Jan Kloppenborg Møller - DTU Orbit (25/12/2017)

Møller, Jan Kloppenborg

jkmo@dtu.dk

Department of Applied Mathematics and Computer Science - Associate Professor

Dynamical Systems

Publications:

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

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

Moelling 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

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
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
Publication: Research - peer-review › Journal article – 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

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

Introduction to Statistics - eNotes
Publication: Education › Internet publication – 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

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

Inhomogeneous Markov Models for Describing Driving Patterns
Publication: Research › Report – 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

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

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

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. & Guttrop, 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