Morten Lind - DTU Orbit (19/11/2018)
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Research outputs:

On-line Fault Diagnosis of Produced Water Treatment with Multilevel Flow Modeling
Research output: Research - peer-review › Journal article – Annual report year: 2018

A Water Treatment Case Study for Quantifying Model Performance with Multilevel Flow Modeling
Research output: Research - peer-review › Journal article – Annual report year: 2018

Extending MFM Function Ontology for Representing Separation and Conversion in Process Plant
Research output: Research - peer-review › Article in proceedings – Annual report year: 2018

Functional Modeling for Monitoring of Robotic System
Research output: Research - peer-review › Journal article – Annual report year: 2018

Management of System Complexity in HAZOP for the Oil &Gas Industry
Research output: Research - peer-review › Journal article – Annual report year: 2018

Identifying Causality from Alarm Observations
Research output: Research - peer-review › Paper – Annual report year: 2017

Modelling and Validating a Deoiling Hydrocyclone for Fault Diagnosis using Multilevel Flow Modeling
Research output: Research - peer-review › Paper – Annual report year: 2017

Reasoning about Cause-effect through Control Functions in Multilevel Flow Modelling
Research output: Research - peer-review › Article in proceedings – Annual report year: 2018

Representing Operational Modes for Situation Awareness
Research output: Research - peer-review › Conference article – Annual report year: 2017

Using MFM methodology to generate and define major accident scenarios for quantitative risk assessment studies
Research output: Research - peer-review › Article in proceedings – Annual report year: 2017

Electric vehicle fleet management in smart grids: A review of services, optimization and control aspects
Research output: Research - peer-review › Journal article – Annual report year: 2016

Multi-agent based modeling for electric vehicle integration in a distribution network operation
Research output: Research - peer-review › Journal article – Annual report year: 2016
Preventing Distribution Grid Congestion by Integrating Indirect Control in a Hierarchical Electric Vehicles Management System
Research output: Research - peer-review › Journal article – Annual report year: 2016

A multi-agent system for distribution grid congestion management with electric vehicles
Research output: Research - peer-review › Journal article – Annual report year: 2015

Assessing Operational Situations.
Research output: Research › Ph.D. thesis – Annual report year: 2015

Design of multilevel flow modelling-based decision support system by using multiagent platform
Research output: Research - peer-review › Journal article – Annual report year: 2015

Validation of a functional model for integration of safety into process system design
Research output: Research - peer-review › Article in proceedings – Annual report year: 2015

An integrated qualitative and quantitative modeling framework for computer-assisted HAZOP studies
Research output: Research - peer-review › Journal article – Annual report year: 2014

Applying Functional Modeling for Accident Management of Nuclear Power Plant
Research output: Research - peer-review › Article in proceedings – Annual report year: 2014

Control strategies for power distribution networks with electric vehicles integration.
Research output: Research › Ph.D. thesis – Annual report year: 2014

Coordinated Charging of Electric Vehicles for Congestion Prevention in the Distribution Grid
Research output: Research - peer-review › Journal article – Annual report year: 2013

Functional Modelling of Complex Systems
Research output: Research - peer-review › Book chapter – Annual report year: 2014

Functional Modelling for Fault Diagnosis and its application for NPP.
Research output: Research - peer-review › Journal article – Annual report year: 2014

Hazard Identification by extended multilevel flow modelling with function roles.
Research output: Research - peer-review › Journal article – Annual report year: 2014

Practical Application of the MFM Suite on a PWR System: Modelling and Reasoning on Causes and Consequences of Process Anomalies
Research output: Research - peer-review › Report – Annual report year: 2014

Representing Operational Knowledge of PWR Plant by Using Multilevel Flow Modelling
Research output: Research - peer-review › Article in proceedings – Annual report year: 2014

Research output: Research - peer-review › Journal article – Annual report year: 2014
Apply Functional Modelling to Consequence Analysis in Supervision Systems
Research output: Research - peer-review › Article in proceedings – Annual report year: 2013

Consequence Reasoning in Multilevel Flow Modelling
Research output: Research - peer-review › Article in proceedings – Annual report year: 2013

Hazard Identification of the Offshore Three-phase Separation Process Based on Multilevel Flow Modeling and HAZOP
Research output: Research - peer-review › Article in proceedings – Annual report year: 2013

Multilevel Coordination in Smart Grids for Congestion Management of Distribution Grid
Research output: Research - peer-review › Article in proceedings – Annual report year: 2013

Multilevel Flow Modeling Based Decision Support System and Its Task Organization
Research output: Research - peer-review › Book chapter – Annual report year: 2013

Optimization and control method for smart charging of EVs facilitated by Fleet operator: Review and classification
Research output: Research - peer-review › Journal article – Annual report year: 2013

Supervision functions - Secure operation of sustainable power systems
Research output: Research - peer-review › Article in proceedings – Annual report year: 2013

Addressing the security of a future sustainable power system: The Danish SOSPO project
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012

Agent Based Reasoning in Multilevel Flow Modeling
Research output: Research - peer-review › Article in proceedings – Annual report year: 2013

Configuration of Risk Monitor System by PLant Defense-In.Depth Monitor and Reliability Monitor
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012

Model-Based approaches to Human-Automation Systems Design
Research output: Research - peer-review › Article in proceedings – Annual report year: 2013

Modeling Operating Modes during Plant Life Cycle
Research output: Research › Sound/Visual production (digital) – Annual report year: 2012

Modeling Operating Modes during Plant Life Cycle
Research output: Research › Conference abstract in proceedings – Annual report year: 2012

Modeling Operating Modes for the Monju Nuclear Power Plant
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012

Modeling Operating Modes for the Monju Nuclear Power Plant
Research output: Research - peer-review › Journal article – Annual report year: 2013

Modeling Safety Barriers and Defense in Depth with Multilevel Flow Modeling
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012

Multilevel Flow Modeling for Nuclear Power Plant Diagnosis
Research output: Research - peer-review › Article in proceedings – Annual report year: 2011
A Functional HAZOP Methodology
Research output: Research - peer-review › Journal article – Annual report year: 2010

Agent Based Control of Electric Power Systems with Distributed Generation
Research output: Research › Ph.D. thesis – Annual report year: 2010

A Goal-Function Approach to Analysis of Control Situations
Research output: Research - peer-review › Article in proceedings – Annual report year: 2010

Knowledge representation for integrated plant operation and maintenance
Research output: Research - peer-review › Article in proceedings – Annual report year: 2011

Modeling Control Situations in Power System Operations
Research output: Research - peer-review › Article in proceedings – Annual report year: 2010

Multiagent based protection and control in decentralized electric power systems
Research output: Research - peer-review › Article in proceedings – Annual report year: 2010

Representing Causality and Reasoning about Controllability of Multi-level Flow-Systems
Research output: Research - peer-review › Article in proceedings – Annual report year: 2010

Requirement analysis for autonomous systems and intelligent agents in future Danish electric power systems
Research output: Research - peer-review › Journal article – Annual report year: 2010

System-Awareness for Agent-based Power System Control
Research output: Research › Article in proceedings – Annual report year: 2010

Agent Services for Situation Aware Control of Power Systems With Distributed Generation
Research output: Research - peer-review › Article in proceedings – Annual report year: 2009

A Goal Based HAZOP Assistant
Research output: Research - peer-review › Poster – Annual report year: 2009

A Goal Based HAZOP Assistant
Research output: Research - peer-review › Article in proceedings – Annual report year: 2009

Challenges to Cognitive Systems Engineering:Understanding Qualitative Aspects of Control Actions
Research output: Research - peer-review › Article in proceedings – Annual report year: 2009

Control architecture of power systems: Modeling of purpose and function
Research output: Research › Article in proceedings – Annual report year: 2009

Decomposing Objectives and Functions in Power System Operation and Control
Research output: Research - peer-review › Article in proceedings – Annual report year: 2009

Future Challenges of the Danish Power System: Results of Ecogrid.dk - Phase 1
Research output: Research › Article in proceedings – Annual report year: 2009

Reasoning about Control Situations in Power Systems
Research output: Research - peer-review › Article in proceedings – Annual report year: 2009
Towards a Danish power system with 50% wind: — Smart grids activities in Denmark
Research output: Research › Article in proceedings – Annual report year: 2009

A Goal Based Methodology for HAZOP Analysis
Research output: Research › Sound/Visual production (digital) – Annual report year: 2008

A Goal Based Methodology for HAZOP Analysis
Research output: Research › Article in proceedings – Annual report year: 2008

EcoGrid.dk Phase 1: WP 2 System architecture
Research output: Research › Report – Annual report year: 2008

Fundamental Principles of Alarm Design
Research output: Research › Sound/Visual production (digital) – Annual report year: 2008

Fundamental Principles of Alarm Design
Research output: Research › Article in proceedings – Annual report year: 2008

Future steps toward a Danish power system with 50% wind power
Research output: Research › Report – Annual report year: 2008

IMPLEMENTATION OF MULTIAGENT REINFORCEMENT LEARNING MECHANISM FOR OPTIMAL ISLANDING OPERATION OF DISTRIBUTION NETWORK
Research output: Research › Conference abstract in proceedings – Annual report year: 2008

Perspectives on multilevel flow modeling
Research output: Research › Article in proceedings – Annual report year: 2008

Functional HAZOP
Research output: Research › Sound/Visual production (digital) – Annual report year: 2007

Means-end based functional modeling for intelligent control: Modeling and experiments with an industrial heat pump
Research output: Research › Article in proceedings – Annual report year: 2007

The function of functional modelling in (bio-)chemical engineering
Research output: Research › Article in proceedings – Annual report year: 2007

The what, why and how of functional modeling
Research output: Research › Article in proceedings – Annual report year: 2007

A Functional approach to HAZOP studies
Research output: Research › Sound/Visual production (digital) – Annual report year: 2006

A Functional approach to HAZOP studies
Research output: Research › Article in proceedings – Annual report year: 2006

A systematic approach to HAZOP studies based on functional models
Research output: Research › Poster – Annual report year: 2006
Context-aware mobile interfaces for process automation
Research output: Research › Article in proceedings – Annual report year: 2006

Functional modelling assisted HAZOP studies
Research output: Research › Article in proceedings – Annual report year: 2006

Towards understanding the role and function of regulatory networks in microorganisms
Research output: Research › Book chapter – Annual report year: 2006

Design of Process Displays based on Risk Analysis Techniques
Research output: Research › Ph.D. thesis – Annual report year: 2005

Alarm reduction and root cause analysis for nuclear power plant control rooms
Research output: Research › Article in proceedings – Annual report year: 2005

Modeling Goals and Functions of Control and Safety Systems in (MFM
Research output: Research › Article in proceedings – Annual report year: 2005

Understanding role and function of regulatory networks in microorganisms
Research output: Research › Conference abstract in journal – Annual report year: 2005

Understanding role and function of regulatory networks in microorganisms
Research output: Research › Sound/Visual production (digital) – Annual report year: 2005

Activated sludge wastewater treatment plant modelling and simulation: state of the art
Research output: Research › Journal article – Annual report year: 2004

Description of composite actions - Towards a formalization of safety functions
Research output: Research › Report – Annual report year: 2004

Evaluering af grænseflader til klimastyring i svinestalde
Research output: Research › Report – Annual report year: 2004

Means and ends of control
Research output: Research › Article in proceedings – Annual report year: 2004

Making Sense of the Abstraction Hierarchy in the Power Plant Domain
Research output: Research › Journal article – Annual report year: 2003

Making Sense of the Abstractions Hierarchy in the Power Plant Domain
Research output: Research › Journal article – Annual report year: 2003

A review of barrier concepts
Research output: Research › Report – Annual report year: 2002

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

Semiotics and Intelligent Control
Research output: Research › Book chapter – Annual report year: 2002
Research output: Research › peer-review › Article in proceedings – Annual report year: 2001

Collision avoidance at sea - practice and problems
Research output: Research › peer-review › Article in proceedings – Annual report year: 2001

Proceedings of EAM 2001
Research output: Research › peer-review › Book – Annual report year: 2001

Semiotics and Intelligent Control
Research output: Research › peer-review › Article in proceedings – Annual report year: 2001

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

A Systematic Approach to Design of Process Displays
Research output: Research › Ph.D. thesis – Annual report year: 1999

Conceptual Design of Industrial Process Displays
Research output: Research › peer-review › Journal article – Annual report year: 1999

Plant Modeling for Human Supervisory Control
Research output: Research › peer-review › Journal article – Annual report year: 1999

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

Representing the Behaviours of Real-Time Systems: A Goal-Oriented Approach
Research output: Research › peer-review › Article in proceedings – Annual report year: 1998

The Emergence of Levels of Abstraction in Complex Systems
Research output: Research › peer-review › Journal article – Annual report year: 1997

Interpretation Problems in Modelling Complex Artifacts for Diagnosis
Research output: Research › peer-review › Article in proceedings – Annual report year: 1996

Status and Challenges of Intelligent Plant Control
Research output: Research › peer-review › Journal article – Annual report year: 1996

Towards Classification of Supervisory Control Goals
Research output: Research › peer-review › Report – Annual report year: 1996

Information Interfaces for Process Plant Diagnosis
Research output: Research › peer-review › Report – Annual report year: 1984

The GNP Testbed for Operator Support Evaluation
Research output: Research › peer-review › Report – Annual report year: 1984

Research output: Research › Report – Annual report year: 1983
Some Experiences in Application of the Multilevel Flow Modelling Method
Research output: Research › Article in proceedings – Annual report year: 1983

The GNP Testbed for Operator Support Evaluation
Research output: Research › Article in proceedings – Annual report year: 1983

A Model of Human Decision Making in Complex Systems and its Use for Design of System Control Strategies
Research output: Research › Article in proceedings – Annual report year: 1982

A Model of Human Decision Making in Complex Systems and its Use for Design of System Control Strategies
Research output: Research › Report – Annual report year: 1982

Generic Control Tasks in Process Plant Operation
Research output: Research › Article in proceedings – Annual report year: 1982

Multilevel Flow Modelling of Process Plant for Diagnosis and Control
Research output: Research › Report – Annual report year: 1982

Self-Reference as a Problem in the Control of Complex Systems
Research output: Research › Journal article – Annual report year: 1982

The use of flow models for design of plant operating procedures
Research output: Research › Report – Annual report year: 1982

Coping with complexity
Research output: Research › Report – Annual report year: 1981

The Use of Flow Models for Automated Plant Diagnosis
Research output: Research › peer-review › Book chapter – Annual report year: 1981

The use of mass and energy balances for observation in process plant diagnosis
Research output: Research › Report – Annual report year: 1980

Notes on Failure Analysis of Process Plants with Feedback Loops
Research output: Research › Article in proceedings – Annual report year: 1978

Analysis of the self-organizing properties of a stochastic controller
Research output: Research › Report – Annual report year: 1977

Investigation of a class of self-organizing control systems
Research output: Research › Report – Annual report year: 1976

Dynamics and control of a simplified once-through boiler
Research output: Research › Report – Annual report year: 1975

Elements of automata theory and the theory of markov chains
Research output: Research › Report – Annual report year: 1975

Projects:
An Analysis of Barrons Selv-organizing Controller
Project: PhD

Counteraction planning based on Multilevel Flow Modelling
Project: PhD

Detection and evaluation of abnormal events in complex industrial processes
Project: PhD

Functional Modeling of water treatment system
Project: PhD

Planlægning i procesanlæg
Project: PhD

Formulering af generiske MFM-modeller for skibssystemer med henblik på brug i diagnosesystemer
Project: PhD

Combining functional modeling and reasoning with on-line event analytics
Project: PhD

Maintenance Free and Sustainable High-Level Control in Cement and Mining Industry
Project: PhD

Fejlanalyse af proceskontrolsystemer
Project: PhD

Self-Organising Distributed Control of a Distributed Energy System with a High Penetration of Renewable Energy
Project: PhD

Task Oriented Display Design Based on Invariants and Physical Laws
Project: PhD

Investigation of System Protection Schemes for the Transmission Network in Eastern Denmark
Project: PhD

Udformning af procesdisplays
Project: PhD

Modelanvendelse i integreret design af transportsystemer
Project: PhD

Grafgrammatiker og grafiske editorer til modelbygning
Project: PhD

Graphical Control Environment (GRACE)
Project: PhD

Modular Supervisory Controller for Hybrid Power systems
Project: PhD
Object Based Large Scale Reuse in Industrial Systems Design  
Project: PhD

Intelligente og autonome produktionsystemer  
Project: PhD

Navigation  
Project: PhD

Real-Time 'Plant-Wide' Diagnosis  
Project: PhD

Handlingsstruktur i robot og proceskontrolsystemer  
Project: PhD

Menneske-maskine samarbejde i distribuerede automatiseringssystemer  
Project: PhD

Fault-tolerant Guidance for Precision Farming using 2D/3D Vision and Computer-Based Learning  
Project: PhD

Control Architecture for Future Power Systems  
Project: PhD

Agent Based Control of Electric Power Systems with Distributed Energy Resources  
Project: PhD

Network and control of future intelligent power system  
Project: PhD

Consequence Reasoning in Multilevel Flow Modeling and Its Application  
Project: PhD

Use of Multilevel Flow Modelling for on-line supervision in the oil and gas industry  
Project: Research

Secure Operation of Sustainable Power Systems  
Project: Research

Agentbaserede styringsstrukturer i elsystemer med betydelig decentral produktion : PSO-projekt  
Project: Research

PIPESCAN  
Project: Research

PowerLabDK : An Experimental Research Platform for Electric Power and Energy  
Project: Research

Robust Human Machine Interaction 'ROHMI'  
Project: Research
EcoGrid DK: 50% wind power in the Danish Electric Power System
Project: Research