Publications:

Inhomogeneous Markov Models for Describing Driving Patterns
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

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

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

Hidden Markov Models for indirect classification of occupant behaviour
Publication: Research - peer-review › Journal article – 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

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
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

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

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

Parameter estimation in a simple stochastic differential equation for phytoplankton modelling
Møller, J. K., Madsen, H. & Carstensen, J. 2011 In : Ecological Modelling. 222, 11, p. 1793-1799
Publication: Research - peer-review › Journal article – Annual report year: 2011

Stochastic State Space Modelling of Nonlinear systems - With application to Marine Ecosystems
Publication: Research › Ph.D. thesis – Annual report year: 2012

From State Dependent Diffusion to Constant Diffusion in Stochastic Differential Equations by the Lamperti Transform
Publication: Research › Report – Annual report year: 2010

Identification of ecosystem parameters by SDE-modelling
Møller, J. K., Madsen, H. & Carstensen, J. 2010
Publication: Research › Sound/Visual production (digital) – Annual report year: 2010

Dynamic two state stochastic models for ecological regime shifts
Møller, J. K., Carstensen, N. J., Madsen, H. & Andersen, T. 2009 In : Environmetrics. 20, 9, p. 912-927
Publication: Research - peer-review › Journal article – Annual report year: 2009

Parameter Estimation in State Space Models with Multiplicative Noise - Examples
Publication: Research › Report – Annual report year: 2009

Combined Forecast and Quantile Regression for Wind Power Prediction
Publication: Research › Report – Annual report year: 2008

Time-adaptive quantile regression
Møller, J. K., Nielsen, H. A. & Madsen, H. 2008 In : Computational Statistics & Data Analysis. 52, 3, p. 1292-1303
Publication: Research - peer-review › Journal article – Annual report year: 2008

Evaluation of Nonparametric Probabilistic Forecasts of Wind Power
Pinson, P., Møller, J. K., Nielsen, H. A. O. , Madsen, H. & Kariniotakis, G. N. 2007 Informatics and Mathematical Modelling, Technical University of Denmark, DTU.
Publication: Research - peer-review › Report – Annual report year: 2007
Non-parametric probabilistic forecasts of wind power: required properties and evaluation
Publication: Research - peer-review › Journal article – Annual report year: 2007

Algorithms for Adaptive Quantile Regression - and a Matlab Implementation
Møller, J. K., Nielsen, H. A. O., & Madsen, H. 2006
Publication: Research - peer-review › Report – Annual report year: 2006

Regime Shift Models for Simulation of the Interaction between Benthic and Pelagic Production
Møller, J. K., Carstensen, N. J. & Madsen, H. 2006 Informatics and Mathematical Modelling, Technical University of Denmark, DTU.
Publication: Research - peer-review › Report – Annual report year: 2006

Projects:

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 grey-box models for marine ecosystems
Moazzami, H., Christiansen, L. E., Carstensen, N. J. & Møller, J. K.
01/08/2017 → 31/07/2020
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

Enhanced Subsea Acoustically Aided Inertial Navigation
15/12/2011 → 24/02/2016
Project: PhD

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

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