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Tuning controllers using the dual Youla parameterization
An architecture for implementation of multivariable controllers

Conceptual Design of Industrial Process Displays

Exact, almost and delayed fault detection: an observer based approach

Plant Modeling for Human Supervisory Control

Considerations on agents and objects in multilevel flow modelling

Incorporation of Time Delayed Measurements in a Discrete-time Kalman Filter

Location Estimation using Delayed Measurements

Static Decoupling in fault detection

NNSYSID and NNCTRL - Matlab Tools for System Identification and Control with Neural Networks

Robust fault detection in open loop vs. closed loop

The Emergence of Levels of Abstraction in Complex Systems
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Continuous Identification of a Four-Stroke SI Engine
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On user-friendly interface construction for CACSD packages
Publications: Research - peer-review › Article in proceedings – Annual report year: 1989

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Publications: Research - peer-review › Article in proceedings – Annual report year: 1988

Stability Margins for Discrete-Time Optimal Regulators
Publications: 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
Publications: Research - peer-review › Article in proceedings – Annual report year: 1982

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

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Publications: Research › Journal article – Annual report year: 1980

Projects:

Human Brain Project. Subproject 10 Neurorobotics Platform (HBP) - SGA2
Tolu, S., Capolei, M. C., Corchado Miralles, C. & Lund, H. H.
02/04/2018 → 01/04/2020
Project

Electronic Outlook
Blanke, M. & Hansen, S.
15/10/2017 → 30/09/2018
Project

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 - SGA1
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:

Automation and Control (Organisational unit)
Blanke, M. (Chairman)
15 Sep 2018 → 15 Oct 2018
Activity: Membership › Membership in review committee

International Symposion 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

EuroAsian Pacific 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 committees, 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 committees, 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

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

I E E E 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

**Go morgen P3**
Ole Ravn
24/06/2015
1 media contribution
Press / Media

**Tag iPad’en med hjem**
Jari Due Jessen
23/04/2015
1 media contribution
Press / Media

**Go morgen P3**
Ole Ravn
28/10/2014
1 media contribution
Press / Media

**DR2 Morgen**
Ole Ravn
24/10/2014
1 media contribution
Press / Media

**P1 Morgen**
Ole Ravn
24/10/2014
1 media contribution
Press / Media

**Børn koder robotter: Coding Pirates**
Jari Due Jessen
Derfor er det smart at dreje batterierne i fjernbetjeningen
Ole Ravn
16/01/2014
1 media contribution
Press / Media

DR2 Dagen
Ole Ravn
18/12/2013
1 media contribution
Press / Media

Automatiske dræber-robotter møder kritik
Ole Ravn
31/05/2013
1 media contribution
Press / Media

Aftenshowet
Ole Ravn
11/04/2013
1 media contribution
Press / Media