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The Role of Modular Robotics in Mediating Nonverbal Social Exchanges
Publication: Research - peer-review › Journal article – Annual report year: 2009

Towards a Danish power system with 50% wind: — Smart grids activities in Denmark
Publication: Research › Article in proceedings – Annual report year: 2009

Towards a modern concept for teaching control engineering
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

High Performance Low Cost Digitally Controlled Power Conversion Technology
Publication: Research › Ph.D. thesis – Annual report year: 2008

Stability Analysis of the Parametric Roll Resonance under Non-constant Ship Speed
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Context-Aware user interfaces in automation
Publication: Research › Ph.D. thesis – Annual report year: 2007

Mobile Robot Navigation
Andersen, J. C., Ravn, O. & Andersen, N. A. Jan 2007
Publication: Research › Ph.D. thesis – Annual report year: 2007

A Unified Approach to Controllability Analysis for Hybrid Control Systems
Publication: Research - peer-review › Journal article – Annual report year: 2007

Traversable terrain classification for outdoor autonomous robots using single 2D laser scans
Publication: Research - peer-review › Journal article – Annual report year: 2006

Advanced Neural Network Engine Control
Luther, J. B. & Hendricks, E. Mar 2005
Publication: Research › Ph.D. thesis – Annual report year: 2005

Design of Process Displays based on Risk Analysis Techniques
Pauisen, J. L. & Lind, M. Feb 2005 Risø National Laboratory. 144 p. (Risø-PhD; No. 8(EN)).
Publication: Research › Ph.D. thesis – Annual report year: 2005

A fault tolerant control approach for descriptor systems
Autonomous Robot Navigation In Public Nature Park

Compact and Accurate Turbocharger Modelling for Engine Control

Modeling Goals and Functions of Control and Safety Systems in (MFM

Pay-load Estimation of a 2 DOF Flexible Link Robot

Terrain Classification for Outdoor Autonomous Robots using 2D Laser Scans.: Robot perception for dirt road navigation

Description of composite actions - Towards a formalization of safety functions

Evaluering af grænseflader til klimastyring i svinestalde

Fault tolerant controllers for sampled-data systems

Loss optimizing low power 50 Hz transformers intended for AC/DC standby power supplies

Optimizing efficiency on conventional transformer based low power AC/DC standby power supplies

Analysis and design of controllers for a double inverted pendulum

Making Sense of the Abstraction Hierarchy in the Power Plant Domain

The Internal Combustion Engine Modelling: Modelling, Estimation and Control Issues
Mathematical Ship Modeling for Control Applications.
Publication: Research › Report – Annual report year: 2002

Promoting and Opposing
Publication: Research › Report – Annual report year: 2002

An ultra low-power off-line APDM-based switchmode power supply with very high conversion efficiency
Publication: Research - peer-review › Article in proceedings – Annual report year: 2001

Fault diagnosis for non-minimum phase systems using $\mathcal{H}_\infty$ optimization
Publication: Research - peer-review › Article in proceedings – Annual report year: 2001

NNSYSID and NNCTRL Tools for system identification and control with neural networks
Nørgaard, M., Ravn, O. & Poulsen, N. K. 2001 In : Computing & control engineering journal. 12, 1, p. 29-36
Publication: Research - peer-review › Journal article – Annual report year: 2001

Pay-load estimation of a 2DOF flexible link robot using a delta-operator technique
Publication: Research - peer-review › Article in proceedings – Annual report year: 2001

Design of fault detectors using $\mathcal{H}_\infty$ optimization
Publication: Research - peer-review › Article in proceedings – Annual report year: 2000

Dynamic Model for Thrust Generation of Marine Propellers
Publication: Research - peer-review › Article in proceedings – Annual report year: 2000

Knowledge Based Support for Situation Assessment in Human Supervisory Control
Publication: Research › Ph.D. thesis – Annual report year: 2000

Tuning controllers using the dual Youla parameterization
Publication: Research - peer-review › Article in proceedings – Annual report year: 2000

An architecture for implementation of multivariable controllers
Publication: Research › Article in proceedings – Annual report year: 1999

Conceptual Design of Industrial Process Displays
Publication: Research - peer-review › Journal article – Annual report year: 1999
Exact, almost and delayed fault detection: an observer based approach
Publication: Research - peer-review › Article in proceedings – Annual report year: 1999

Plant Modeling for Human Supervisory Control
Lind, M. 1999 In : Institute of Measurement and Control. Transactions. 21, 4-5, p. 171-180
Publication: Research - peer-review › Journal article – Annual report year: 1999

Considerations on agents and objects in multilevel flow modelling
Publication: Research - peer-review › Article in proceedings – Annual report year: 1998

Incorporation of Time Delayed Measurements in a Discrete-time Kalman Filter
Publication: Research - peer-review › Article in proceedings – Annual report year: 1998

Location Estimation using Delayed Measurements
Publication: Research - peer-review › Article in proceedings – Annual report year: 1998

Static Decoupling in fault detection
Publication: Research - peer-review › Article in proceedings – Annual report year: 1998

NNSYSID and NNCTRL - Matlab Tools for System Identification and Control with Neural Networks
Publication: Research - peer-review › Article in proceedings – Annual report year: 1997

Robust fault detection in open loop vs. closed loop
Publication: Research › Journal article – Annual report year: 1997

The Emergence of Levels of Abstraction in Complex Systems
Lind, M. 1997 In : Culture & History. 15, p. 96-107
Publication: Research - peer-review › Journal article – Annual report year: 1997

μ-synthesis for the coupled mass benchmark problem
Publication: Research - peer-review › Article in proceedings – Annual report year: 1997

Status and Challenges of Intelligent Plant Control
Lind, M. 1996 In : Annual Reviews in Control. 20, p. 23-41
Publication: Research - peer-review › Journal article – Annual report year: 1996

An introduction to the special issue on loop transfer recovery
Niemann, H. H. 1995 In : International Journal of Robust and Nonlinear Control. 5, p. 611-613
Publication: Research › Journal article – Annual report year: 1995
LTR Design of propertional integral observers
Publication: Research - peer-review › Journal article – Annual report year: 1995

LTR design of proportional-integral observers
Publication: Research - Journal article – Annual report year: 1995

Robust Performance of Systems with Structured Uncertainties in State Space
Publication: Research - peer-review › Journal article – Annual report year: 1995

General predictive control using the delta operator
Publication: Research - peer-review › Article in proceedings – Annual report year: 1993

H-infinity Optimization of the Recovery Matrix
Niemann, H. H., Søgaard-Andersen, P. & Stoustrup, J. 1993 In: Control-Theory And Advanced Technology. 9, 2, p. 547-564
Publication: Research - peer-review › Journal article – Annual report year: 1993

State-space solutions to the h_inf/ltr design problem
Publication: Research - peer-review › Journal article – Annual report year: 1993

Higher Order Continuous SI Engine Observers
Publication: Research - peer-review › Article in proceedings – Annual report year: 1992

The evolution of CACSD tools-a software engineering perspective
Publication: Research - peer-review › Article in proceedings – Annual report year: 1992

Loop transfer recovery for general observer architecture
Publication: Research - peer-review › Journal article – Annual report year: 1991

Real-time adaptive control using CPAS on a MC68010-based process computer
Publication: Research - peer-review › Article in proceedings – Annual report year: 1991

An Analysis Of Pole/zero Cancellation In LTR-based Feedback Design
Publication: Research - peer-review › Article in proceedings – Annual report year: 1990

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

On user-friendly interface construction for CACSD packages
Publication: Research - peer-review › Article in proceedings – Annual report year: 1989
**New Results in Discrete-Time Loop Transfer Recovery**  
Publication: Research - peer-review › Article in proceedings – Annual report year: 1988

**Stability Margins for Discrete-Time Optimal Regulators**  
Publication: Research - peer-review › Article in proceedings – Annual report year: 1988

**The Impact of Analog and Bang-Bang Steering Gear Control on Ship’s Fuel Economy**  
Publication: Research - peer-review › Article in proceedings – Annual report year: 1982

**Electrical Resistivity Investigations on Metallic Rare-Earths**  
Publication: Research › Book chapter – Annual report year: 1980

**Temperature Variation of the Magnetic Structure of HoSb**  
Publication: Research › Journal article – Annual report year: 1980

**Projects:**

**A Biomimetic Learning Control Scheme for control of Modular Robots**  
Tolu, S.  
16/01/2017 → 14/01/2019  
Project

**Human Brain Project. Subproject 10 Neurorobotics Platform**  
Tolu, S., Lund, H. H., Capolei, M. C. & Corchado Miralles, C.  
01/04/2016 → 01/04/2018  
Project

**Reconfigurable Modular Robotic System for Aquatic Environment**  
Galeazzi, R., Christensen, D. J., Mariani, P., Visser, A., Ozkil, A. G. & Nielsen, U. D.  
01/02/2016 → 31/01/2018  
Project

**ERIGrid: European Research Infrastructure supporting Smart Grid Systems Technology Development, Validation and Roll Out**  
Kosek, A. M., Gehrke, O., Bondy, D. E. M., Bindner, H. W. & Heussen, K.  
01/11/2015 → 30/04/2020  
Project

**Use of Multilevel Flow Modelling for on-line supervision in the oil and gas industry**  
Ravn, O., Lind, M. & Zhang, X.  
01/05/2015 → 01/09/2015  
Project

**Dynamic Propeller Shaft Speed Control**  
Galeazzi, R. & Andersen, P.  
01/04/2015 → 01/05/2017  
Project
Intelligent Quality Assessment of Railway Switches and Crossings
01/03/2015 → 28/02/2019
Project

Fault-Tolerant Control with Coarse Models in industrial Application
Papageorgiou, D., Blanke, M. & Niemann, H. H.
15/08/2014 → 15/08/2017
Project

SALVAGE: Cyber-physicAl security for Low-VolTAGE grids
Kosek, A. M., Gehrke, O., Heussen, K. & Prostejovsky, A. M.
01/04/2014 → 01/04/2017
Project

Kunstig intelligence og sprogudvikling
Jessen, J. D.
01/02/2014 → 30/11/2014
Project

European Liaison on Electricity grid Committed Towards long-term Research Activities
01/12/2013 → 28/02/2018
Project

Play for Children with Disabilities
Jessen, J. D.
19/05/2013 → 18/05/2018
Project

RTLabOS: Phase I - Exploring software infrastructure for smart grid labs
01/04/2013 → 20/12/2014
Project

Optimal sizing and control of balancing power in the future European system considering transmission system constraints
Andersson, G., Østergaard, J. & Heussen, K.
01/09/2012 → 01/09/2015
Project

Innovation consortium Real time Controlled Robots for the Meat Industry
Ravn, O., Andersen, T. T., Andersen, N. A. & Wu, H.
01/05/2012 → 30/04/2016
Project

Secure Operation of Sustainable Power Systems
01/01/2012 → 31/03/2016
Project

Activities:
International Symposium on Future I&C for Nuclear Power Plants
Kirchhübel, D. (Speaker)
26 Nov 2017 → 29 Nov 2017
Activity: Talks and presentations › Conference presentations

A Scalable Neuro-inspired Robot Controller Integrating a Machine Learning Algorithm and a Spiking Cerebellar-Like Network
Tolu, S. (Speaker), Lund, H. H. (Other)
28 Jul 2017
Activity: Talks and presentations › Conference presentations

Department of Mechanical Engineering (Organisational unit)
Blanke, M. (Chairman)
1 Jul 2017 → 26 Sep 2017
Activity: Membership › Membership in review committee

Linköping University (External organisation)
Blanke, M. (Member)
1 Feb 2017 → 8 Mar 2017
Activity: Membership › Membership in review committee

13th European Workshop on Advanced Control and Diagnosis
Kirchhübel, D. (Speaker)
19 Nov 2016
Activity: Talks and presentations › Conference presentations

Professorship evaluation (External organisation)
Blanke, M. (Participant)
15 Oct 2016 → 15 Dec 2016
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

5th Neurorobotics Performance Show
Tolu, S. (Participant)
17 Feb 2016 → 19 Feb 2016
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

3rd HBP Education Programme
Tolu, S. (Participant)
11 Jan 2016 → 15 Jan 2016
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Member of DTU Academic Council (External organisation)
Ravn, O. (Participant)
2015 → …
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

Dynamic Modeling, Advanced Control, Diagnosis and Optimization of Large-Scale Lignocellulosic Biorefineries
Prunescu, R. M. (Speaker)
11 Nov 2015
Activity: Talks and presentations › Conference presentations

Plantwide Model-Based Optimization of a Large Scale Second Generation Biorefinery
Prunescu, R. M. (Speaker)
10 Nov 2015
Activity: Talks and presentations › Conference presentations
International Journal of Adaptive Control and Signal Processing (Journal)
Blanke, M. (Reviewer)
1 Oct 2015 → 1 May 2017
Activity: Research › Journal editor

EuroAsianPacific Joint Conference on Cognitive Science
Tolu, S. (Speaker)
25 Sep 2015 → 27 Sep 2015
Activity: Talks and presentations › Conference presentations

2015 IEEE Multi-Conference on Systems and Control
Papageorgiou, D. (Participant)
23 Sep 2015
Activity: Attending an event › Participating in or organising a conference

10th IFAC Conference on Manoeuvring and Control of Marine Craft
Blanke, M. (Organizer)
24 Aug 2015
Activity: Attending an event › Participating in or organising a conference

Dynamic Modeling and Optimization of Large Scale Lignocellulosic Biorefineries
Prunescu, R. M. (Invited speaker)
18 Aug 2015
Activity: Talks and presentations › Conference presentations

Field Robot Event 2015
Ravn, O. (Participant)
15 Jun 2015 → 18 Jun 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

DAu Konference: Den 4. Industrielle Revolution
Ravn, O. (Organizer)
10 Jun 2015
Activity: Attending an event › Participating in or organising a conference

In committee for PhD thesis evaluation at Linköping University, Sweden (External organisation)
Blanke, M. (Participant)
22 May 2015
Activity: Membership › Membership in review committee

Professorship Evaluation for NTNU - International Chair (External organisation)
Blanke, M. (Participant)
1 May 2015 → 30 Jun 2015
Activity: Membership › Membership in review committee

Kompetenceudviklingsdage
Ravn, O. (Speaker)
21 Apr 2015
Activity: Other

Control of Drones
Hansen, S. (Lecturer)
11 Mar 2015
Activity: Talks and presentations › Conference presentations
Evaluation for University of Cambridge (External organisation)
Blanke, M. (Participant)
25 Jan 2015 → 6 Feb 2015
Activity: Membership › Membership in review committee

IFAC Technical Committee on Marine Systems (External organisation)
Blanke, M. (Participant)
2014 → 2017
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

PhD Thesis Jury Member at Universitat Politecnica de Catalunya (External organisation)
Tabatabaeipour, M. (Participant)
2014
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

University of Bordeaux (External organisation)
Blanke, M. (Participant)
19 Nov 2014
Activity: Membership › Membership in review committee

2014 AIChE Annual Meeting: American Institute of Chemical Engineers
Prunescu, R. M. (Speaker)
17 Nov 2014 → 21 Nov 2014
Activity: Talks and presentations › Conference presentations

Dynamic Simulation, Sensitivity and Uncertainty Analysis of a Demonstration Scale Lignocellulosic Enzymatic Hydrolysis Process
Prunescu, R. M. (Speaker)
16 Nov 2014 → 21 Nov 2014
Activity: Talks and presentations › Conference presentations

Model-Based Filtering of Large-Scale Datasets - A Biorefinery Application
Prunescu, R. M. (Speaker)
16 Nov 2014 → 21 Nov 2014
Activity: Talks and presentations › Conference presentations

Aarhus University (External organisation)
Blanke, M. (Participant)
12 Nov 2014
Activity: Membership › Membership in review committee

University of Cambridge (External organisation)
Blanke, M. (Participant)
3 Nov 2014
Activity: Membership › Membership in review committee

Linköping University (External organisation)
Blanke, M. (Participant)
25 Apr 2014
Activity: Membership › Membership in review committee

Referee, Professor in Robotics at Queensland University of Technology (External organisation)
Blanke, M. (Participant)
28 Jan 2014 → 10 Feb 2014
Activity: Membership › Membership in review committee
Drones on Autopilot
Hansen, S. (Lecturer)
14 Jan 2014
Activity: Talks and presentations › Conference presentations

International Journal of Adaptive Control and Signal Processing (Journal)
Blanke, M. (Editor)
1 Jan 2014 → 1 May 2015
Activity: Research › Journal editor

52nd IEEE Conference on Decision and Control (CDC 2013)
Prunescu, R. M. (Speaker)
10 Dec 2013 → 13 Dec 2013
Activity: Talks and presentations › Conference presentations

Biofuel Session
Prunescu, R. M. (Speaker)
18 Aug 2013 → 23 Aug 2013
Activity: Talks and presentations › Conference presentations

2013 American Control Conference
Prunescu, R. M. (Speaker)
17 Jun 2013 → 19 Jun 2013
Activity: Talks and presentations › Conference presentations

10th IEEE International Conference on Control & Automation
Ravn, O. (Speaker)
12 Jun 2013 → 14 Jun 2013
Activity: Talks and presentations › Conference presentations

Danvak Dagen 2013
Hovgaard, T. G. (Invited speaker)
10 Apr 2013
Activity: Talks and presentations › Conference presentations

DTU RoboCup 2013
Ravn, O. (Organizer)
9 Apr 2013 → 11 Apr 2013
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

European Robotic Forum 2013
Ravn, O. (Speaker)
19 Mar 2013 → 21 Mar 2013
Activity: Talks and presentations › Conference presentations

37th Enlarged Halden Programme Group Meeting
Zhang, X. (Speaker)
10 Mar 2013 → 15 Mar 2013
Activity: Talks and presentations › Conference presentations

10th European Workshop on Advanced Control and Diagnosis
Ravn, O. (Participant)
8 Nov 2012 → 9 Nov 2012
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.
10th European Workshop on Advanced Control and Diagnosis
Prunescu, R. M. (Speaker)
8 Nov 2012 → 9 Nov 2012
Activity: Talks and presentations › Conference presentations

International Workshop on Functional Modelling
Ravn, O. (Participant)
6 Nov 2012 → 7 Nov 2012
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

International Workshop on Functional Modelling
Zhang, X. (Speaker)
6 Nov 2012 → 7 Nov 2012
Activity: Talks and presentations › Conference presentations

8th HOLMUG meeting
Ravn, O. (Participant)
18 Oct 2012 → 19 Oct 2012
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

8th HOLMUG meeting
Zhang, X. (Speaker)
18 Oct 2012 → 19 Oct 2012
Activity: Talks and presentations › Conference presentations

Aalborg University (External organisation)
Blanke, M. (Participant)
5 Oct 2012 → 18 Dec 2012
Activity: Membership › Membership in review committee

Modelling and Control of Stiff Robots for Flexible Manufacturing (External organisation)
Ravn, O. (Participant)
7 Sep 2012
Activity: Membership › Membership in review committee

1st International Symposium on Socially and Technically Symbiotic Systems
Zhang, X. (Speaker)
29 Aug 2012 → 31 Aug 2012
Activity: Talks and presentations › Conference presentations

16th IFAC Symposium on System Identification
Ravn, O. (Invited speaker)
11 Jul 2012 → 13 Jul 2012
Activity: Talks and presentations › Conference presentations

Linköping University (External organisation)
Blanke, M. (Participant)
15 Jun 2012
Activity: Membership › Membership in review committee

Aalborg University (External organisation)
Blanke, M. (Participant)
21 Mar 2012
Activity: Membership › Membership in review committee
DTU RoboCup 2012
Ravn, O. (Organizer)
20 Mar 2012 → 22 Mar 2012
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

European Robotic Forum 2012
Ravn, O. (Speaker)
5 Mar 2012 → 7 Mar 2012
Activity: Talks and presentations › Conference presentations

5th International Conference on Cognitive Systems
Ravn, O. (Participant)
22 Feb 2012 → 23 Feb 2012
Activity: Attending an event › Participating in or organising a conference

17th Nordic Process Control Workshop
Prunescu, R. M. (Speaker)
25 Jan 2012 → 27 Jan 2012
Activity: Talks and presentations › Conference presentations

Innovation Network RoboCluster (External organisation)
Ravn, O. (Chairman)
1 Jan 2012 → 31 Dec 2012
Activity: Membership › Membership of research networks or expert groups

Member IFAC Technical Committee on Marine Systems (External organisation)
Blanke, M. (Participant)
2011 → 2014
Activity: Membership › Membership of commitees, commissions, boards, councils, associations, organisations, or similar

Teaching Evaluation Exercise at Aalto University (External organisation)
Ravn, O. (Chairman)
2011 → …
Activity: Membership › Membership in review committee

Linköping University (External organisation)
Blanke, M. (Participant)
28 Dec 2011 → 1 Mar 2012
Activity: Membership › Membership in review committee

2011 American Control Conference
Ravn, O. (Speaker)
29 Jun 2011 → 1 Jul 2011
Activity: Talks and presentations › Conference presentations

DTU RoboCup 2011
Ravn, O. (Organizer)
22 Mar 2011 → 24 Mar 2011
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

The Industrial PhD Programme Committee (External organisation)
Ravn, O. (Participant)
1 Jan 2009 → 31 Dec 2014
Activity: Membership › Membership of commitees, commissions, boards, councils, associations, organisations, or similar
International Conference On Cognitive Systems
Tolu, S. (Participant)
2008
Activity: Attending an event › Participating in or organising a conference

Member of the board of DIRA, Danish Industrial Robot Association (External organisation)
Ravn, O. (Participant)
2008 → 2015
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

Control Engineering Practice (Journal)
Blanke, M. (Reviewer)
Oct 2008 → …
Activity: Research › Journal editor

Seventh International Workshop on Information Processing in Cells and Tissues
Tolu, S. (Speaker)
2007
Activity: Talks and presentations › Conference presentations

IEEE Transactions on Aerospace and Electronic Systems (Journal)
Blanke, M. (Editor)
Oct 2007 → Dec 2016
Activity: Research › Journal editor

IEEE Transactions on Aerospace and Electronic Systems (Journal)
Blanke, M. (Editor)
Oct 2007 → Dec 2016
Activity: Research › Journal editor

International Work Conference on Artificial Neural Networks
Tolu, S. (Speaker)
Jun 2007
Activity: Talks and presentations › Conference presentations

Member of DTU Academic Council (External organisation)
Ravn, O. (Participant)
2005 → 2011
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

Prizes:

Best Student Paper Award
Emil Krabbe Nielsen (Recipient), 29 Nov 2017
Prize: Prizes, scholarships, distinctions

Press clippings:

New Universal Robots Driver Makes Manipulation Research Easier
Thomas Timm Andersen
09/02/2016
1 media contribution
Press / Media