Hans Henrik Niemann - DTU Orbit (04/02/2018)

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Automation and Control

Publications:

Condition monitoring of a rotor arrangement in particular a wind turbine
Niemann, H. H., Poulsen, N. K., Mirzaei, M. & Henriksen, L. C. 8 Jun 2017
Publication: Research › Patent – Annual report year: 2017

An experimentally validated simulation model for a four-stage spray dryer
Publication: Research - peer-review › Journal article – Annual report year: 2017

Backlash Estimation for Industrial Drive-Train Systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Comparison of three control strategies for optimization of spray dryer operation
Publication: Research - peer-review › Journal article – Annual report year: 2017

Enhancing damping of gas bearings using linear parameter-varying control
Theisen, L. R. S., Niemann, H. H., Galeazzi, R. & Santos, I. 2017 In : Journal of Sound and Vibration. 365, p. 48–64
Publication: Research - peer-review › Journal article – Annual report year: 2017

Fault diagnosis and condition monitoring of wind turbines
Publication: Research - peer-review › Journal article – Annual report year: 2017

High Accuracy Nonlinear Control and Estimation for Machine Tool Systems
Publication: Research › Ph.D. thesis – Annual report year: 2017

Stability Boundaries for Offshore Wind Park Distributed Voltage Control
Publication: Research - peer-review › Journal article – Annual report year: 2016

Active Fault Detection Based on a Statistical Test
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Advanced Control of Active Bearings - Modelling, Design and Experiments
Theisen, L. R. S., Niemann, H. H. & Galeazzi, R. 2016 Technical University of Denmark, Department of Electrical Engineering. 246 p.
An application of gain-scheduled control using state-space interpolation to hydroactive gas bearings

Diagnosis of wind turbine rotor system

Industrial application of model predictive control to a milk powder spray drying plant

Model Predictive Control of Sewer Networks

Active Fault Diagnosis in Sampled-data Systems

Adaptive Backstepping Control of Lightweight Tower Wind Turbine

Closed loop identification using a modified Hansen scheme: Paper

Comparison of Linear and Nonlinear Model Predictive Control for Optimization of Spray Dryer Operation

Estimation of Parametric Fault in Closed-loop Systems

Experimental Investigations of Decentralised Control Design for The Stabilisation of Rotor-Gas Bearings

Fault diagnosis based on controller modification
Fault Tolerance for Industrial Actuators in Absence of Accurate Models and Hardware Redundancy
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Gas Bearing Control for Safe Operation in Critical Speed Regions - Experimental Verification: Paper
Publication: Research - peer-review › Conference article – Annual report year: 2015

Identifying parameters in active magnetic bearing system using LFT formulation and Youla factorization
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Modelling and Identification for Control of Gas Bearings
Publication: Research - peer-review › Journal article – Annual report year: 2015

Offshore Wind Park Control Assessment Methodologies to Assure Robustness
Publication: Research › Ph.D. thesis – Annual report year: 2015

On Early Conflict Identification by Requirements Modeling of Energy System Control Structures
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Wind turbine inverter robust loop-shaping control subject to grid interaction effects
Publication: Research - peer-review › Journal article – Annual report year: 2015

Active fault detection in MIMO systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Active Fault Isolation in MIMO Systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Adaptive Passivity Based Individual Pitch Control for Wind Turbines in the Full Load Region
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Application of Constrained Linear MPC to a Spray Dryer
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014
A Simple Method for Estimation of Parameters in First order Systems
Publication: Research - peer-review › Conference article – Annual report year: 2014

Controller modification applied for active fault detection
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Economic Optimization of Spray Dryer Operation using Nonlinear Model Predictive Control
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Experimental Grey Box Model Identification of an Active Gas Bearing
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Model based active power control of a wind turbine
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Modelling of Rotor-gas bearings for Feedback Controller Design
Publication: Research - peer-review › Conference article – Annual report year: 2014

A Grey-Box Model for Spray Drying Plants
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

An MPC approach to individual pitch control of wind turbines using uncertain LIDAR measurements
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Exhaust Gas Recirculation Control for Large Diesel Engines - Achievable Performance with SISO Design
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Fault tolerant control of systems with saturations
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Frequency weighted model predictive control of wind turbine
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Model Predictive Control of Wind Turbines using Uncertain LIDAR Measurements
Plant-wide dynamic and static optimisation of supermarket refrigeration systems

The Potential of Economic Model Predictive Control for Spray Drying Plants

A model–based approach to fault–tolerant control

Designing Trailing Edge Flaps of Wind Turbines using an Integrated Design Approach
Mirzaei, M., Poulsen, N. K. & Niemann, H. H. 2012

Fault diagnosis of a Wind Turbine Rotor using a Multi-blade Coordinate Framework

Individual Pitch Control Using LIDAR Measurements

Model Predictive Control of a Nonlinear System with Known Scheduling Variable

Monitoring of a Wind Turbine Rotor using a Multi-blade Coordinate Framework

Operation Design of Wind Turbines in Strong Wind Conditions

Optimising performance in steady state for a supermarket refrigeration system

Performance Assessment and Active System Monitoring for Refrigeration Systems
Plant-wide performance optimisation – The refrigeration system case
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Robust Model Predictive Control of a Nonlinear System with Known Scheduling Variable and Uncertain Gain
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Robust Model Predictive Control of a Wind Turbine
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Wind Turbine Control: Robust Model Based Approach
Publication: Research › Ph.D. thesis – Annual report year: 2013

A concept for a bachelor program in electrical engineering
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

A μ-Synthesis Approach to Robust Control of a Wind Turbine
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Constraint Handling within a Multi-blade Coordinate Framework of a Wind Turbine
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Control Architecture Modeling for Future Power Systems
Publication: Research › Ph.D. thesis – Annual report year: 2012

Design of excitation signals for active system monitoring in a performance assessment setup
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Detecting asymmetries in the rotor of a wind turbine using the multi-blade coordinate transformation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

DK-iteration robust control design of a wind turbine
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

H∞ Control of a Wind Turbine
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011
Performance improvement clarification for refrigeration system using active system monitoring
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Robust stability in constrained predictive control through the Youla parameterisations
Publication: Research - peer-review › Journal article – Annual report year: 2011

Wind turbine control and model predictive control for uncertain systems
Publication: Research › Ph.D. thesis – Annual report year: 2010

Active fault diagnosis by controller modification
Publication: Research - peer-review › Journal article – Annual report year: 2010

Active Sensor Configuration Validation for Refrigeration Systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

A model-based approach for fault-tolerant control
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Control switching in high performance and fault tolerant control
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

On the choice of performance assessment criteria and their impact on the overall system performance: The refrigeration system case study
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Robust stability in predictive control with soft constraints
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Stochastic wind turbine control in multiblade coordinates
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

A Concept for fault tolerant controllers
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Active Fault Diagnosis - A Stochastic Approach
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009
Individual pitch control of wind turbines using local inflow measurements
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Information Based Fault Diagnosis
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

MPC for uncertain systems using the Youla parameterizations
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

A Multi-Model Approach for System Diagnosis
Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

Stochastic Change Detection based on an Active Fault Diagnosis Approach
Poulsen, N. K. & Niemann, H. H. 2007 The 8th Conference on Diagnostics of Processes and Systems (DPS 2007), Slubice, Poland. p. 113-120
Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

Stochastic Change Detection based on an Active Fault Diagnosis Approach
Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

Active fault diagnosis by temporary destabilization
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Active fault diagnosis in closed-loop uncertain systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

A setup for active fault diagnosis
Publication: Research - peer-review › Journal article – Annual report year: 2006

Fault isolability conditions for linear systems with additive faults
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Fault tolerant control for uncertain systems with parametric faults
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Parameterization of extended systems
Publication: Research - peer-review › Journal article – Annual report year: 2006
Rapprochement between Active Fault Diagnosis and Change Detection in ARMAX Systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

An architecture for fault tolerant controllers
Publication: Research - peer-review › Journal article – Annual report year: 2005

Active fault diagnosis in closed-loop systems
Niemann, H. H. & Poulsen, N. K. 2005 IFAC World Congress.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

A fault tolerant control approach for descriptor systems
Publication: Research › Conference article – Annual report year: 2005

Design and Analysis of Controllers for an Double Inverted Pendulum
Publication: Research - peer-review › Journal article – Annual report year: 2005

Fault tolerant control based on active fault diagnosis
Publication: Research - peer-review › Conference article – Annual report year: 2005

Passive fault tolerant control of a double inverted pendulum - a case study
Publication: Research - peer-review › Journal article – Annual report year: 2005

Fault tolerant control for unstable systems: A linear time varying approach
Publication: Research - peer-review › Conference article – Annual report year: 2004

Fault tolerant controllers for sampled-data systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2004

Switching Between Multivariable Controllers
Publication: Research - peer-review › Journal article – Annual report year: 2004

Analysis and design of controllers for a double inverted pendulum
Publication: Research - peer-review › Article in proceedings – Annual report year: 2003

Analysis and design of controllers for an inverted double pendulum
Publication: Research - peer-review › Article in proceedings – Annual report year: 2003

An Architecture for Fault Tolerant Controllers
Publication: Research - peer-review › Report – Annual report year: 2003

Controller reconfiguration based on LTR design
Dual Youla parameterization
Publication: Research - peer-review › Journal article – Annual report year: 2003

Iterative Identification for Control and Robust Performance of Bioreactor
Publication: Research - peer-review › Article in proceedings – Annual report year: 2003

Optimal threshold functions for fault detection and isolation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2003

Passitive fault tolerant control of an inverted double pendulum - A case study example
Publication: Research - peer-review › Article in proceedings – Annual report year: 2003

Structural Analysis - A case study of the Rømer Satellite
Publication: Research - peer-review › Article in proceedings – Annual report year: 2003

Applying parametric fault detection to a mechanical system
Publication: Research - peer-review › Article in proceedings – Annual report year: 2002

Detection of parametric faults
Publication: Research - peer-review › Article in proceedings – Annual report year: 2002

Fault estimation - A standard problem approach
Publication: Research - peer-review › Journal article – Annual report year: 2002

Fine-pointing control for the Rømer Satellite
Ziegler, B., Blanke, M. & Niemann, H. H. 2002
Publication: Research › Report – Annual report year: 2002

Optimal fault signal estimation
Publication: Research - peer-review › Journal article – Annual report year: 2002

Performance based fault diagnosis
Publication: Research - peer-review › Article in proceedings – Annual report year: 2002

Reliable control using the primary and dual Youla parameterizations
Publication: Research - peer-review › Article in proceedings – Annual report year: 2002

Robust control, fault diagnosis and fault tolerant control - a standard setup approach
Niemann, H. H. 2002
Publication: Research › Report – Annual report year: 2002

Rømer Subsystem Analysis for Fault Detection Design
Lorentzen, T., Blanke, M. & Niemann, H. H. 2002
Publication: Research › Report – Annual report year: 2002

Towards high performance in industrial refrigeration systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2002

Delays in fault detection and isolation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2001

Fault diagnosis for non-minimum phase systems using H∞ optimization
Publication: Research - peer-review › Article in proceedings – Annual report year: 2001

Fault tolerant feedback control using the youla parameterization
Publication: Research - peer-review › Article in proceedings – Annual report year: 2001

Application of an Application of an H_inf based FDI and control scheme for the three tank system
Publication: Research - peer-review › Article in proceedings – Annual report year: 2000

Design of fault detectors using H∞ optimization
Publication: Research - peer-review › Article in proceedings – Annual report year: 2000

Editorial - special issue on fault detection and identification
Publication: Research - peer-review › Journal article – Annual report year: 2000

Fundamental problems in fault detection and identification
Publication: Research - peer-review › Journal article – Annual report year: 2000

Optimal fault estimation
Publication: Research - peer-review › Article in proceedings – 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
Application of the dual Youla parameterization
Publication: Research › Article in proceedings – Annual report year: 1999

Dynamic orders of decentralized H_{\infty} controllers
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

Fault detection and isolation in systems with parametric faults
Publication: Research › Article in proceedings – Annual report year: 1999

Fundamental problems in fault detection and identification
Publication: Research › Article in proceedings – Annual report year: 1999

Gain scheduling using the Youla parameterization
Publication: Research › Article in proceedings – Annual report year: 1999

Norm based design of fault detectors
Publication: Research - peer-review › Journal article – Annual report year: 1999

An application of LTR design in fault detection
Publication: Research - peer-review › Journal article – Annual report year: 1998

Fault detection for nonlinear systems - A standard problem approach
Publication: Research - peer-review › Article in proceedings – Annual report year: 1998

Multi Objective Design Techiques applied to Fault Detection and Isolation
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
Design of integrated systems for control and detection of actuator/sensor faults.
Publication: Research - peer-review › Journal article – Annual report year: 1997

Fault detection using (PI) observers.
Publication: Research - peer-review › Paper – Annual report year: 1997

Integration of control and fault detection: Nominal and robust design.
Publication: Research - peer-review › Paper – Annual report year: 1997

Multi Objective Control for Multivariable Systems with Mixed Sensitivity Specifications
Publication: Research - peer-review › Journal article – Annual report year: 1997

Near optimal decentralized H_inf control: Bounded vs. unbounded controller orders.
Publication: Research - peer-review › Paper – Annual report year: 1997

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

Starting up unstable multivariable controllers safety.
Publication: Research - peer-review › Paper – Annual report year: 1997

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

An LMI Approach to Fixed Order LTR Controller
Publication: Research - peer-review › Report – Annual report year: 1996

An LMI approach to fixed order LTR controller
Publication: Research - peer-review › Article in proceedings – Annual report year: 1996

Design of Integrated Devices for Control and Detection of Actuator: Sensor Faults
Publication: Research - peer-review › Report – Annual report year: 1996

Dynamical Orders of Decentralized H-infinity Controllers
Publication: Research - peer-review › Report – Annual report year: 1996

Fault Detection and Isolation using Multi Objective Controller Design Techniques
Publication: Research - peer-review › Report – Annual report year: 1996
Fault Detection in Closed Loop by Standard H-infinity Methods
Publication: Research - peer-review › Article in proceedings – Annual report year: 1996

Filter design for failure detection and isolation in the presence of modeling errors and disturbances
Publication: Research - peer-review › Article in proceedings – Annual report year: 1996

Filter Design for Failure Detection and Isolation in the Presence of Modeling Errors and Disturbances
Publication: Research - peer-review › Article in proceedings – Annual report year: 1996

Improved Recovery in H-infinity/LTR Design
Publication: Research - peer-review › Article in proceedings – Annual report year: 1996

Loop Transfer Recovery for Sampled-data Systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 1996

LTR Design of Discrete-time Proportional-integral Observers
Publication: Research - peer-review › Journal article – Annual report year: 1996

Sensitivity Synthesis for MIMO Systems: A Multi Objective H^2 Approach
Publication: Research - peer-review › Report – 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 proportional 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

H-infinity Optimization of the Recovery Matrix
Niemann, H. H., Segaard-Andersen, P. 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_infinity_ltr design problem
Publication: Research - peer-review › Journal article – Annual report year: 1993
Loop transfer recovery for general observer architecture
Publication: Research - peer-review › Journal article – Annual report year: 1991

A Frequency Domain Design Method For Sampled-Data Compensators
Publication: Research - peer-review › Article in proceedings – Annual report year: 1990

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

A parametric LTR solution for discrete-time systems
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

Projects:

Model Predictive Control in Urban Systems
15/09/2017 → 14/09/2020
Project: PhD

Detection and evaluation of abnormal events in complex industrial processes
Hallgrimsson, A. D., Niemann, H. H. & Lind, M.
15/08/2017 → 14/08/2020
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

Model Predictive Control strategies for real-time control of urban storm and wastewater systems
01/09/2016 → …
Project: PhD

Fault Diagnosis and Optimal Control of Electro - Mechanical systems
Sekunda, A. K., Niemann, H. H., Poulsen, N. K., Santos, I., Galeazzi, R., Kallesæe, C. S. & Kinnaert, M.
15/12/2014 → 14/12/2017
Project: PhD

Fault-Tolerant Control with Coarse Models in industrial Application
Papageorgiou, D., Blanke, M. & Niemann, H. H.
high Accuracy Nonlinear Control anh Estimation for Machine Tool Systems
15/08/2014 → 11/10/2017
Project: PhD

Modular Robotics for Underwater Environments
Furno, L., Blanke, M., Christensen, D. J., Niemann, H. H., Ludvigsen, M. & Schultz, U. P.
15/12/2013 → 14/03/2017
Project: PhD

Advanced Control of Smart Materials Applied to Sustainable Technology
Theisen, L. R. S., Niemann, H. H., Galeazzi, R., Santos, I., Andreasen, C. S., Grigoriadis, K. M. & Verhaegen, M.
01/05/2013 → 07/09/2016
Project: PhD

Emergency Control in Power Transmission
Pedersen, A. S., Blanke, M., Johansson, H., Tabatabaepour, M., Niemann, H. H., Erlich, I. & Stoustrup, J.
01/11/2012 → 20/01/2016
Project: PhD

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

Validation of Control Services in Future Sustainable Power Systems
15/09/2012 → 10/05/2017
Project: PhD

Offshore Wind Park Control Assessment Methodologies to Assure Robustness and Fault tolerance
01/09/2012 → 20/01/2016
Project: PhD

Consequence Reasoning in Multilevel Flow Modeling and its Application
Zhang, X., Ravn, O., Lind, M., Niemann, H. H., Cameron, I. & Gofuku, A.
01/03/2012 → 18/06/2015
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

Situation Assessment for Mobile Robots
01/07/2009 → 21/06/2013
Project: PhD

Fejdianos og fejlhåndtering til autonome fly
Hansen, S., Blanke, M., Adrian, J., Niemann, H. H., Gustafsson, F. & Henry, D.
Active performance assessment and system monitoring for refrigeration systems
01/12/2008 → 27/09/2012
Project: PhD

Control Architecture for Future Power Systems
Heussen, K., Niemann, H. H., Lind, M., Østergaard, J., Jiang, J. & Rehtanz, C.
01/04/2008 → 21/02/2012
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

High performance low cost digital controlled power conversion technology
01/10/2004 → 29/08/2008
Project: PhD

Fejltolerant Regulering med Anvendelser indenfor Rumfart
Ziegler, B. L., Blanke, M. & Niemann, H. H.
01/09/2002 → 30/09/2003
Project: PhD

Fejltolerante powersystemer
01/02/2001 → 27/07/2004
Project: PhD

Fundamental fault detection
Niemann, H. H., Saberi, A., Stoorvogel, A. & Peddapullaiah, S.
01/01/1999 → 31/12/2001
Project

Robust controller design
Niemann, H. H.
01/08/1997 → 31/07/1998
Project

Decentral H_inf design.
Niemann, H. H.
01/01/1997 → 31/12/1997
Project

Multivariable controller starting up.
Niemann, H. H.
01/01/1997 → ...
Project

Error Diagnosis in Dynamical Control Systems
Stoustrup, J. & Niemann, H. H.
01/01/1996 → 31/12/1997
Fault detection in dynamic systems
01/01/1996 → …

Loop Transfer Recovery
Stoustrup, J. & Niemann, H. H.
01/01/1996 → 31/12/1997

Multi Criterion Regulation
Stoustrup, J. & Niemann, H. H.
01/01/1996 → 31/12/1997

Yielding Capacities for Control Systems with Uncertain Parameters
Stoustrup, J. & Niemann, H. H.
01/01/1996 → 31/12/1997

Robust og optimal regulering af samplede systemer
Rank, M. L., Niemann, H. H., Parkum, J. E. & Stoustrup, J.
01/01/1995 → 21/02/1999

Udviklingskoncept for Robust og Optimal Regulatordimensionering
01/10/1994 → 21/01/1998

Design of observer based controllers
Niemann, H. H., Rank, M. L. & Stoustrup, J.
01/05/1994 → …

Project