univariate Stochastic Volatility Models
Publication: Research - peer-review › Article in proceedings – Annual report year: 1998

Online data validation: Outlier detection and accommodation
Publication: Research - peer-review › Report – Annual report year: 1998

On the Mathematics behind the CUSUM Control Charts
Publication: Research - peer-review › Report – Annual report year: 1998

SAS-makroer til estimation og prædiktion i elforbrugsmodel
Publication: Research - peer-review › Report – Annual report year: 1998

Some Tools for Identification of Nonlinear Time Series
Nielsen, H. A. & Madsen, H. 1998 Department of Mathematical Modelling, Technical University of Denmark. 27 p.
Publication: Research - peer-review › Report – Annual report year: 1998

Statistics in Finance
Publication: Education › Book – Annual report year: 1998

WPPT, A Tool for On-Line Wind Power Prediction
Publication: Research - peer-review › Report – Annual report year: 1998

A Method for Automatic Calibration of Parameters of an Integrated Model
Jacobsen, J. L., Madsen, H., Rauch, W. & Harremoes, P. 1997
Publication: Research - peer-review › Report – Annual report year: 1997

ARX-models with parameter variations estimated by local fitting
Publication: Research - peer-review › Article in proceedings – Annual report year: 1997

A Stochastic model for two-station hydraulics exhibiting transient impact
Publication: Research - peer-review › Journal article – Annual report year: 1997

Conditionally Parametric ARX-models for Modelling time delays in district heating systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 1997

Control of Supply Temperature in District Heating Systems - An Application.
Publication: Research - peer-review › Article in proceedings – Annual report year: 1997

Design of CUSUM Control Charts for Emission Data: CEN/TC 264/WG9, No. 41
Madsen, H. & Iwersen, J. 1997
Publication: Research - peer-review › Report – Annual report year: 1997
Modelling the Embedded Rainfall Process using Tipping Bucket Data
Publication: Research - peer-review › Article in proceedings – Annual report year: 1997

On Optical Flow Estimation in Radar Images for Precipitation Forecasting
Publication: Research - peer-review › Book chapter – Annual report year: 1997

Using meteorological forecasts in on-line predictions of wind power.
Publication: Research - peer-review › Report – Annual report year: 1997

Publication: Research - peer-review › Article in proceedings – Annual report year: 1996

Application of a Thermal Network Model on Case 3. System Identification Competition
Publication: Research - peer-review › Article in proceedings – Annual report year: 1996

Publication: Research › Article in proceedings – Annual report year: 1996

Control of Supply Temperature: EFP 1323/93-07
Publication: Research - peer-review › Report – Annual report year: 1996

En Statistisk Bearbejdning af Slaggeanalyser og Forslag til Godkendelse af Slagger
Madsen, H. 1996
Publication: Research - peer-review › Report – Annual report year: 1996

Grey Box Modelling of Oxygen Levels in a Small Stream
Publication: Research - peer-review › Journal article – Annual report year: 1996

Interpretation of a pumping station as an on-line flow measurement
Publication: Research - peer-review › Article in proceedings – Annual report year: 1996

Modelling heat dynamics using thermal networks: Chapter 13 in System Identification Competition
Publication: Research › Article in proceedings – Annual report year: 1996

Modelling of Heat Dynamics using Thermal Networks: System Identification Competition
Publication: Research - peer-review › Article in proceedings – Annual report year: 1996
Modelling the transient impact of rain events on the oxygen content of a small creek
Jacobsen, J. L., Madsen, H. & Harremoes, P. 1996 In : Water Science and Technology. 33, 2, p. 177-185
Publication: Research - peer-review › Journal article – Annual report year: 1996

Models and Methods for Predicting Wind Power
Nielsen, H. A. & Madsen, H. 1996
Publication: Research - peer-review › Report – Annual report year: 1996

Madsen, H. 1996
Publication: Research - peer-review › Report – Annual report year: 1996

Predictive Control of Air Temperature in Greenhouses: 13th World Congress of IFAC, San Francisco, California, July 1996
Madsen, H. & Nielsen, B. 1996 Predictive Control of Air Temperature in Greenhouses. San Francisco: International Federation of Automatic Control
Publication: Research - peer-review › Article in proceedings – Annual report year: 1996

Sampling Techniques in stochastic differential equations: Conference on Mathematical Finance
Publication: Research › Article in proceedings – Annual report year: 1996

Wind Power Prediction using ARX Models and Neural Networks: Proceedings of the Fifteenth IASTED International Conference on Modelling, Identification and Control
Publication: Research - peer-review › Article in proceedings – Annual report year: 1996

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

Model for brændselsforbrug og elproduktion på Korsør kraftvarmeværk
Publication: Research - peer-review › Report – Annual report year: 1995
Publication: Research - peer-review › Book – Annual report year: 1995

Optimal input design for fault detection and diagnosis
Publication: Research - peer-review › Article in proceedings – Annual report year: 1995

Statistical Identification of Monod-Kinetic Parameters from On-line Measurements
Publication: Research - peer-review › Journal article – Annual report year: 1995

Identification of wastewater processes
Publication: Research › Ph.D. thesis – Annual report year: 1994

Emission of Dioxins from Danish Wood-Stoves
Publication: Research - peer-review › Journal article – Annual report year: 1994

Generalized Predictive Control for Non-Stationary Systems
Publication: Research - peer-review › Journal article – Annual report year: 1994

Identification and Control of Nutrient Removing Processes in Wastewater Treatment Plants
Publication: Research - peer-review › Conference article – Annual report year: 1994

Identification of wastewater treatment processes for nutrient removal on a full-scale WWTP by statistical methods
Publication: Research - peer-review › Journal article – Annual report year: 1994

Methods for Robust Estimation of AR-parameters
Publication: Research - peer-review › Journal article – Annual report year: 1994

On Flow and Supply Temperature Control in District Heating Systems
Madsen, H. 1994 In : Heat Recovery Systems and CHP. 14, 6, p. 613-620
Publication: Research - peer-review › Journal article – Annual report year: 1994

Optimal experiment design for identification of grey-box models
Publication: Research - peer-review › Article in proceedings – Annual report year: 1994

Application of Predictive Control in District Heating Systems
Publication: Research - peer-review › Journal article – Annual report year: 1993
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
Datadriven 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

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 → 28/02/2018
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. & Meibom, 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. G.
01/10/2011 → 24/08/2015
Project: PhD

Multivariate Probabilistic Forecasting for Energy Systems
01/10/2011 → 21/09/2015
Project: PhD

Adaptive Load Forecasting
de Saint-Aubain, P. A. & Madsen, H.
15/09/2011 → 30/06/2012
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. & Ersbøll, A. K.
01/10/2006 → 30/06/2010
Project: PhD

Identification of Ecological Thresholds of Sustaniability in Marine Ecosystems
Møller, J. K., Madsen, H., Carstensen, N. J., Nielsen, B. F., Ditlevsen, S. & Guttrop, 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
Power Fluctuations from Large Offshore Wind Farms
Sørensen, P. E., Cutululis, N. A., Madsen, H. & Pinson, P.
01/10/2004 → 30/09/2008
Project: PhD

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. & Lübert, A.
01/09/2003 → 02/06/2008
Project: PhD

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

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

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

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

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

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 hydrodynamisk numerisk modellering af det marine miljø
Sørensen, J. V. T., Madsen, H., Madsen, H., Poulsen, N. K., Cañizares, R. & Heemink, A. W.
01/04/2000 → ...
Project: PhD

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 fjernvarmedistribution**
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

**Modellering og styring af sprøjtestøbeprocess**
Madsen, H., Spliid, H. & Thyregod, P.
01/08/1997 → 31/07/2000

Modellering og styring af sprøjtestøbeproces  
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

Identifikation og regulering af rensningsanlæg  
Madsen, H., Poulsen, N. K., Bechmann, H. & Nielsen, M.  
01/05/1996 → 30/04/1999  
Project

Modellering og Prædiktiv Styring af 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 finansieringstheori
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 fjernvarmesystemer
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 kontinuerligt tid
Melgaard, H., Madsen, H., Hendricks, E. & Holst, J.
01/03/1990 → 17/03/1995
Project: PhD

Identifikation af varmedynamikken for bygningskomponenter
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
Activities:

**A Stochastic Method to Manage Delay and Missing Values for In-Situ Sensors in an Alternating Activated Sludge Process**
Stentoft, P. A. (Speaker), Møller, J. K. (Other), Madsen, H. (Other), Mikkelsen, P. S. (Other), Thomas Munk-Nielsen (Other)
13 Jun 2017
Activity: Talks and presentations › Conference presentations

**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