Inferring human intentions from the brain data
Publication: Research › Ph.D. thesis – Annual report year: 2017

Secure Block Ciphers - Cryptanalysis and Design
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Computational Modeling of Medical Images of Brain Tumor Patients for Optimized Radiation Therapy Planning
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Cryptanalysis of Selected Block Ciphers
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Security Protocols: Specification, Verification, Implementation, and Composition
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Modeling Structural Brain Connectivity
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Analysis of Security Protocols in Embedded Systems

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Decomposition and classification of electroencephalography data

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Design of Cognitive Interfaces for Personal Informatics Feedback
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High Performance with Prescriptive Optimization and Debugging
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Influence of Maturation, Pathology and Functional Lateralization on 3D Sulcal Morphology using MRI
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Design and analysis of cryptographic algorithms
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Systems for Personalization of Hearing Instruments: A Machine Learning Approach
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An algebraic approach to graph codes
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Code Generation from Pragmatics Annotated Coloured Petri Nets
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Economic Model Predictive Control for Large-Scale and Distributed Energy Systems
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Algorithms and Data Structures for Strings, Points and Integers: or, Points about Strings and Strings about Points
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Mathematical modelling of membrane separation
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High-resolution imaging methods in array signal processing
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Compilation and Synthesis for Fault-Tolerant Digital Microfluidic Biochips
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Brain Network Modelling
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IEA Common Exercise 4: ARX, ARMAX and grey-box models for thermal performance characterization of the test box
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Assessing Miniaturized Sensor Performance using Supervised Learning, with Application to Drug and Explosive Detection
Publication: Research › Ph.D. thesis – Annual report year: 2013

Low-energy house in Sisimiut - Data overview
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Low-energy house in Sisimiut - Measurement equipment
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Models for the energy performance of low-energy houses
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Topology of streamlines and vorticity contours for two - dimensional flows
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Statistical aspects of fish stock assessment
Publication: Research › Ph.D. thesis – Annual report year: 2014

Adaptive Trailing Edge Flaps for Active Load Alleviation in a Smart Rotor Configuration
Bergami, L., Gaunaa, M., Poulsen, N. K. & Buhl, T. 2013 DTU Wind Energy. 308 p. (DTU Wind Energy PhD; No. 0020(EN)).
Publication: Research › Ph.D. thesis – Annual report year: 2013

Automated Image-Based Procedures for Adaptive Radiotherapy
Publication: Research › Ph.D. thesis – Annual report year: 2013

Analysis of the Indented Cylinder by the use of Computer Vision
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Nonlinear Model Predictive Control for Oil Reservoirs Management
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On Building Secure Communication Systems
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Stochastic Differential Equations in Artificial Pancreas Modelling
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Facial Analysis: Looking at Biometric Recognition and Genome-Wide Association
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The Improved Relevance Voxel Machine
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Large-scale Machine Learning in High-dimensional Datasets
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RF subsystem power consumption and induced radiation emulation
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List Decoding of Algebraic Codes
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Viscoelastic Modelling of Road Deflections for use with the Traffic Speed Deflectometer
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Quantitative assessment of course evaluations
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Modeling of Craniofacial Anatomy, Variation, and Growth
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Modeling and forecasting of wind power generation - Regime-switching approaches
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Optimization Under Uncertainty for Management of Renewables in Electricity Markets
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Modelling spread of Bluetongue and other vector borne diseases in Denmark and evaluation of intervention strategies

Modelling spread of Bluetongue in Denmark: The code.

Distributed security in closed distributed systems

Planning and Evaluation of Radio-Therapeutic Treatment of Head-and-Neck Cancer Using PET/CT scanning

Integration of top-down and bottom-up information for audio organization and retrieval

Forecasting and decision-making in electricity markets with focus on wind energy

Towards Cognizant Hearing Aids: Modeling of Content, Affect and Attention

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System-Level Modeling and Synthesis Techniques for Flow-Based Microfluidic Very Large Scale Integration Biochips
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Model Based Analysis of Ethnic Differences in Type 2 Diabetes
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Model Predictive Control of Wind Turbines
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Fyrstårnsprojekt IV 2010: Afsluttende rapport
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Integrating Design Decision Management with Model-based Software Development
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Efficient Unbiased Rendering using Enlightened Local Path Sampling
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Markerless 3D Head Tracking for Motion Correction in High Resolution PET Brain Imaging
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System Level Modelling and Performance Estimation of Embedded Systems
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Modeling media as latent semantics based on cognitive components
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On the time required for identification of visual objects
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Nonlinear Stochastic Modelling of Antimicrobial resistance in Bacterial Populations
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Support for Programming Models in Network-on-Chip-based Many-core Systems
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Longitudinal MRI studies of brain morphometry
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Programming Models and Tools for Intelligent Embedded Systems
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Modelling, Synthesis, and Configuration of Networks-on-Chips
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Computing an Ontological Semantics for a Natural Language Fragment

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Wind turbine control and model predictive control for uncertain systems

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Statistical Process Control in a Modern Production Environment

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Aspects with Program Analysis for Security Policies

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Enhancing Media Personalization by Extracting Similarity Knowledge from Metadata

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Computer Vision for Timber Harvesting

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Shape and Deformation Analysis of the Human Ear Canal

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Modeling the Biological Diversity of Pig Carcasses

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Data Assimilation in Marine Models

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On parameterized deformations and unsupervised learning

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The virtual knife
Predictive tools for designing new insulins and treatment regimens

Modelling Strategies for Functional Magnetic Resonance Imaging

Context based multimedia information retrieval

A Verifiable Language for Cryptographic Protocols

Structure Learning in Audio

Identification and Quantification of Uncertainties Related to Using Distributed X-band Radar Estimated Precipitation as input in Urban Drainage Models
Pedersen, L., Madsen, H. & Jensen, N. E. Aug 2009 Kgs. Lyngby, Denmark: Technical University of Denmark (DTU). (The PhD is an Industrial PhD and the work has been conducted in a cooperation between DHI Weather Radar Systems, (Chief Engineer, Niels Einar Jensen), and DTU Informatics, the Technical University of Denmark.).

Adaptive Text Entry for Mobile Devices

Single-channel source separation using non-negative matrix factorization

Cryptographic Hash Functions
Thomsen, S. S. & Knudsen, L. R. Feb 2009

Image Registration and Optimization in the Virtual Slaughterhouse

Agent Based Individual Traffic Guidance
Constraint Solver Techniques for Implementing Precise and Scalable Static Program Analysis
Publication: Research › Ph.D. thesis – Annual report year: 2009

Minimum Mean-Square Error Single-Channel Signal Estimation
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Detection of Weather Radar Clutter
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User Involvement in the Innovation process: In a mobile service and application development perspective
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Modelling Brain Tissue using Magnetic Resonance Imaging
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Monitoring angiogenesis using magnetic resonance methods
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Analysis of Craniofacial Images using Computational Atlases and Deformation Fields
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Mobile location services for the next generation wireless network
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Computational aspects of electronic transport in nanoscale devices
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Signal Processing for Improved Wireless Receiver Performance
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Specifying Geographic Information - Ontology, Knowledge Representation, and Formal Constraints
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Dynamics of European two-axle freight wagons
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Hemodynamic modelling of BOLD fMRI - A machine learning approach
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Three Dimensional Measurements in Medical Data
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Markovian Building Blocks for Individual-Based Modelling
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Application of Parameter Estimation for Diffusions and Mixture Models
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Algorithms for Source Separation - with Cocktail Party Applications
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Language Based Techniques for Systems Biology
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Decision Support System for Fighter Pilots
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Techno-Economics of Residential Broadband Deployment: Multimedia Services in Residential Broadband Networks
Publication: Research › Ph.D. thesis – Annual report year: 2007

Regularized Statistical Analysis of Anatomy
Sjöstrand, K., Larsen, R. & Hansen, L. K. Sep 2007 (IMM-PHD; No. 182).
Publication: Research › Ph.D. thesis – Annual report year: 2007

Language-based Security for VHDL
Tolstrup, T. K., Nielsen, H. R. & Nielsen, F. Apr 2007 (IMM-PHD; No. 174).
Publication: Research › Ph.D. thesis – Annual report year: 2007

Music Genre Classification Systems - A Computational Approach
Publication: Research › Ph.D. thesis – Annual report year: 2006

The MANGO clockless network-on-chip: Concepts and implementation
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Data assimilation on atmospheric dispersion of radioactive materials
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Independent Component Analysis in a convoluted world
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Tomographic reconstruction using anatomy and regularization
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In Silico ADME Classification of Chemical Drug Candidates
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Stabilization Algorithms for Large-Scale Problems
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Approaches to better context modeling and categorization
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Simulation-based Modeling Frameworks for Networked Multi-processor System-on-Chip
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Temporal Feature Integration for Music Organisation
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Pharmacokinetic/Pharmacodynamic modelling with a stochastic perspective. Insulin secretion and Interleukin-21 development as case studies
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Source Separation for Hearing Aid Applications
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Mean Field ICA
Publication: Research › Ph.D. thesis – Annual report year: 2006

Risk Assessments of Minefields in Humanitarian Mine Action - a Bayesian Approach
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Development of an image based system to objectively score the severity of phoriasis
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A Level Set Discontinuous Galerkin Method for Free Surface Flows - and Water-Wave Modeling
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Flow logic for language-based safety and security
Publication: Research › Ph.D. thesis – Annual report year: 2005

Indexing and Analysis of Fungal Phenotypes Using Morphology and Spectrometry
Publication: Research › Ph.D. thesis – Annual report year: 2005

Making Faces - State-Space Models Applied to Multi-Modal Signal Processing
Publication: Research › Ph.D. thesis – Annual report year: 2005
Design and analysis of environmental monitoring programs
Lophaven, S. N. & Carstensen, N. J. Feb 2005
Publication: Research › Ph.D. thesis – Annual report year: 2005

Behavioral synthesis of asynchronous circuits
Publication: Research › Ph.D. thesis – Annual report year: 2005

Distributed nonlinear optical response
Publication: Research › Ph.D. thesis – Annual report year: 2005

Maintenance of Digital Topographical Map Databases
Publication: Research › Ph.D. thesis – Annual report year: 2005

Automated Analysis of Security in Networking Systems
Publication: Research › Ph.D. thesis – Annual report year: 2004

Methods for Measurement and Analysis of Craniofacial Morphology and Growth in Children with Cleft Lip and Palate
Publication: Research › Ph.D. thesis – Annual report year: 2004

Real-time Global Illumination by Simulating Photon Mapping
Publication: Research › Ph.D. thesis – Annual report year: 2004

Analysis and Synthesis of Communication-Intensive Heterogeneous Real-Time Systems
Pop, P. 2003 (Linköping Studies in Science and Technology; No. 833).
Publication: Research › Ph.D. thesis – Annual report year: 2003

Manipulation of volumetric solids with applications to sculpting
Publication: Research › Ph.D. thesis – Annual report year: 2002

Stochastic Modelling of Energy Systems
Publication: Research › Ph.D. thesis – Annual report year: 2001

Scientific discovery using genetic programming
Publication: Research › Ph.D. thesis – Annual report year: 2001

Numerical simulation of turbulent airflow in livestock buildings
Publication: Research › Ph.D. thesis – Annual report year: 2000

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Publication: Research › Ph.D. thesis – Annual report year: 1999

Numerical Solution of Differential Algebraic Equations: A PhD course
Thomsen, P. G. & Bendtsen, C. 1999 103 p.
Publication: Research - peer-review › Report – Annual report year: 1999

Statistical analysis of biotests - Applied to complex polluted samples
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Computer Aided Mathematics
Sinclair, R. 1998
Publication: Research - peer-review › Book – Annual report year: 1998

Robust Performance And Dissipation of Stochastic Control Systems
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Modelling colliding-pulse mode-locked semiconductor lasers
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