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Towards Automated Selection of Decentralized Control Structures

Towards Automatic Decentralized Control Structure Selection
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Publication: Research › Article in proceedings – Annual report year: 2001

Automatic Selection of Decentralized Control Structures
Publication: Research › Article in proceedings – Annual report year: 2000

Towards Automatic Decentralized Control Structure Selection
Publication: Research - peer-review › Journal article – Annual report year: 2000

Model Predictive Control Design for an Alternating Nutrient Removal Process
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 1998

Model Predictive Control of a Flow Swing Reactor
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 1998

Operational Implications of Optimality
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 1998

Operational Implications of Optimality
Publication: Research - peer-review › Article in proceedings – Annual report year: 1998

An Output Multiplicity in Binary Distillation: Experimental Verification
Publication: Research - peer-review › Journal article – Annual report year: 1996

Projects:

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

Learning-based Model Predictive Control of Spray Dryers
Miklos, R., Niemann, H. H., Jørgensen, J. B., Petersen, L. N., Poulsen, N. K. & Utzen, C.
01/01/2017 → 31/12/2019
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

Simulation and Optimization of Oil Reservoirs in the Danish North Sea
Hørsholt, S., Jørgensen, J. B., Capolei, A. & Nick, H.
01/12/2015 → 30/11/2018
Project: PhD

Optimal Control of PDE-Constrained Systems
Christiansen, L. H., Jørgensen, J. B., Engsig-Karup, A. P. & Pedersen, M.
15/09/2015 → 25/01/2019
Project: PhD

Nonlinear Model Predictive Control for Oil Reservoirs
Ritschel, T. K. S., Jørgensen, J. B., Capolei, A. & Poulsen, N. K.
15/08/2015 → 14/08/2018
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

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

Model Predictive Control for Commercial Refrigeration in the Smart Grid
Mohd. Azam, S. N., Jørgensen, J. B. & Izadi-Zamanabadi, R.
15/11/2013 → 14/05/2017
Project: PhD

Generic interface development and benchmarking of carbon dioxide reduction processes
01/12/2012 → 20/09/2016
Project: PhD

Economic Model Predictive Control for Spray Drying Plants
01/10/2012 → 22/06/2016
Project: PhD

Optimization Algorithms for Experimental Design, Parameter Estimation, and Control of Dynamic Systems
Frison, G., Jørgensen, J. B., Poulsen, N. K., Engsig-Karup, A. P., Axehill, D. & Ferreau, H. J.
01/10/2012 → 20/04/2016
Project: PhD
Stochastic Model Predictive Control with Applications in Smart Energy Systems
01/07/2012 → 31/03/2016
Project: PhD

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

Economic MPC for Large and Distributed Energy Systems
01/11/2011 → 04/03/2015
Project: PhD

Protein structure refinement by optimization
Carlsen, M., Røgen, P., Stolpe, M., Jørgensen, J. B., Hamelryck, T. & Keasar, C.
01/08/2011 → 30/09/2015
Project: PhD

Scientific GPU Computing for Dynamical Optimization
15/11/2010 → 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

Incremental refinement of process design
Quaglia, A., Sin, G., Gani, R., Sarup, B., Jørgensen, J. B., Bode, A. & Pistikopoulos, E. N.
01/06/2010 → 30/09/2013
Project: PhD

Numerical Methods for Reservoir Simulation and Optimization
Capolei, A., Jørgensen, J. B., Poulsen, N. K., Jansen, J. D. & Knudsen, J. K. H.
01/05/2010 → 25/04/2014
Project: PhD

Power Management for Refrigeration Systems
01/04/2010 → 24/05/2013
Project: PhD

Large-Scale Algorithms for Non-Smooth Convex Optimization
01/02/2010 → 22/11/2013
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
Concurrent Aero-Servo-Elastic analysis and Design of wind turbines
Mirzaei, M., Poulsen, N. K., Niemann, H. H., Jørgensen, J. B., Bottasso, C. L. & Stoustrup, J.
15/08/2009 → 07/03/2013
Project: PhD

Control of Process Operations and Monitoring of Product Qualities through Hybrid Multi-Scale Model-Based Analysis
01/01/2009 → 21/11/2012
Project: PhD

Numerical Methods for Simulation and Optimization of Enhanced Oil Recovery Methods
Völcker, C., Jørgensen, J. B., Thomsen, P. G., Engsig-Karup, A. P., Foss, B. A. & Kristensen, M. R.
01/01/2008 → 24/08/2012
Project: PhD

In Silico Models of Blood Coagulation
Andersen, N. M., Sørensen, M. P., Ingwersen, S. H., Olsen, O. H., Jørgensen, J. B., Monroe, D. M. & Sosnovtseva, O.
01/08/2007 → 20/04/2011
Project: PhD

Model-based predictive control of wind turbines
Henriksen, L. C., Poulsen, N. K., Hansen, M. H., Jørgensen, J. B., Engelen, T. G. V. & Per, B.
15/05/2007 → 02/03/2011
Project: PhD

Ulineær optimal robust styring og vindmølle regulering
Thomsen, S. C., Poulsen, N. K., Niemann, H. H., Jørgensen, J. B. & Stoustrup, J.
15/10/2006 → 29/09/2010
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

Topology Optimization Problems with Design-Dependent Sets of Constraints
Schou, M. H., Stolpe, M., Evgrafov, A., Sigmund, O., Jørgensen, J. B., Kocvara, M. & Svanberg, K.
01/01/2006 → 30/06/2010
Project: PhD

Model Identification for Predictive Control and Optimization
Huusom, J. K., Jørgensen, S. B., Poulsen, N. K., Jørgensen, J. B., Andersen, H. W. & Bombois, X.
01/02/2005 → 24/11/2009
Project: PhD

Optimizing control of integrated processes
Jørgensen, J. B., Jørgensen, S. B., Poulsen, N. K., Marquardt, W. & Strand, S.
01/08/1997 → 03/06/2005
Project: PhD

D.2 Real-time optimising control
Jørgensen, S. B., Pedersen, K. & Jørgensen, J. B.
01/05/1997 → ...
Project
D.3 Operational implications of optimality
Jørgensen, S. B. & Jørgensen, J. B.
01/05/1997 → ...
Project

D.6 Implementation of control into ICAS
Jørgensen, S. B. & Jørgensen, J. B.
01/05/1997 → ...
Project

D.7 Development of toolbox for linear and non-linear MPC
Jørgensen, S. B. & Jørgensen, J. B.
01/05/1997 → ...
Project

E.2 System (Tools) Integration
01/05/1997 → ...
Project