Bryghuset - Svendborg Demensby
Period: 2 Feb 2018
Anders Stockmarr (Guest lecturer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis
Documents:
Bryghuset - Svendborg Demensby

Related event
Robotter på Tværs: Workshop om robotter, Innovationsfonden
02/02/2018 → 02/02/2018
Odense, Denmark
Activity: Talks and presentations › Conference presentations

PACE – Proactive Care for Elderly People with Dementia
Period: 2 Feb 2018
Anders Stockmarr (Guest lecturer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis
Documents:
Præsentation PACE 02022018

Related event
Robotter på Tværs: Workshop om robotter, Innovationsfonden
02/02/2018 → 02/02/2018
Odense, Denmark
Activity: Talks and presentations › Conference presentations

IEEE Transactions on Image Processing (Journal)
Period: 26 Jan 2018
Tommi Olavi Brander (Reviewer)
Department of Applied Mathematics and Computer Science
Scientific Computing

Related journal
IEEE Transactions on Image Processing
1057-7149
Central database
Activity: Research › Peer review of manuscripts

Innovationsfondens Prisuddeling 2018
Period: 26 Jan 2018
Anders Stockmarr (Organizer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Description
invited participation
Links:
Related event

Innovationsfondens Prisuddeling 2018
26/01/2018 → 26/01/2018
Copenhagen, Denmark
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Hybrid data tomography
Period: 22 Jan 2018 → 26 Jan 2018
Tommi Olavi Brander (Organizer)
Kim Knudsen (Organizer)
Bjørn Christian Skov Jensen (Organizer)
Ekaterina Sherina (Organizer)
Department of Applied Mathematics and Computer Science
Scientific Computing

Related event

Hybrid data tomography
22/01/2018 → 26/01/2018
Kongens Lyngby, Denmark
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Boundary determination with interior data
Period: 4 Jan 2018
Tommi Olavi Brander (Speaker)
Department of Applied Mathematics and Computer Science
Scientific Computing
Degree of recognition: International

Related event

Finnish mathematical days 2018: Joint EMS-FMS-ESMTB Mathematical Weekend
04/01/2018 → 05/01/2018
Joensuu, Finland
Activity: Talks and presentations › Conference presentations

Statistical Genetics (02938)
Period: 2 Jan 2018 → 29 Jan 2018
Anders Stockmarr (Other)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis
Description
phd course
Degree of recognition: Local
Activity: Other

Statistical Genetics (02950)
Period: 2 Jan 2018 → 15 Jan 2018
Anders Stockmarr (Other)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis
Description
phd course
Degree of recognition: Local
Activity: Other

Chaotic Mean Field Dynamics in Two Populations of Phase Oscillators with Heterogeneous Phase-Lag
Period: 2017
Erik Andreas Martens (Speaker)
Department of Applied Mathematics and Computer Science
Dynamical Systems

Description
Talk
Degree of recognition: International

Related event
SIAM Conference on Applications of Dynamical Systems 2017
21/05/2017 → 26/05/2017
Snowbird, United States
Activity: Talks and presentations › Conference presentations

Chimera states - mythological monsters from math arise in the real world
Period: 2017
Erik Andreas Martens (Speaker)
Department of Applied Mathematics and Computer Science
Dynamical Systems
Department of Electrical Engineering

Description
Invited topical lecture
Degree of recognition: International

Related event
ICMS Complexity Science Winter School 2017
13/02/2017 → 17/02/2017
Eindhoven, Netherlands
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

Inverse Problems and Imaging (Journal)
Period: 2017
Tommi Olavi Brander (Reviewer)
Department of Applied Mathematics and Computer Science
Scientific Computing

Related journal
Inverse Problems and Imaging
1930-8337
Central database
Activity: Research › Peer review of manuscripts

Robotics and Computer-Integrated Manufacturing (Journal)
Period: 2017
Alessandro Stolfi (Reviewer)
Department of Applied Mathematics and Computer Science
Department of Mechanical Engineering
Manufacturing Engineering

Related journal

Robotics and Computer-Integrated Manufacturing
0736-5845
Central database
Activity: Research › Peer review of manuscripts

Mathematical modeling of neurons: Perspectives for the treatment of epilepsy
Period: 13 Dec 2017
Dimitri Boiroux (Guest lecturer)
Department of Applied Mathematics and Computer Science
Scientific Computing

Related external organisation

University of Rostock
Germany
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

Implementation of enclosure method for p-Laplacian
Period: 12 Dec 2017
Tommi Olavi Brander (Speaker)
Department of Applied Mathematics and Computer Science
Scientific Computing
Degree of recognition: International

Related event

Inverse days
12/12/2017 → 14/12/2017
Oulu, Finland
Activity: Talks and presentations › Conference presentations

Controlling Chimeras
Period: 1 Dec 2017
Erik Andreas Martens (Guest lecturer)
Department of Applied Mathematics and Computer Science
Dynamical Systems

Description
Invited Talk
Degree of recognition: International

Related external organisation

Berlin Center for Studies of Complex Chemical Systems (BCSCCS), Technische Universität Berlin
Berlin, Germany
Activity: Talks and presentations › Conference presentations

Speed of evolution in spatially extended habitats
Period: Nov 2017
Erik Andreas Martens (Guest lecturer)
Department of Applied Mathematics and Computer Science
Dynamical Systems
Degree of recognition: International

Related event

Workshop: Future Trends in Mathematical Biology: In vitro, in vivo, and in silico,
22/11/2017 → 23/11/2017
Kgs. Lyngby, Denmark
Activity: Talks and presentations › Conference presentations

Frank Huess Hedlund (Guest lecturer)
Department of Applied Mathematics and Computer Science
Dynamical Systems
Statistics and Data Analysis

Description
What is blocking good accident investigation, learning and prevention of occupational accidents
Degree of recognition: National
Documents:
Workshop 411 - Frank Hedlund, Hvad spærre opklaring

Related event

Arbejdsmiljøkonferencen AM:2017
27/11/2017 → 28/11/2017
Nyborg, Denmark
Activity: Talks and presentations › Conference presentations

learnT DTU Conference 2017 - The 2nd Conference on Digital Learning Technology
Period: 17 Nov 2017
Charlotte Lærke Weitze (Organizer)
Helle Rootzén (Organizer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis
Degree of recognition: National

Related event

learnT DTU Conference 2017 - The 2nd Conference on Digital Learning Technology
17/11/2017 → ...
2800 Kgs. Lyngby, Denmark
Activity: Attending an event › Participating in or organising a conference

‘The student as a game designer – What professional learning can students achieve when designing digital learning games?’
Period: 17 Nov 2017
Charlotte Lærke Weitze (Guest lecturer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis
Degree of recognition: Local

Related event
Workshop: Create a concept for a learning game in one hour
Period: 17 Nov 2017
Charlotte Lærke Weitze (Guest lecturer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis
Degree of recognition: National

Related event

Proof Assistants and Related Tools - The PART & PART 2 Projects 2017
Period: 9 Nov 2017
Anders Schlichtkrull (Participant)
Department of Applied Mathematics and Computer Science
Algorithms and Logic

Description
IsaFoL - Isabelle Formalization of Logic - A Brief Overview
Talk "IsaFoL - Isabelle Formalization of Logic - A Brief Overview"

Related event

DeepLoc: Prediction of protein subcellular localization using deep learning
Period: 3 Nov 2017
Henrik Nielsen (Guest lecturer)
Jose Juan Almagro Armenteros (Guest lecturer)
Department of Bio and Health Informatics
Disease Intelligence and Molecular Evolution
Department of Applied Mathematics and Computer Science

Related external organisation
Intomics A/S
Denmark
Activity: Talks and presentations › Conference presentations

TCS and PAM seminar
Period: 3 Nov 2017
Anders Schlichtkrull (Participant)
Department of Applied Mathematics and Computer Science
Algorithms and Logic

Description
Formalization of an Ordered Resolution Prover in Isabelle/HOL

Abstract:
This is joint work with Jasmin Christian Blanchette, Dmitriy Traytel and Uwe Waldmann. We present a formalization of the first half of Bachmair and Ganzinger's chapter on resolution theorem proving in Isabelle/HOL, culminating with a refutationally complete first-order prover based on ordered resolution with literal selection. We develop general infrastructure and methodology that can form the basis of completeness proofs for related calculi (e.g., superposition). Our work clarifies several fine points in the chapter's text, emphasizing the value of formal proofs in the field of automated reasoning.

Talk at the TCS and PAM seminar of the Theoretical Computer Science group at the Vrije Universiteit Amsterdam.

Related event

TCS and PAM seminar
03/11/2017 → …
Amsterdam, Netherlands
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Security at chemical facilities – overview of different regulatory approaches taken in EU Member States
Period: 2 Nov 2017
Frank Huess Hedlund (Speaker)
Department of Applied Mathematics and Computer Science
Dynamical Systems
Statistics and Data Analysis

Description
It is a European Union policy goal to enhance high-risk chemical facility security. This presentation presents some results of a study carried out for the European Commission, DG Home Affairs. The study aimed to provide an overview of existing provisions and measures that help to enhance security at chemical facilities. These provisions and measures may for instance have their background in safety legislation or non-regulatory initiatives implemented by industry or in specific legislative provisions targeting security aspects implemented by individual Member States.

This presentation briefly reviews: 1) the concept of a high-risk chemical facility; 2) the analytical framework developed to identify security elements relevant for a chemical facility; and 3) possible synergies, the extent to which safety measures can be expected also to improve security. The study found that Member States have taken three distinct regulatory approaches: 1) folding security into Seveso safety legislation; 2) enlarging the scope of existing national security provisions; and 3) encouraging partnerships with industry associations to promote voluntary initiatives such as the security addendum to the Responsible Care programme.

Denmark has recently taken the first approach, adding security to Seveso (III) safety reporting. The presentation briefly reviews some of the resulting challenges.

Degree of recognition: International
Documents:
SRA Nordic Chapter 2017

Related event

02/11/2017 → 03/11/2017
Espoo, Finland
Activity: Talks and presentations › Conference presentations

GEOMETRICAL CHARACTERISATION OF INDIVIDUAL FIBRES FROM X-RAY TOMOGRAMS
Period: 27 Oct 2017
Monica Jane Emerson (Speaker)
Department of Applied Mathematics and Computer Science
Image Analysis & Computer Graphics
Description
Numerous modelling possibilities are opened up by an advanced image analysis pipeline that can accurately extract individual fibres from X-ray tomograms
Degree of recognition: International

Related event
30th Nordic Seminar on Computational Mechanics (NSCM-30)
25/10/2017 → 27/10/2017
Copenhagen
Activity: Talks and presentations › Conference presentations

Reflective, Creative and Computational Thinking Strategies Used When Students Learn Through Making Games
Period: 5 Oct 2017
Charlotte Lærke Weitze (Guest lecturer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis
Degree of recognition: International

Related event
ECGBL 2017: 11th European Conference on Games Based Learning, ACPI. FH JOANNEUM University of Applied Science, Graz, Austria, 5-6 October 2017
05/10/2017 → 06/10/2017
Graz, Austria
Activity: Talks and presentations › Conference presentations

Aalto University
Period: 25 Sep 2017
Tommi Olavi Brander (Visiting researcher)
Department of Applied Mathematics and Computer Science
Scientific Computing

Description
Research collaboration with Antti Hannukainen and Nuutti Hyvönen.
Degree of recognition: International
Activity: Visiting an external institution › Visiting another research institution

Inferring feeding in Southern bluefin tuna from visceral temperature data using a mechanistic model of digestion
Period: 22 Sep 2017 → 27 Sep 2017
Uffe Høgsbro Thygesen (Guest lecturer)
Department of Applied Mathematics and Computer Science
Dynamical Systems
Degree of recognition: International

Related event
Biologging Symposium 2017
25/09/2017 → 29/09/2017
Konstanz, Germany
Activity: Talks and presentations › Conference presentations

Active-subspace analysis of speckle-based particle measurements
Period: 20 Sep 2017
Mirza Karamehmedovic (Guest lecturer)
Department of Applied Mathematics and Computer Science
Scientific Computing
Degree of recognition: International

Related event
Inverse Problems from Theory to Application
19/09/2017 → 21/09/2017
Cambridge, United Kingdom
Activity: Talks and presentations › Conference presentations

ECSO 2017
Period: 20 Sep 2017 → 22 Sep 2017
Ignacio Blanco (Guest lecturer)
Daniela Guericke (Other)
Department of Applied Mathematics and Computer Science
Dynamical Systems
Description
European Conference on Stochastic Optimization
Links:
http://ecso2017.inf.uniroma3.it/

Related external organisation
Universita Roma Tre
Italy
Activity: Talks and presentations › Conference presentations

Kroniske Sygdomme i Hovedstadsregionen – Borgerklynger, Storforbrugere og Socioøkonomiske Effekter
Period: 14 Sep 2017
Anders Stockmarr (Invited speaker)
Anne Frølich (Other)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis
Degree of recognition: Local

Related event
Tredie workshop for forsker-og udviklernetværk om multisygdom i Region Hovedstaden
14/09/2017 → 14/09/2017
København, Denmark
Activity: Talks and presentations › Talks and presentations in private or public companies and organisations

Formal Methods for Software Development
Period: 11 Sep 2017 → 14 Sep 2017
Anne Elisabeth Haxthausen (Guest lecturer)
Department of Applied Mathematics and Computer Science
Software Engineering
Description
A PhD course.

Related external organisation
University of Florence
Italy
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities
International Workshop on Business Process Intelligence  
Period: 10 Sep 2017 → 11 Sep 2017  
Andrea Burattin (Organizer)  
Department of Applied Mathematics and Computer Science  
Software Engineering  
Degree of recognition: International  

Related event  
International Workshop on Business Process Intelligence  
10/09/2017 → 11/09/2017  
Barcelona, Spain  
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

PACE – Proactive Care for Elderly People with Dementia  
Period: 7 Sep 2017  
Anders Stockmarr (Guest lecturer)  
Department of Applied Mathematics and Computer Science  
Statistics and Data Analysis  

Related event  
Hillerød city council: comittee meeting  
07/09/2017 → 07/09/2017  
Hillerød, Denmark  
Activity: Talks and presentations › Talks and presentations in private or public companies and organisations

Proof Assistants and Related Tools - The PART & PART 2 Projects 2017  
Period: 7 Sep 2017  
Anders Schlichtkrull (Participant)  
Department of Applied Mathematics and Computer Science  
Algorithms and Logic  

Description  
Anders Schlichtkrull (joint work with Jasmin Christian Blanchette, Dmitriy Traytel and Uwe Waldmann): Formalization of an Ordered Resolution Prover in Isabelle/HOL  

Talk “Formalization of an Ordered Resolution Prover in Isabelle/HOL” at PART  

Related event  
Proof Assistants and Related Tools - The PART & PART 2 Projects 2017  
07/09/2017 → …  
Kgs. Lyngby, Denmark  
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Statistical Genetics (02586)  
Period: 4 Sep 2017 → 9 Dec 2017  
Anders Stockmarr (Other)  
Department of Applied Mathematics and Computer Science  
Statistics and Data Analysis  

Description  
course at master level  
Degree of recognition: Local  
Activity: Other
Sync patterns in phase oscillator in community network structure
Period: Aug 2017
Erik Andreas Martens (Guest lecturer)
Department of Applied Mathematics and Computer Science
Dynamical Systems

Description
Invited Lecture, Advanced Study Group "From Microscopic to Collective Dynamics in Neural Circuits"
Degree of recognition: International

Related external organisation
Max-Planck-Institute for the Physics of Complex Systems
Germany
Activity: Talks and presentations › Conference presentations

University of Florence
Period: 15 Aug 2017 → 14 Sep 2017
Anne Elisabeth Haxthausen (Visiting researcher)
Department of Applied Mathematics and Computer Science
Software Engineering

Description
Guest professor
Activity: Visiting an external institution › Visiting another research institution

IFORS 2017
Period: 17 Jul 2017 → 21 Jul 2017
Ignacio Blanco (Speaker)
Daniela Guericke (Other)
Department of Applied Mathematics and Computer Science
Dynamical Systems
Degree of recognition: International

Related event
IFORS 2017: 21st Conference of the International Federation of Operations and Research
17/07/2017 → 21/07/2017
Québec City, Canada
Activity: Talks and presentations › Conference presentations

On multivariate Wilson bases
Period: 6 Jul 2017
Jakob Lemvig (Invited speaker)
Department of Applied Mathematics and Computer Science
Mathematics

Description
Invited talk at the 12th International conference on Sampling Theory and Applications in Tallinn, Estonia.
Degree of recognition: International

Related event
2017 International Conference on Sampling Theory and Applications
03/07/2017 → 07/07/2017
Tallinn, Estonia
**Decision-making for integrated energy systems**
Period: 1 Jul 2017
Daniela Guericke (Invited speaker)
Department of Applied Mathematics and Computer Science
Dynamical Systems
Centre for IT-Intelligent Energy Systems in Cities

**Description**
Presentation at 10th DS&OR Forum

**Related external organisation**
University of Paderborn
Germany

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**Symposium on Geometry Processing 2017**
Period: 1 Jul 2017 → 5 Jul 2017
Jakob Andreas Bærentzen (Organizer)
Department of Applied Mathematics and Computer Science
Image Analysis & Computer Graphics

**Description**
Papers co-chair
Degree of recognition: International

**Related event**
Symposium on Geometry Processing 2017
01/07/2017 → 05/07/2017
London, United Kingdom

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**Konstantin Klemm**
Start date: Jun 2017 → Aug 2017
Erik Andreas Martens (Host)
Department of Applied Mathematics and Computer Science
Dynamical Systems
Department of Electrical Engineering
Degree of recognition: International
Activity: Hosting a guest lecturer

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**New approach for validating the segmentation of 3D data applied to individual fibre extraction**
Period: 30 Jun 2017
Monica Jane Emerson (Speaker)
Department of Applied Mathematics and Computer Science
Image Analysis & Computer Graphics

**Documents:**
ICTMS2017_300617_monj presentation

**Links:**
https://www.dropbox.com/s/eq5528lplxomjqi/20170630_105434.mp4?dl=0 (Recorded talk)

**Related event**
Statistical modelling of space-time processes with application to wind power
Period: 16 Jun 2017
Anders Stockmarr (Internal examiner)
Thordis Thorarinsdottir (External examiner)
Robin Girard (External examiner)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis
Description
Chairman of Phd defense
Degree of recognition: Local
Documents:
Announcement PhD defence Amanda Lenzi
Popular Science Summary Amanda Lenzi
Activity: Examinations and supervision › Internal examination

A Stochastic Method to Manage Delay and Missing Values for In-Situ Sensors in an Alternating Activated Sludge Process
Period: 13 Jun 2017
Peter Alexander Stentoft (Speaker)
Jan Kloppenborg Møller (Other)
Henrik Madsen (Other)
Peter Steen Mikkelsen (Other)
Thomas Munk-Nielsen (Other)
Department of Applied Mathematics and Computer Science
Dynamical Systems
Department of Environmental Engineering
Urban Water Systems
Description
Oral Presentation
Degree of recognition: International
Related event
12th IWA Specialized Conference on Instrumentation, Control and Automation
11/06/2017 → 14/06/2017
Quebec, Canada
Activity: Talks and presentations › Conference presentations

Integration of Nanopillar SERS Substrates in a Microfluidic Platform for Analyte Separation and Quantitative Sensing
Period: 11 Jun 2017 → 17 Jun 2017
Onur Durucan (Guest lecturer)
Lidia Morelli (Guest lecturer)
Kaiyu Wu (Guest lecturer)
Marlitt Viehrig (Guest lecturer)
Oleksii Ilchenko (Guest lecturer)
Kinga Zor (Guest lecturer)
Marco Matteucci (Guest lecturer)
Tommy Sonne Alstrøm (Guest lecturer)
Tomas Rindzevicius (Guest lecturer)
Michael Stenbæk Schmidt (Guest lecturer)
Anja Boisen (Guest lecturer)

Department of Micro- and Nanotechnology
Nanoprobes
Center for Intelligent Drug Delivery and Sensing Using Microcontainers and Nanomechanics
Department of Applied Mathematics and Computer Science
Cognitive Systems

Related event

9th International Conference on Advanced Vibrational Spectroscopy
11/06/2017 → 17/06/2017
Victoria, Canada
Activity: Talks and presentations › Conference presentations

Introduction to Applied Statistics with R for PhD Students
Period: 9 Jun 2017 → 30 Jun 2017
Anders Stockmarr (Lecturer)
Bjarne Kjær Erbsøl (Lecturer)
Elisabeth Wreford Andersen (Guest lecturer)
Murat Kulahci (Lecturer)
Andreas Baum (Lecturer)
Camilla Thyregod (Other)
Jesper Fink Andersen (Other)

Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Related organisation

Introduction to Applied Statistics with R for PhD Students
Stockmarr, A. (Lecturer), Erbsøl, B. K. (Lecturer), Andersen, E. W. (Guest lecturer), Kulahci, M. (Lecturer), Baum, A. (Lecturer), Thyregod, C. (Other), Andersen, J. F. (Other)
9 Jun 2017 → 30 Jun 2017
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

Dynamics Days Europe 2017
Period: 5 Jun 2017
Erik Andreas Martens (Speaker)

Department of Applied Mathematics and Computer Science
Dynamical Systems

Department of Electrical Engineering

Description
Organization of minisymposium "Complex patterns on networks"
Degree of recognition: International

Related event

Dynamics Days Europe 2017
05/06/2017 → …
Szeged, Hungary
Activity: Talks and presentations › Conference presentations

Bounds on the stably recoverable information for the Helmholtz equation in \( \mathbb{R}^2 \)
Period: 2 Jun 2017
Mirza Karamehmedovic (Guest lecturer)
Department of Applied Mathematics and Computer Science
Scientific Computing
Degree of recognition: International
Documents:
AIP_Abstract

Related event
Applied Inverse Problems
29/05/2017 → 02/06/2017
Hangzhou, China
Activity: Talks and presentations › Conference presentations

DSWeb Magazine - The Dynamical Systems Web (Journal)
Period: May 2017
Erik Andreas Martens (Reviewer)
Department of Applied Mathematics and Computer Science
Dynamical Systems
Description
https://dsweb.siam.org/
Degree of recognition: International

Related journal
DSWeb Magazine - The Dynamical Systems Web
Local database
Activity: Communication › Journal editor

Green Light for Smarter Methods in Railway Safety Verification
Period: 31 May 2017
Anne Elisabeth Haxthausen (Guest lecturer)
Department of Applied Mathematics and Computer Science
Software Engineering
Description
Invited pitch talk

Related event
Transport Summer Summit DTU 2017: Challenges, research and new developments within transportation, mobility and sustainability
31/05/2017 → 31/05/2017
Lyngby, Denmark
Activity: Talks and presentations › Conference presentations

Decision-making under uncertainty for energy companies in smart cities
Period: 30 May 2017
Daniela Guericke (Speaker)
Ignacio Blanco (Other)
Department of Applied Mathematics and Computer Science
Dynamical Systems
Centre for IT-Intelligent Energy Systems in Cities
Links:
Canards in Stiction: On Solutions of a Friction Oscillator by Regularization

**Period:** 22 May 2017

Elena Bossolini (Speaker)

Department of Applied Mathematics and Computer Science

**Mathematics**

**Description**

We consider the problem of the friction oscillator using the stiction model of friction. This friction law has a discontinuity between the dynamic and the static regime. The discontinuity set has a sticking region in which the forward solution is non-unique. In particular, there are special points along these segments where the solution is tangent to the boundary of the discontinuity set. In order to resolve this uncertainty, we introduce a regularization of the vector field and we obtain a multiple-time scale problem. Here the special points of the piecewise-smooth problem become folded saddles and a canard solution appears. We study the interaction of periodic orbits with the canard and we find that the the regularized problem has solutions that do not appear in the original problem.

**Degree of recognition:** International

**Links:**

http://meetings.siam.org/sess/dsp_programsess.cfm?SESSIONCODE=61861 (Minisymposium description)

### Related event

**SIAM Conference on Applications of Dynamical Systems 2017**

**Period:** 22 May 2017

Morten Brøns (Participant)

Kristian Uldall Kristiansen (Participant)

Alan R. Champneys (Chairman)

**Introduction to R**

**Period:** 22 May 2017

Anders Stockmarr (Speaker)

Department of Applied Mathematics and Computer Science

Statistics and Data Analysis

Department of Management Engineering

**Description**

Invited seminar talk

**Degree of recognition:** Local

**Documents:**

Intro R DTU Management Engineering

Intro R DTU Management Engineering

**Related organisation**

**Introduction to R**

Stockmarr, A. (Speaker)

22 May 2017

Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

**SIAM Conference on Applications of Dynamical Systems 2017**

**Period:** 22 May 2017

Morten Brøns (Participant)

Kristian Uldall Kristiansen (Participant)

Alan R. Champneys (Chairman)
We consider the problem of the friction oscillator using the stiction model of friction. This friction law has a discontinuity between the dynamic and the static regime. The discontinuity set has a sticking region in which the forward solution is non-unique. In particular, there are special points along these segments where the solution is tangent to the boundary of the discontinuity set. In order to resolve this uncertainty, we introduce a regularization of the vector field and we obtain a multiple-time scale problem. Here the special points of the piecewise-smooth problem become folded saddles and a canard solution appears. We study the interaction of periodic orbits with the canard and we find that the the regularized problem has solutions that do not appear in the original problem.

Degree of recognition: International

Links:
http://meetings.siam.org/sess/dsp_programsess.cfm?SESSIONCODE=61861 (Minisymposium description)

Related event

SIAM Conference on Applications of Dynamical Systems 2017
21/05/2017 → 26/05/2017
Snowbird, United States
Activity: Attending an event › Participating in or organising a conference

Applying LCA in decision making- the need and the future perspective
Period: 10 May 2017
Yan Dong (Speaker)
Simona Miraglia (Other)
Stefano Manzo (Other)
Stylianos Georgiadiis (Other)
Hjalte Jomo Danielsen Sarup (Other)
Elena Boriani (Other)
Tine Hald (Other)
Sebastian Thöns (Other)
Michael Zwicky Hauschild (Other)

Department of Management Engineering
Quantitative Sustainability Assessment
Centre for oil and gas – DTU
Transport DTU
Transport Modelling
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis
Department of Environmental Engineering
Urban Water Systems
National Food Institute
Research Group for Genomic Epidemiology
Department of Civil Engineering
Section for Structural Engineering

Documents:
Abstra

Links:
https://brussels.setac.org/welcome/
Description

There is nowadays a need of including sustainable considerations in the policy and decision making. Sound decision making requires evidence-based support, i.e. decision analysis to help decision makers in identifying the best alternative based on the associated impacts. Decision analysis includes four steps: 1) structure decision problem; 2) assess possible impacts associated with alternatives; 3) determine stakeholder preferences and 4) evaluate alternatives. Decision analysis can be performed applying different tools, such as cost-benefit analysis (CBA), risk assessment, and life cycle assessment (LCA).

LCA is a decision analysis tool that focuses on environmental impacts. One limit is that LCA is based on defined impact
categories and therefore does not provide information for those impacts and consequences out of the LCA scope. However, the LCA framework closely follows the decision analysis scheme and has the potential to be integrated with other decision analysis tools to enhance their assessment of environmental impacts.

To understand why LCA is needed in the policy decision context, we looked into the decision support for policy in several disciplines. Taking sustainable transport policy as an example, the traditional decision analysis tool for choosing the best alternative is CBA. CBA mainly analyses socio-economic impacts, such as travel time savings and costs, while only some environmental impacts are considered; i.e. the damage costs of greenhouse gas emissions, particulate matters, SOx, NOx and noise. Therefore, current transport policy making rarely reflect a full environmental profile of the suggested alternatives. Making decisions based on incomplete information may lead to sub-optimal solutions, especially where the environment is a major concern. There is a growing attention of conducting LCA in transport. Some identified environmental hotspots, such as consumer and household behavior, which may be the focus for future policies. Others assess the environmental impacts associated with building infrastructures and vehicle use. These studies verify that LCA can successfully quantify the environmental profile of alternatives in transport policy, if the relevant physical changes, e.g. vehicle travel distance and new infrastructures, are well-defined. However, before integrating LCA with other decision analysis methods for decision support, the study system, objectives, scopes, evaluation metrics and uncertainty handling need to be aligned.

Degree of recognition: International
Links:
https://brussels.setac.org/

Related event

SETAC Europe: 27th Annual Meeting – Environmental Quality Through Transdisciplinary Collaboration
07/05/2017 → 13/07/2017
Brussels, Belgium
Activity: Talks and presentations › Conference presentations

Quantitative Measure of Optic Disc Drusen Location in Enhanced Depth Imaging Optical Coherence Tomography Scans
Period: 5 May 2017
Anne-Sofie Wessel Lindberg (Guest lecturer)
Department of Applied Mathematics and Computer Science
Image Analysis & Computer Graphics
Statistics and Data Analysis
Degree of recognition: International
Documents:
Final_poster_Arvo

Related event

Association for research in vision and ophthalmology
05/05/2017 → 11/05/2017
Baltimore, United States
Activity: Talks and presentations › Conference presentations

Computer Graphics Forum (Journal)
Period: 1 May 2017 → 1 May 2020
Jakob Andreas Bærentzen (Reviewer)
Department of Applied Mathematics and Computer Science
Image Analysis & Computer Graphics

Description
Associate Editor
Degree of recognition: International

Related journal

Computer Graphics Forum
0167-7055
Central database
Chimera states—mythological monsters from maths arise in the real world
Period: Apr 2017
Erik Andreas Martens (Guest lecturer)
Department of Applied Mathematics and Computer Science
Dynamical Systems

Description
Invited Lecture
Degree of recognition: International

Related external organisation
Institute for Cross-Disciplinary Physics and Complex Systems (IFISC), Campus Universitat de les Illes Balears
Palma de Mallorca, Spain
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

Theriogenology (Journal)
Period: 6 Apr 2017
Anders Stockmarr (Reviewer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis
Degree of recognition: International

Related journal
Theriogenology
0093-691X
BFI (2018): BFI-level 2, Scopus rating (2016): CiteScore 1.99 SJR 0.766 SNIP 1.188, ISI indexed (2013): ISI indexed yes,
Web of Science (2018): Indexed yes
Central database
Activity: Research › Peer review of manuscripts

Burden of disease of barbecued meat—who’s at risk?
Period: 31 Mar 2017
Lea Sletting Jakobsen (Guest lecturer)
Stylianos Georgiadis (Guest lecturer)
Bo Friis Nielsen (Guest lecturer)
Anders Stockmarr (Guest lecturer)
Elena Boriani (Guest lecturer)
Lene Duedahl-Olesen (Guest lecturer)
Tine Hald (Guest lecturer)
Sara Monteiro Pires (Guest lecturer)
National Food Institute
Research Group for Risk-Benefit
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis
Research Group for Genomic Epidemiology
Research Group for Analytical Food Chemistry
Degree of recognition: International

Related external organisation
International Association for Food Protection
IC3 and IC4 Trains Under Risk of Blocking their Wheels - A Big Data Case Story
Period: 21 Mar 2017
Anders Stockmarr (Speaker)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis
DTU Executive School of Business
Degree of recognition: Local
Documents:
DTU Management 2103017

Related event
Visit from Antwerp Management School to DTU Business
20/03/2017 → 22/03/2017
Activity: Talks and presentations › Conference presentations

Cities research for District Heating Innovation
Period: 6 Mar 2017
Alfred Heller (Speaker)
Henrik Madsen (Speaker)
Centre for IT-Intelligent Energy Systems in Cities
Department of Civil Engineering
Department of Applied Mathematics and Computer Science
Description
Workshop on further development of district heatings after 4DH.
Henrik presented mathematical tools for district heating, and Alfred presented the Science Cloud for District Heating Innovation.
Documents:
Data Infrastruktur - Niras møde Århus marts 2017 - Alfred Heller

Related external organisation
NIRAS A/S
Denmark
Activity: Talks and presentations › Conference presentations

Time Series Analysis (02417)
Period: 17 Feb 2017
Anders Stockmarr (Speaker)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Related organisation
Time Series Analysis (02417)
Stockmarr, A. (Speaker)
17 Feb 2017
Activity: Talks and presentations › Conference presentations

10th International Conference on Advanced Technologies and Treatments for Diabetes
Period: 15 Feb 2017 → 18 Feb 2017
Dimitri Boiroux (Participant)
Department of Applied Mathematics and Computer Science
Scientific Computing
Degree of recognition: International

Related event

10th International Conference on Advanced Technologies and Treatments for Diabetes
15/02/2017 → 18/02/2017
Paris, France
Activity: Attending an event › Participating in or organising a conference

Statistics
Period: 25 Jan 2017 → 26 Jan 2100
Anders Stockmarr (External examiner)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Description
Exam in statistics at the publich health education programme, KU
Activity: Examinations and supervision › External examination

Statistical Genetics (02938)
Period: 6 Jan 2017 → 27 Jan 2017
Anders Stockmarr (Lecturer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Description
Lected by Anders Stockmarr

Related event

Statistical Genetics
06/01/2017 → 27/01/2017
Kgs. Lyngby, Denmark
Activity: Other

Statistical Genetics (02950)
Period: 6 Jan 2017 → 14 Jan 2017
Anders Stockmarr (Lecturer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Related event

Statistical Genetics
06/01/2017 → 14/01/2017
Kgs. Lyngby, Denmark
Activity: Other

Precision Engineering (Journal)
Period: 2016 → …
Alessandro Stolfi (Reviewer)
Department of Applied Mathematics and Computer Science
Department of Mechanical Engineering
Manufacturing Engineering
Degree of recognition: International

Related journal

Precision Engineering
0141-6359
BFI (2018): BFI-level 1, Scopus rating (2016): CiteScore 2.77 SJR 1.024 SNIP 2.201, ISI indexed (2013): ISI indexed yes,
Web of Science (2018): Indexed yes
Central database
Activity: Research › Peer review of manuscripts

Sensors (Journal)
Period: 2016 → …
Alessandro Stolfi (Reviewer)
Department of Applied Mathematics and Computer Science
Department of Mechanical Engineering
Manufacturing Engineering

Related journal

Sensors
1424-8220
BFI (2018): BFI-level 2, Scopus rating (2016): CiteScore 2.78 SJR 0.576 SNIP 1.393, ISI indexed (2013): ISI indexed yes,
Web of Science (2018): Indexed yes
Indexed in DOAJ
Central database
Activity: Research › Peer review of manuscripts

Online Educa Berlin 2016
Period: 1 Dec 2016
Helle Rootzén (Speaker)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Related event

Online Educa Berlin 2016
30/11/2016 → 02/12/2016
Berlin, Germany
Activity: Talks and presentations › Conference presentations

Tidligere uheld på biogas- og renseanlæg, herunder danske
Period: 18 Nov 2016
Frank Huess Hedlund (Speaker)
Department of Applied Mathematics and Computer Science
Dynamical Systems
Statistics and Data Analysis

Related event

SEVESO-direktivet og sikkerhedsdokumenter til biogasanlæg
18/11/2016 → …
København, Denmark
Activity: Talks and presentations › Conference presentations
Making sense of big data for Produced Water Treatment
Period: 17 Nov 2016
Thomas Martini Jørgensen (Invited speaker)
Centre for oil and gas – DTU
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis
Documents:
DHRTC-Technology-Conference.

Related event
DHRTC Technology Conference 2016
16/11/2016 → 17/12/2016
Helsingør, Denmark
Activity: Talks and presentations › Conference presentations

INFORMS Annual Meeting
Period: 13 Nov 2016 → 17 Nov 2016
Ignacio Blanco (Speaker)
Juan Miguel Morales González (Other)
Department of Applied Mathematics and Computer Science
Dynamical Systems
Description

Related event
INFORMS Nashville 2016 Annual Meeting: Fine Tuning Decisions in Music City
13/11/2016 → 17/11/2016
Nashville, United States
Activity: Talks and presentations › Conference presentations

Introduction to applied statistics and R for PhD students (02935)
Anders Stockmarr (Speaker)
Guillermina Eslava (Speaker)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis
Related organisation
Introduction to applied statistics and R for PhD students (02935)
Stockmarr, A. (Speaker), Eslava, G. (Speaker)
4 Nov 2016 → 28 Nov 2016
Activity: Talks and presentations › Conference presentations

Optimization challenges in the evolution of energy networks to smart cities.
Ignacio Blanco (Speaker)
Juan Miguel Morales González (Other)
Department of Applied Mathematics and Computer Science
Dynamical Systems
Description
Optimization challenges in the evolution of energy networks to smart cities.
Related event

Optimization challenges in the evolution of energy networks to smart cities.
Coimbra, Portugal
Activity: Talks and presentations › Conference presentations

Giulia De Zotti (Speaker)
Department of Applied Mathematics and Computer Science
Dynamical Systems

Description
Presentation about "Short-term Forecasting of Price-responsive Loads Using Inverse Optimization"

Workshop about optimization models and methods to address the challenges arising in the evolution of energy networks to smart grids.

Related event

Optimization challenges in the evolution of energy networks to smart grids
Coimbra, Portugal
Activity: Talks and presentations › Conference presentations

Big data og glatte skinner
Period: 11 Oct 2016
Anders Stockmarr (Invited speaker)
Statistics and Data Analysis
Department of Applied Mathematics and Computer Science

Description
(in Danish)
Documents:
Kollektiv Trafik Konferencen 11102016 ANST

Related event

Kollektiv Trafik Konferencen 2016
10/10/2016 → 11/10/2016
Korsør, Denmark
Activity: Talks and presentations › Conference presentations

IC3 and IC4 Trains Under Risk of Blocking their Wheels - A Big Data Case story
Period: 3 Oct 2016
Anders Stockmarr (Lecturer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis
Documents:
Big Data Business Academy 03102016 ANST

Related event

Big Data Business Academy
03/10/2016 → 05/10/2016
Lyngby, Denmark
Activity: Talks and presentations › Conference presentations
University of Virginia
Period: 1 Oct 2016 → 10 Dec 2016
Dimitri Boiroux (Visiting researcher)
Department of Applied Mathematics and Computer Science
Scientific Computing
Activity: Visiting an external institution › Visiting another research institution

MAS & HOL
Period: 28 Sep 2016
Anders Schlichtkrull (Participant)
Department of Applied Mathematics and Computer Science
Algorithms and Logic
Description
Formalization of Algorithms and Logical inference Systems in Proof Assistants
Talk "Formalization of Algorithms and Logical inference Systems in Proof Assistants"
Related event
MAS & HOL
28/09/2016 → …
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

International Workshop on Business Process Intelligence
Period: 19 Sep 2016
Andrea Burattin (Organizer)
Department of Applied Mathematics and Computer Science
Software Engineering
Degree of recognition: International
Related event
International Workshop on Business Process Intelligence
19/09/2016 → 19/09/2016
Rio de Janeiro, Brazil
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Heidelberg Laureate Forum
Period: 18 Sep 2016 → 23 Sep 2016
Hugo Daniel dos Santos Macedo (Participant)
Department of Applied Mathematics and Computer Science
Software Engineering
Description
Attended the 4th Heidelberg Laureate Forum
Related event
Heidelberg Laureate Forum
18/09/2016 → 23/09/2016
Activity: Attending an event › Participating in or organising a conference

Veterinary Journal (Journal)
Period: 3 Sep 2016 → 17 Sep 2016
Anders Stockmarr (Reviewer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

**Description**
The Veterinary Journal
peer review of manuscript

**Related journal**
Veterinary Journal
1090-0233
Central database
Activity: Research › Peer review of manuscripts

**Statistical Genetics (02586)**
Anders Stockmarr (Other)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

**Description**
master level course
Degree of recognition: Local
Activity: Other

**Water permeability**
Anders Stockmarr (Consultant)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

**Description**
External consultancy

**Related external organisation**
MBH-international A/S, Gydevang 28-30
Allerød, Denmark
Activity: Public and private sector consultancy › Consultancy

**Mathematics Working Group of the European Society for Engineering Education (External organisation)**
Mirza Karamehmedovic (Participant)
Department of Applied Mathematics and Computer Science
Scientific Computing
Neutrons and X-rays for Materials Physics

**Description**
National contact point for Denmark
Degree of recognition: International

**Related external organisation**
Mathematics Working Group of the European Society for Engineering Education
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

Nordic Number Theory Network Days IV: On the limits of towers over finite fields
Period: 3 Jun 2016 → 4 Jun 2016
Nurdagül Anbar Meidl (Invited speaker)
Department of Applied Mathematics and Computer Science
Mathematics

Related event
Nordic Number Theory Network Days IV
03/06/2016 → 04/06/2016
Copenhagen, Denmark
Activity: Talks and presentations › Conference presentations

Smart Energy and Stochastic Optimization
Period: 30 May 2016 → 2 Jun 2016
Giulia De Zotti (Participant)
Department of Applied Mathematics and Computer Science
Dynamical Systems
Description
International thematic week about stochastic optimization, decentralized optimization and their applications to the management of new energy systems.

Related event
Smart Energy and Stochastic Optimization
30/05/2016 → 02/06/2016
Paris, France
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

On curves over finite fields and their number of rational points
Period: 26 May 2016
Nurdagül Anbar Meidl (Lecturer)
Department of Applied Mathematics and Computer Science
Mathematics
Description
Sabancı University, İstanbul, Turkey

Related external organisation
Unknown external organisation
Activity: Talks and presentations › Conference presentations

WikiCite 2016
Period: 25 May 2016 → 26 May 2016
Finn Årup Nielsen (Participant)
Department of Applied Mathematics and Computer Science
Cognitive Systems
Description
Participation in Wikicite 2016

Related event
WikiCite 2016
25/05/2016 → 26/05/2016
Berlin, Germany
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**BAOJ Pediatrics (Journal)**
Period: 20 May 2016
Anders Stockmarr (Reviewer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Related journal

**BAOJ Pediatrics**

Local database
Activity: Research › Peer review of manuscripts

**Biology Letters (Journal)**
Period: 20 May 2016
Anders Stockmarr (Reviewer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Description
Biology Letters

Related journal

**Biology Letters**
1744-9561
BFI (2018): BFI-level 2, Scopus rating (2016): CiteScore 2.69 SJR 1.653 SNIP 1.03, ISI indexed (2013): ISI indexed yes,
Web of Science (2018): Indexed yes
Central database
Activity: Research › Peer review of manuscripts

**Curves with many rational points**
Period: 18 May 2016 → 22 May 2016
Nurdagül Anbar Meidl (Invited speaker)
Department of Applied Mathematics and Computer Science
Mathematics

Related event

**Antalya Algebra Days XVIII**
19/05/2016 → 23/05/2016
İzmir, Turkey
Activity: Talks and presentations › Conference presentations

**Veterinary Journal (Journal)**
Period: 13 May 2016 → 20 May 2016
Anders Stockmarr (Reviewer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Related journal

**Veterinary Journal**
Club2
Period: 11 May 2016
Anders Schlichtkrull (Participant)
Department of Applied Mathematics and Computer Science
Algorithms and Logic

Description
Formalization of the Resolution Calculus for First-Order Logic

Speaker: Anders Schlichtkrull

Abstract: A formalization in Isabelle/HOL of the resolution calculus for first-order logic is presented. Its soundness and completeness are formally proven using the substitution lemma, semantic trees, Herbrand's theorem, and the lifting lemma. In contrast to previous formalizations of resolution, it considers first-order logic with full first-order terms, instead of the propositional case.

Talk "Formalization of the Resolution Calculus for First-Order Logic" at Club2 of the Chair for Logic and Verification at the Technical University of Munich

Related event

Club2
11/05/2016 → …
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Biology Letters (Journal)
Period: 27 Apr 2016
Anders Stockmarr (Reviewer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Description
Biology Letters

Related journal

Biology Letters
1744-9561
BFI (2018): BFI-level 2, Scopus rating (2016): CiteScore 2.69 SJR 1.653 SNIP 1.03, ISI indexed (2013): ISI indexed yes,
Web of Science (2018): Indexed yes
Central database
Activity: Research › Peer review of manuscripts

Nutrition & Metabolism (Journal)
Period: 27 Apr 2016
Anders Stockmarr (Reviewer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Related journal

Nutrition & Metabolism
Scopus rating (2016): CiteScore 2.86 SJR 1.098 SNIP 0.962, Web of Science (2018): Indexed yes
Indexed in DOAJ
Local database
Activity: Research › Peer review of manuscripts

**Proof Assistants and Related Tools - The PART & PART 2 Projects 2016**

**Period:** 20 Apr 2016

Anders Schlichtkrull (Participant)

Department of Applied Mathematics and Computer Science

**Algorithms and Logic**

**Description**

Jørgen Villadsen & Anders Schlichtkrull: Computer-Checked Logical Inference Systems

Talk "Computer-Checked Logical Inference Systems" at PART

**Related event**

**Proof Assistants and Related Tools - The PART & PART 2 Projects 2016**

20/04/2016 → 20/04/2016

Kgs. Lyngby, Denmark

Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**HD-Tomo Days**

**Period:** 6 Apr 2016 → 8 Apr 2016

Mirza Karamehmedovic (Participant)

Department of Applied Mathematics and Computer Science

**Scientific Computing**

**Neutrons and X-rays for Materials Physics**

**Description**

HD-Tomo Days

**Related event**

**HD-Tomo Days**

06/04/2016 → 08/04/2016

Kgs. Lyngby, Denmark

Activity: Attending an event › Participating in or organising a conference

**SIAM Conference on Uncertainty Quantification**

**Period:** 5 Apr 2016 → 8 Apr 2016

Magnus Dam (Participant)

Department of Applied Mathematics and Computer Science

**Mathematics**

**Plasma Physics and Fusion Energy**

**Description**

Participation in conference

**Related event**

**SIAM Conference on Uncertainty Quantification**

05/04/2016 → 08/04/2016

Lausanne, Switzerland

Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**Notes on the computation of periodic orbits using Newton and Melnikov's method: Stroboscopic vs Poincaré map**

**Period:** 28 Mar 2016 → 4 Apr 2016
Albert Granados (Lecturer)
Department of Applied Mathematics and Computer Science
Mathematics

Description
Lecture notes for the subject "Dynamical Systems " held at DTU.
Documents:
week9_notes
Links:
https://arxiv.org/abs/1610.03363 (Arxiv's link)

Related external organisation
Unknown external organisation
Activity: Talks and presentations › Conference presentations

Ecole Polytechnique Federale de Lausanne (EPFL)
Magnus Dam (Visiting researcher)
Department of Applied Mathematics and Computer Science
Mathematics
Plasma Physics and Fusion Energy

Description
Research Stay at EPFL
An external stay at the Mathematics Institute of Computational Science and Engineering (MATHICSE) at École Polytechnique Fédérale de Lausanne. Performed work on PhD project supervised by Professor Jan Hesthaven.
Activity: Visiting an external institution › Visiting another research institution

Introduction to applied statistics and R for PhD students (02935)
Anders Stockmarr (Lecturer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Related external organisation
Unknown external organisation
Activity: Talks and presentations › Conference presentations

NordSecMob Network meeting (Event)
Period: 19 Feb 2016
Flemming Stassen (Reviewer)
Department of Applied Mathematics and Computer Science
Embedded Systems Engineering

Description
NordSecMob Network meeting
29 selection meeting

Related event
NordSecMob Network meeting 2016
19/02/2016 → …
Finland
Activity: Communication › Peer review of manuscripts

**Inverse scattering problems in characterisation of nanomaterials**
Period: 11 Feb 2016
Mirza Karamehmedovic (Invited speaker)
Department of Applied Mathematics and Computer Science
Scientific Computing
Neutrons and X-rays for Materials Physics

**Description**
Inverse scattering problems in characterisation of nanomaterials
Degree of recognition: International

**Related event**
**Inverse scattering problems in characterisation of nanomaterials**
11/02/2016 → …
Sarajevo, Bosnia and Herzegovina
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

**Formel Modellering og Verifikation af Jernbanekontrolsystemer: Et eksempel fra RobustRailS WP 4.1**
Period: 3 Feb 2016
Anne Elisabeth Haxthausen (Invited speaker)
Department of Applied Mathematics and Computer Science
Software Engineering

**Description**
Invited talk at the Inauguration of RailTech DTU, the Centre for Rail Technology

**Related external organisation**
**Unknown external organisation**
Activity: Talks and presentations › Conference presentations

**Workshop on Finite Fields: Arcs, Curves and Bent Functions**
Period: 1 Feb 2016 → 3 Feb 2016
Nurdagül Anbar Meidl (Speaker)
Department of Applied Mathematics and Computer Science
Mathematics

**Description**
A new tower meeting Zink's bound with good p-rank

**Related event**
**Workshop on Finite Fields: Arcs, Curves and Bent Functions**
01/02/2016 → 03/02/2016
İstanbul, Turkey
Activity: Talks and presentations › Conference presentations

**Multivariate Time Series Estimation using marima**
Period: 26 Jan 2016
Henrik Spliid (Speaker)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Related event

38. Symposium i Anvendt Statistik 2016
25/01/2016 → 27/01/2016
Copenhagen, Denmark
Activity: Talks and presentations › Conference presentations

A new tower meeting Zink's bound with good p-rank, Ankara, Turkey
Period: 23 Dec 2015
Nurdagül Anbar Meidl (Lecturer)
Mathematics
Department of Applied Mathematics and Computer Science

Unknown external organisation
Activity: Talks and presentations › Conference presentations

Sikkerhed, sikring og sikkerhedskultur
Period: 14 Dec 2015
Frank Huess Hedlund (Speaker)
Department of Applied Mathematics and Computer Science
Dynamical Systems
Statistics and Data Analysis
Description
Fællesarrangement mellem IDA – SAM (selskab for arbejdsmiljø) og IDA – RISK (selskab for risikovurdering)
Ingeniørhuset, København
Sikkerhed, sikring og sikkerhedskultur, indlæg om sikkerhed og sikring, herunder præsentation af resultater fra opgave for EU kommissionen om sikring af Seveso anlæg.
Documents:
Frank Hedlund IDA sikkerhed, sikring

Related event

Sikkerhed, sikring og sikkerhedskultur
14/12/2015 → 14/12/2015
Denmark
Activity: Talks and presentations › Conference presentations

Arithmetic Geometry: Explicit Methods and Applications
Period: 7 Dec 2015 → 11 Dec 2015
Nurdagül Anbar Meidl (Speaker)
Mathematics
Department of Applied Mathematics and Computer Science
Description
On the limits of a cubic tower

Related event

Arithmetic Geometry: Explicit Methods and Applications
Description
Failure to learn after accidents – the lamentable situation in Denmark

Related event
1st Nordic Chapter Risk Conference: The Future of Risk Analysis in the Nordic Countries
16/11/2015 → 17/11/2015
Lund, Sweden
Activity: Talks and presentations › Conference presentations

International Journal of Agricultural Sciences (Journal)
Period: 13 Nov 2015 → 19 Nov 2015
Anders Stockmarr (Reviewer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis
Related journal
International Journal of Agricultural Sciences
Somatic Cell Count in Milk from Dairy Cattle: The Dilution Effect Matters
Period: 7 Nov 2015
Kaare Græsbøll (Speaker)
Department of Applied Mathematics and Computer Science
National Veterinary Institute
Section for Epidemiology
Documents:
Abstract

Related event
14th Conference of the International Society for Veterinary Epidemiology and Economics
03/11/2015 → 07/11/2015
Mérida, Yucatan, Mexico
Activity: Talks and presentations › Conference presentations

Predicting the Future Average Production of a Dairy Cow
Period: 6 Nov 2015
Kaare Græsbøll (Speaker)
Department of Applied Mathematics and Computer Science
National Veterinary Institute
Section for Epidemiology
Documents:
ISVEE FAP

Related event
14th Conference of the International Society for Veterinary Epidemiology and Economics
03/11/2015 → 07/11/2015
Mérida, Yucatan, Mexico
Activity: Talks and presentations › Conference presentations

Veterinary Journal (Journal)
Period: 3 Nov 2015 → 5 Nov 2015
Anders Stockmarr (Reviewer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Related journal
Veterinary Journal
1090-0233
Central database
Activity: Research › Peer review of manuscripts

Columbia University
Period: 1 Nov 2015 → 31 Jan 2016
Helle Rootzén (Visiting researcher)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Description
Visiting Professor
Activity: Visiting an external institution › Visiting another research institution

World Customs Organization Technology and Innovation Forum
Jens Kristian Munk (Participant)
Department of Micro- and Nanotechnology
Surface Engineering
Department of Applied Mathematics and Computer Science

Description
World Customs Organization Technology and Innovation Forum 2015

Related event

World Customs Organization Technology and Innovation Forum
26/10/2015 → 29/10/2015
Rotterdam, Netherlands
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Which priorities for a European policy on multimorbidity?
Period: 27 Oct 2015
Anders Stockmarr (Participant)
Department of Applied Mathematics and Computer Science

Description
participation in conference
Links:
http://ec.europa.eu/health/ageing/events/ev_20151027_en.htm (Conference home page)

Related event

Which priorities for a European policy on multimorbidity?
27/10/2015 → 27/10/2015
Brussels, Belgium
Activity: Attending an event › Participating in or organising a conference

10 years of NordSecMob: The NordSecMob journey
Period: 17 Oct 2015
Flemming Stassen (Invited speaker)
Department of Applied Mathematics and Computer Science
Embedded Systems Engineering

Related event

NordSecMob Alumni Conference
17/10/2015 → 18/10/2015
Stockholm, Sweden
Activity: Talks and presentations › Conference presentations

BSc program Strategic Analysis and Systems Design (Event)
Period: 6 Oct 2015 → …
Anders Stockmarr (Participant)
Department of Applied Mathematics and Computer Science
Department of Management Engineering

**Description**
Member of monitoring group

Member of DTU Internal monitoring group for the BSc program Strategic Analysis and Systems Design

Links:
http://www.dtu.dk/english/education/bachelor--beng-and-bsc-/bsc/strategic_analysis_and_systems_design (Strategic Analysis and Systems Design)

**Related event**

**BSc program Strategic Analysis and Systems Design**
06/10/2015 → …
Denmark
Activity: Membership › Membership of research networks or expert groups

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PART
Period: 30 Sep 2015
Anders Schlichtkrull (Participant)
Department of Applied Mathematics and Computer Science
Algorithms and Logic

**Description**
Formalization of Resolution Calculus in Isabelle

Talk "Formalization of Resolution Calculus in Isabelle" at PART

**Related event**

**Proof Assistants and Related Tools - The PART & PART 2 Projects 2015**
23/09/2015 → 24/09/2015
Kgs. Lyngby, Denmark
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

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University of Southern Denmark (External organisation)
Period: 29 Sep 2015 → 21 Dec 2015
Jens Gravesen (Participant)
Department of Applied Mathematics and Computer Science
Mathematics

**Description**
The Ph.D. committee of Konstantin Filonenko, University of Southern Denmark
Thesis: Mathematical modelling of the Purcell effect in plasmonic nanostructures

The Ph.D. committee of Konstantin Filonenko, University of Southern Denmark Thesis: Mathematical modelling of the Purcell effect in plasmonic nanostructures

Body type: Ph.D committee
Degree of recognition: International

**Related external organisation**

University of Southern Denmark
Odense, Denmark
Activity: Membership › Membership in review committee
On the p-rank of the tower of Bassa, Beelen, Garcia and Stichtenoth, Linz, Austria
Period: 22 Sep 2015
Nurdagül Anbar Meidl (Lecturer)
Department of Applied Mathematics and Computer Science

Description
Talk at Johann Radon Institute (RICAM), Linz, Austria

Related external organisation
Unknown external organisation
Activity: Talks and presentations › Conference presentations

P L o S One (Journal)
Period: 21 Sep 2015 → 31 Dec 2015
Anders Stockmarr (Reviewer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Related journal
P L o S One
1932-6203
Indexed in DOAJ
Central database
Activity: Research › Peer review of manuscripts

CRIM-TRACK: Sensor system for detection of criminal chemical substances
Period: 20 Sep 2015
Jens Kristian Munk (Speaker)
Department of Micro- and Nanotechnology
Surface Engineering
Department of Applied Mathematics and Computer Science

Related event
SPIE Security + Defence 2015
21/09/2015 → 24/09/2015
Toulouse, France
Activity: Talks and presentations › Conference presentations

National Academy Science Letters (Journal)
Period: 16 Sep 2015 → 1 Oct 2015
Anders Stockmarr (Reviewer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Related journal
National Academy Science Letters
Local database
Activity: Research › Peer review of manuscripts

Segmentation and characterization of fibers
Period: 15 Sep 2015
Vedrana Andersen Dahl (Invited speaker)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis
Documents:
20150915_fibersegmentering

Related event

CT Scanning Erfa-gruppe
15/09/2015 → …
Kgs. Lyngby, Denmark
Activity: Talks and presentations › Conference presentations

An Introduction to Multisensory Perception
Period: 8 Sep 2015
Tobias Andersen (Lecturer)
Department of Applied Mathematics and Computer Science
Cognitive Systems

Related external organisation

University of Copenhagen
Bülowsvej 17, 1780, Copenhagen, Denmark
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

Dynamics Days Europe 2015
Period: 6 Sep 2015 → 10 Sep 2015
Magnus Dam (Participant)
Department of Applied Mathematics and Computer Science
Mathematics
Department of Physics
Plasma Physics and Fusion Energy

Description
Attended conference and presented a poster.
Documents:
TopologicalBifurcation poster - Magnus

Related event

Dynamics Days Europe 2015
06/09/2015 → 10/09/2015
Exeter, United Kingdom
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Statistical Quality Control (02413)
Period: 3 Sep 2015 → 9 Dec 2015
Anders Stockmarr (Lecturer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Related event

Statistical Quality Control
03/09/2015 → 09/12/2015
Kgs. Lyngby, Denmark
02411 Statistical Design and Analysis of Experiments
Period: 1 Sep 2015 → 31 Aug 2016
Camilla Thyregod (Lecturer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Description
Course lecturer

Related organisation

02411 Statistical Design and Analysis of Experiments
Thyregod, C. (Lecturer)
1 Sep 2015 → 31 Aug 2016
Activity: Other

International Workshop on Business Process Intelligence
Period: 31 Aug 2015
Andrea Burattin (Organizer)
Department of Applied Mathematics and Computer Science
Software Engineering
Degree of recognition: International

Related event

International Workshop on Business Process Intelligence
31/08/2015 → 31/08/2015
Innsbruck, Austria
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Statistical Genetics (02586)
Period: 31 Aug 2015 → 17 Dec 2015
Anders Stockmarr (Lecturer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Description
lectured by Anders Stockmarr

Related event

Statistical Genetics
31/08/2015 → 17/12/2015
Kgs. Lyngby, Denmark
Activity: Other

A Smart Mobile Lab-on-Chip-Based Medical Diagnostics System Architecture Designed For Evolvability
Period: 27 Aug 2015
François Patou (Speaker)
Department of Micro- and Nanotechnology
Nano Bio Integrated Systems
Department of Applied Mathematics and Computer Science

Description
Oral presentation
Related event

Digital Systems Design 2015: Special Session on Advanced Systems for Healthcare, Sports and Wellness
26/08/2015 → 28/08/2015
Funchal, Portugal
Activity: Talks and presentations › Conference presentations

Training School on Big Data and Data Warehousing
Period: 27 Aug 2015
Ana Carolina Lopes Antunes (Participant)
Department of Applied Mathematics and Computer Science
National Veterinary Institute

Related event

Training School on Big Data and Data Warehousing
26/08/2015 → 28/08/2015
Denmark
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

IC3 and IC4 Trains Under Risk of Blocking their Wheels: A case study on challenges when working with data from multiple databases
Period: 26 Aug 2015
Anders Stockmarr (Invited speaker)
Statistics and Data Analysis
Department of Applied Mathematics and Computer Science
Documents:
Big Data Data Warehousing and Data Analytics ANST 2608_2015

Related event

Big Data, Data Warehousing, and Data Analytics: EU-COST FAIM Training School
26/08/2015 → 29/08/2015
Lyngby, Denmark
Activity: Talks and presentations › Conference presentations

Battling Bluetongue and Schmallenberg virus: Local scale behavior of transmitting vectors
Period: 10 Aug 2015
Anders Stockmarr (Invited speaker)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis
National Veterinary Institute
Section for Epidemiology
Documents:
Infectious Diseases 1008 2015 Anders Stockmarr
Abstract_Anders_Stockmarr_et_al_Infectious_Diseases_2015

Related event

World Congress on Infectious Diseases 2015
10/08/2015 → 12/08/2015
London, United Kingdom
Activity: Talks and presentations › Conference presentations

Ph.D. School-Conference on "Mathematical Modeling of Complex Systems"
Magnus Dam (Participant)
Department of Applied Mathematics and Computer Science
Mathematics
Department of Physics
Plasma Physics and Fusion Energy

Description
Course participation

Related event

Ph.D. School-Conference on "Mathematical Modeling of Complex Systems"
20/07/2014 → 30/07/2015
Patras, Greece
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

CryptoForma Workshop
Period: 13 Jul 2015
Omar Almousa (Speaker)
Department of Applied Mathematics and Computer Science
Language-Based Technology

Description

Related event

A Data-driven Bidding Model for a Cluster of Price-responsive Consumers of Electricity
Period: 12 Jul 2015 → 17 Jul 2015
Juan Miguel Morales González (Invited speaker)
Department of Applied Mathematics and Computer Science
Dynamical Systems
Centre for IT-Intelligent Energy Systems in Cities

Related event

22nd International Symposium on Mathematical Programming
12/07/2015 → 17/07/2015
Pittsburgh, United States
Activity: Talks and presentations › Conference presentations

International Synthetic and Systems Biology Summer School
Period: 5 Jul 2015 → 9 Jul 2015
Hasan Baig (Participant)
Department of Applied Mathematics and Computer Science
Embedded Systems Engineering

Description
Presented a poster in SSBSS (Synthetic and Systems Biology Summer School) 2015 in Taormina, Italy.

Related event
International Synthetic and Systems Biology Summer School  
15/06/2014 → 19/06/2014  
Taormina, Italy  
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Daniella Kornelia Fußeder, TU Kaiserslautern (External organisation)  
Period: 1 Jul 2015 → 29 Oct 2015  
Jens Gravesen (Participant)  
Department of Applied Mathematics and Computer Science  
Mathematics  
Description  
On the Ph.D. committee for Daniella Kornelia Fußeder, TU Kaiserslautern  
Thesis: Isogeometric finite element methods for shape optimization  
On the Ph.D. committee for Daniella Kornelia Fußeder, TU Kaiserslautern  
Thesis: Isogeometric finite element methods for shape optimization  
Body type: Ph.D. committee  
Degree of recognition: International  
Related external organisation  
Daniella Kornelia Fußeder, TU Kaiserslautern  
Activity: Membership › Membership in review committee

Montreal Clinical Research Institute (IRCM)  
Sabrina Lyngbye Wendt (Visiting researcher)  
Department of Applied Mathematics and Computer Science  
Scientific Computing  
Description  
External Research Stay  
Activity: Visiting an external institution › Visiting another research institution

Danish Exam - Novice Level  
Period: 10 Jun 2015  
Sabrina Lyngbye Wendt (External examiner)  
Department of Applied Mathematics and Computer Science  
Scientific Computing  
Description  
Censor in oral and written test for Novice level.  
Activity: Examinations and supervision › External examination

ICES  
Period: 9 Jun 2015  
Gilles Guillot (Participant)  
Department of Applied Mathematics and Computer Science  
Cognitive Systems  
Description  
ICES working group on Spatial data  
Related event
ICES Working Group on Spatial Fisheries Data
08/06/2015 → 12/06/2015
Denmark, Denmark
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Nordic Environmental Social Science Conference
Period: 9 Jun 2015 → 11 Jun 2015
Juan Miguel Morales González (Speaker)
Department of Applied Mathematics and Computer Science
Dynamical Systems
Centre for IT-Intelligent Energy Systems in Cities

Description
Speaker in the Nordic Environmental Social Science Conference

Related event

Nordic Environmental Social Science Conference: Energy Systems and Markets
09/06/2015 → 11/06/2015
Trondheim, Norway
Activity: Talks and presentations › Conference presentations

Introduction to applied statistics and R for PhD students (02935)
Period: 8 Jun 2015 → 26 Jun 2015
Anders Stockmarr (Lecturer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Related external organisation

Unknown external organisation
Activity: Talks and presentations › Conference presentations

Statistical Genetics (02938)
Period: 1 Jun 2015 → 19 Jun 2015
Anders Stockmarr (Lecturer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Description
phd course
Lected by Anders Stockmarr

Related event

Statistical Genetics
01/06/2015 → 19/06/2015
Kgs. Lyngby, Denmark
Activity: Other

Member of PhD committee (External organisation)
Period: May 2015
Gilles Guillot (Participant)
Department of Applied Mathematics and Computer Science
Cognitive Systems
Description
Member of PhD committee, mathematics department, Aalborg university

Related external organisation

Member of PhD committee
Activity: Membership › Membership in review committee

15th International Conference on Arithmetic, Geometry, Cryptography and Coding Theory
Nurdagül Anbar Meidl (Speaker)
Department of Applied Mathematics and Computer Science
Mathematics

Description
On idempotent quadratic functions and the weight distribution of subcodes of Reed-Muller codes

Related event

15th International Conference on Arithmetic, Geometry, Cryptography and Coding Theory
18/05/2015 → 22/05/2015
Marseille, France
Activity: Talks and presentations › Conference presentations

SIAM Conference on Applications of Dynamical Systems
Elena Bossolini (Participant)
Department of Applied Mathematics and Computer Science
Mathematics

Description
Slow-fast analysis of Earthquake Faulting
Description of the ongoing research on the model for earthquake faulting with the rate and state friction law.
Degree of recognition: International
Documents:
Poster_SIAMDS2015

Related event

SIAM Conference on Applications of Dynamical Systems
17/05/2015 → 21/05/2015
Snowbird, Utah, United States
Activity: Attending an event › Participating in or organising a conference

Statistical modelling for energy system planning
Period: 11 May 2015
Juan Miguel Morales González (Organizer)
Department of Applied Mathematics and Computer Science
Dynamical Systems
Centre for IT-Intelligent Energy Systems in Cities

Description
Seminar by Dr. Chris Dent, from the University of Durham

"Statistical modelling for energy system planning" by Dr. Chris Dent, from the University of Durham
Model and inference algorithm to combine genetic, phenotypic and geographic information
Period: 29 Apr 2015
Gilles Guillot (Invited speaker)
Department of Applied Mathematics and Computer Science
Cognitive Systems

Description
Recognition of evolutionary units (species, populations) requires integrating several kinds of data, such as genetic or phenotypic markers or spatial information in order to get a comprehensive view concerning the differentiation of the units. We propose a statistical model with a double original advantage: (i) it incorporates information about the spatial distribution of the samples, with the aim to increase inference power and to relate more explicitly observed patterns to geography and (ii) it allows one to analyze genetic and phenotypic data within a unified model and inference framework, thus opening the way to robust comparisons between markers and possibly combined analyses. We show from simulated data as well as real data that our method estimates parameters accurately and is an improvement over alternative approaches in many situations. The power of this method is exemplified using an intricate case of inter- and intraspecies differentiation based on an original data set of georeferenced genetic and morphometric markers obtained on Myodes voles from Sweden. A computer program is made available as an extension of the R package Geneland.

Related event
Species delimitation in the age of genomics
28/04/2015 → 30/04/2015
Canberra, Australia
Activity: Talks and presentations › Conference presentations
University of Southern Denmark (External organisation)
Jens Gravesen (Participant)
Department of Applied Mathematics and Computer Science
Mathematics

Description
Assessment committee for position as Associate Professor in Applied Mathematics and Control, University of Southern Denmark

Assessment committee for position as Associate Professor in Applied Mathematics and Control, University of Southern Denmark

Body type: Assessment committee
Degree of recognition: International

Related external organisation
University of Southern Denmark
Odense, Denmark
Activity: Membership › Membership in review committee

Combining text mining and coordinate-based meta-analysis
Period: 21 Apr 2015
Finn Årup Nielsen (Invited speaker)
Department of Applied Mathematics and Computer Science
Cognitive Systems
Description
From invited talk given at Neuroimaging meta-analysis methods workshop in Paris and organized by Bertrand Thirion. 2015 April.
Documents:
NielsenF2015Combining_slides

Related external organisation
Unknown external organisation
Activity: Talks and presentations › Conference presentations

9th International Workshop on Coding and Cryptography (WCC 2015)
Period: 13 Apr 2015 → 17 Apr 2015
Nurdagül Anbar Meidl (Speaker)
Department of Applied Mathematics and Computer Science
Mathematics

Description
On the nonlinearity of idempotent quadratic functions and the weight distribution of subcodes of Reed-Muller codes

Related event
9th International Workshop on Coding and Cryptography (WCC 2015)
13/04/2015 → 17/04/2015
Paris, France
Activity: Talks and presentations › Conference presentations

From non-smooth to smooth friction models, using regularisation and slow-fast theory
Elena Bossolini (Speaker)
Department of Applied Mathematics and Computer Science
Mathematics

Description
Presented the outline of the PhD project and preliminary results
Documents:
Poster_DCAMM2015

Related event
DCAMM 15th Internal Symposium
16/03/2015 → 18/03/2015
Horsens, Denmark
Activity: Talks and presentations › Conference presentations

Aerobiologica (Journal)
Anders Stockmarr (Reviewer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Related journal
Aerobiologica
Local database
Activity: Research › Peer review of manuscripts
**DI's arbejdsmiljøkonference 2015**
Period: 10 Mar 2015
Frank Huess Hedlund (Speaker)
Department of Applied Mathematics and Computer Science
Links:
http://di.dk/diuddannelse/Konferencer/Pages/DIsarbejdsmiljoekonference20151216-9723.aspx

Related event

**DI's arbejdsmiljøkonference 2015**
10/03/2015 → …
Odense, Denmark
Activity: Talks and presentations › Conference presentations

**KPI’er og strategisk arbejdsmiljøarbejde**
Period: 24 Feb 2015
Frank Huess Hedlund (Speaker)
Department of Applied Mathematics and Computer Science
Links:
https://ida.dk/event/312891

Related event

**KPI'ær og strategisk arbejdsmiljøarbejde**
24/02/2015 → …
København, Denmark
Activity: Talks and presentations › Conference presentations

**February Fourier Talks**
Period: 23 Feb 2015 → 27 Feb 2015
Mads Sielemann Jakobsen (Participant)
Department of Applied Mathematics and Computer Science
Mathematics

Description
I presented a poster on "Generalized Translation Invariant Frames" at the February Fourier Talks at the Norbert Wiener Center for Applied Harmonic Analysis at the University of Maryland, College in the USA.

Related event

**February Fourier Talks**
23/02/2015 → 27/02/2015
College Park, Maryland, USA, United States
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**Models and Modes of Audiovisual integration**
Period: 18 Feb 2015
Tobias Andersen (Lecturer)
Department of Applied Mathematics and Computer Science
Cognitive Systems

Description
Invited lecture at Swansea University
Documents:
TobiasAndersenSwanseaTalk180215

Related external organisation

Unknown external organisation
Time Series Analysis (TSA); 02417
Period: 5 Feb 2015 → 30 Jun 2015
Anders Stockmarr (Lecturer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Related event
Time Series Analysis
05/02/2015 → 30/06/2015
Kgs. Lyngby, Denmark
Activity: Other

NordSecMob Network meeting 2015 (Event)
Period: 29 Jan 2015 → 30 Jan 2015
Flemming Stassen (Reviewer)
Department of Applied Mathematics and Computer Science
Embedded Systems Engineering

Description
NordSecMob Network meeting
29 selection meeting

Related event
NordSecMob Network meeting 2015
29/01/2015 → …
Finland
Activity: Research › Peer review of manuscripts

The likelihood principle and its proof – a never-ending story…
Period: 27 Jan 2015
Thomas Martini Jørgensen (Lecturer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Related event
37th Symposium i Anvendt Statistik 2015
26/01/2015 → 28/01/2015
Kongens Lyngby, Denmark
Activity: Talks and presentations › Conference presentations

Comparison of different methods for calculating usual intakes
Period: 26 Jan 2015 → 28 Jan 2015
Anja Pia Biltoft-Jensen (Other)
Elisabeth Wreford Andersen (Speaker)
National Food Institute
Division of Risk Assessment and Nutrition
Department of Informatics and Mathematical Modeling

Description
Det 37. symposium i anvendt statistik 26.-28. januar 2015- Danmarks Tekniske Universitet
Related external organisation

Danmarks Statistik
Denmark
Activity: Talks and presentations › Conference presentations

Social inequality in obesity and the obesity epidemic for children: A review
Period: 26 Jan 2015
Anders Stockmarr (Speaker)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis
Documents:
Symposium i Anvendt Statistik 2015 ANST

Related event

37th Symposium i Anvendt Statistik 2015
26/01/2015 → 28/01/2015
Kongens Lyngby, Denmark
Activity: Talks and presentations › Conference presentations

19th Nordic Process Control Workshop
Period: 16 Jan 2015
Dimitri Boiroux (Speaker)
Department of Applied Mathematics and Computer Science
Scientific Computing
Documents:
NPCW 2015 abstract

Related event

19th Nordic Process Control Workshop
13/01/2015 → 16/01/2015
Trondheim, Norway
Activity: Talks and presentations › Conference presentations

Sleep spindles: Breaking the methodological wall (Journal)
Period: 7 Jan 2015 → 1 Jun 2015
Sabrina Lyngbye Wendt (Reviewer)
Department of Applied Mathematics and Computer Science

Related journal

Sleep spindles: Breaking the methodological wall
Local database
Activity: Research › Peer review of manuscripts

10th Danish-French workshop in Spatial Statistics
Period: 2014
Gilles Guillot (Invited speaker)
Department of Applied Mathematics and Computer Science
Cognitive Systems

Description
10th Danish-French workshop in Spatial Statistics,
Global Energy Forecasting Competition 2014
Period: 2014 → …
Pierre Pinson (Participant)
Department of Electrical Engineering
Center for Electric Power and Energy
Electricity markets and energy analytics
Department of Applied Mathematics and Computer Science

Description
Global Energy Forecasting Competition 2014: GEFCom2014

Related event
Global Energy Forecasting Competition 2014
15/08/2015 → 15/12/2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

International Journal of Forecasting (Journal)
Period: 2014 → …
Pierre Pinson (Editor)
Department of Electrical Engineering
Center for Electric Power and Energy
Electricity markets and energy analytics
Department of Applied Mathematics and Computer Science

Related journal
International Journal of Forecasting
0169-2070
BFI (2018): BFI-level 2, Scopus rating (2016): CiteScore 2.45 SJR 1.685 SNIP 2.21, ISI indexed (2013): ISI indexed yes,
Web of Science (2018): Indexed yes
Central database
Activity: Research › Journal editor

Optical Coherence Tomography for biomedical imaging
Period: 12 Dec 2014
Thomas Martini Jørgensen (Lecturer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Related event
Workshop on the use of large facilities for biomedical research: Copenhagen imaging network
12/12/2014 → …
Copenhagen, Denmark
Activity: Talks and presentations › Conference presentations

Optical Coherence Tomography for biomedical imaging
Period: 12 Dec 2014
Thomas Martini Jørgensen (Lecturer)
Description
Workshop held by the Copenhagen Imaging Network (CIN) on the use of large facilities for biomedical research, taking place on December 12th from 9.00 - 12.00. The venue is Copenhagen Admiral Hotel, Tolbodgade 24-28, 1253 Copenhagen.

Related event
Workshop on the use of large facilities for biomedical research: Copenhagen imaging network
12/12/2014 → …
Copenhagen, Denmark
Activity: Talks and presentations › Conference presentations

Assessment committee PhD Scholarships, DTU compute (External organisation)
Period: 10 Nov 2014
Gilles Guillot (Participant)
Department of Applied Mathematics and Computer Science
Cognitive Systems

Related external organisation
Assessment committee PhD Scholarships, DTU compute
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

Modeling categorial audiovisual perception: pitfalls and solutions
Period: 7 Nov 2014
Tobias Andersen (Lecturer)
Department of Applied Mathematics and Computer Science
Cognitive Systems

Related external organisation
Unknown external organisation
Activity: Talks and presentations › Conference presentations

Introduction to applied statistics and R for PhD students (02935)
Period: 3 Nov 2014 → 21 Nov 2014
Anders Stockmarr (Lecturer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Related external organisation
Unknown external organisation
Activity: Talks and presentations › Conference presentations

Workshop on effects of global change on species' range fluctuations using intra-specific genetic variation in both phenotypic and molecular data
Gilles Guillot (Invited speaker)
Department of Applied Mathematics and Computer Science
Cognitive Systems

Related event
Workshop on effects of global change on species' range fluctuations using intra-specific genetic variation in both phenotypic and molecular data
23/10/2014 → 24/10/2014
Seville, Spain
Activity: Talks and presentations › Conference presentations

Mysterious fires in Moirans-en-Montagne checkmated the town's crisis management team: Theme: Crisis management
Period: 22 Oct 2014
Frank Huess Hedlund (Speaker)
Department of Applied Mathematics and Computer Science

Description
Kompetencedage autumn 2014.
The biannual symposium "Competence Days" are organized by Samtænkning, a unit under the Ministry of Defence (Denmark). (www.samtaenkning.dk)
Documents:
Program for kompetenceudviklingsdage på Kastellet 22 og 23 oktober 2014

Related event
Kompetencedage efterår 2014: Tema: Krisestyring
22/10/2014 → 23/10/2014
Copenhagen, Denmark
Activity: Talks and presentations › Conference presentations

Doctoral school course: Computational Harmonic Analysis - with applications
Mads Sielemann Jakobsen (Participant)
Department of Applied Mathematics and Computer Science
Mathematics

Description
Doctoral school with lectures, exercises and poster session at the CIRM in Marseille.

Related event
Doctoral school course: Computational Harmonic Analysis - with applications
20/10/2014 → 24/10/2014
Marseille, France
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Layered Surface Detection in Micro-CT Tetra Pak Data
Period: 7 Oct 2014
Vedrana Andersen Dahl (Invited speaker)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis
Documents:
ERFA_meeting_20141007_removed

Related event
ERF
07/10/2014 → …
Lund, Sweden
Activity: Talks and presentations › Conference presentations

MEK/Compute seminar
Period: 3 Oct 2014
Vedrana Andersen Dahl (Speaker)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

**Description**
Surface Detection and Segmentation
Documents:
VAND_MEK

**Related event**

**MEK/Compute seminar**
03/10/2014 → …
Kgs. Lyngby, Denmark
Activity: Talks and presentations › Conference presentations

**Advances in Architectural Geometry 2014**
Period: 18 Sep 2014 → 21 Sep 2014
Toke Bjerge Nørbjerg (Participant)
Department of Applied Mathematics and Computer Science
Mathematics

**Description**
Participation in conference and presenting poster

Advances in Architectural Geometry conference
Documents:
AAGposter
Links:
http://www.architecturalgeometry.org/aag14/ (Conference homepage)

**Related event**

**Advances in Architectural Geometry 2014**
18/09/2014 → 21/09/2014
London, United Kingdom
Activity: Attending an event › Participating in or organising a conference

**Technische Universität Graz**
Period: 13 Sep 2014 → 13 Feb 2015
Toke Bjerge Nørbjerg (Visiting researcher)
Department of Applied Mathematics and Computer Science
Mathematics

**Description**
PhD research stay at the Institute of Geometry at TU Graz
Activity: Visiting an external institution › Visiting another research institution

**Occupational health and safety management audit systems – developments, challenges and perspectives**
Period: 10 Sep 2014
Frank Huess Hedlund (Speaker)
Department of Applied Mathematics and Computer Science
Degree of recognition: International
Documents:
NOSHCON 2014 Draft Programme
Links:
http://www.noshcon.co.za/

**Related event**
53rd Annual Occupational Risk Management Conference and Exhibition
09/09/2014 → 12/09/2014
South Africa
Activity: Talks and presentations › Conference presentations

National Academy Science Letters (Journal)
Period: 9 Sep 2014 → 23 Sep 2014
Anders Stockmarr (Reviewer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis
Related journal

National Academy Science Letters
Local database
Activity: Research › Peer review of manuscripts

An Introduction to Multisensory Perception
Period: 2 Sep 2014
Tobias Andersen (Lecturer)
Department of Applied Mathematics and Computer Science
Cognitive Systems
Related external organisation
University of Copenhagen
Bülowsvej 17, 1780, Copenhagen, Denmark
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

Statistical Genetics
Period: 1 Sep 2014 → 9 Dec 2014
Anders Stockmarr (Lecturer)
Department of Systems Biology
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis
Description
Lectured by Andres Stockmarr
Related event

Statistical Genetics
01/09/2014 → 09/12/2014
Kgs. Lyngby, Denmark
Activity: Other

51st Culham Plasma Physics Summer School
Magnus Dam (Participant)
Department of Applied Mathematics and Computer Science
Mathematics
Department of Physics
Plasma Physics and Fusion Energy
Description
Presented a poster.
Documents:
LH transition poster by M Dam (2014)

**Related event**

_51st Culham Plasma Physics Summer School_
14/07/2014 → 25/07/2014
Abingdon, Oxfordshire, United Kingdom
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**Erhvervs- og Vækstministeriet (External organisation)**
Period: 1 Jul 2014 → 30 Jun 2019
Flemming Stassen (Participant)
Department of Applied Mathematics and Computer Science
Embedded Systems Engineering

**Description**
Appeal Board of Patents and Trademarks
Technical reviewer (reappointment)

Body type: Appeal Board
Links:
http://www.pvanke.dk/pvanke/

**Related external organisation**

_ Erhvervs- og Vækstministeriet_  
Slotholmsgade 10-12, 1216, København K, Denmark  
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

**Early Maximum-Likelihood Estimation as a model of audiovisual integration of speech**
Period: 11 Jun 2014
Tobias Andersen (Lecturer)
Department of Applied Mathematics and Computer Science
Cognitive Systems

**Related event**

_15th International Multisensory Research Forum_
11/06/2014 → 14/06/2014
Amsterdam, Netherlands
Activity: Talks and presentations › Conference presentations

**Weather Intelligence for Renewable Urban Areas**
Period: 2 Jun 2014 → 3 Jun 2014
Anna Maria Sempreviva (Organizer)
Meteorology
Department of Wind Energy
Department of Informatics and Mathematical Modeling

**Description**
COST WIRE and CITIES WORKSHOP,

Documents:
Participants & Programme 29052014
Links:
http://www.wire1002.ch/ (COST ACTION E1002 Weather Intelligence for Renewable Energy)

Related event

Weather Intelligence for Renewable Urban Areas
02/06/2014 → 03/06/2014
Roskilde, Denmark
Activity: Attending an event › Participating in or organising a conference

Introduction to applied statistics and R for PhD students (02935)
Period: 21 May 2014 → 9 Jun 2014
Anders Stockmarr (Lecturer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Related external organisation

Unknown external organisation
Activity: Talks and presentations › Conference presentations

Lecture
Period: Apr 2014
Gilles Guillot (Lecturer)
Department of Applied Mathematics and Computer Science
Cognitive Systems

Related event

PhD course 2014: Institute Gulbenkian
17/03/2014 → 22/11/2014
Lisbon, Portugal
Activity: Talks and presentations › Conference presentations

Seminar of the Department of Biology
Period: Apr 2014
Gilles Guillot (Participant)
Department of Applied Mathematics and Computer Science
Cognitive Systems

Description
Seminar at the University of Bern

Related event

Seminar of the Department of Biology
07/04/2014 → 10/04/2014
Berne, Switzerland
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Programming in R
Period: 30 Apr 2014 → 2 May 2014
Anders Stockmarr (Participant)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Description
Continuing education course lectured by Anders Stockmarr and Kasper Kristensen

**Related external organisation**

Amadeus Scandinavia  
Copenhagen, Denmark  
Activity: Other

**17th International Conference on Artificial Intelligence and Statistics**  
Sofie Therese Hansen (Participant)  
Department of Applied Mathematics and Computer Science  
Cognitive Systems

**Description**  
Poster at 17th International Conference on Artificial Intelligence and Statistics  
Documents:  
poster_SofieAISTATS

**Related event**

17th International Conference on Artificial Intelligence and Statistics  
22/04/2014 → 25/04/2014  
Reykjavik, Iceland  
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**National Academy Science Letters (Journal)**  
Period: 9 Apr 2014 → 13 May 2014  
Anders Stockmarr (Reviewer)  
Department of Applied Mathematics and Computer Science  
Statistics and Data Analysis

**Related journal**

National Academy Science Letters  
Local database  
Activity: Research › Peer review of manuscripts

**Programming in R**  
Anders Stockmarr (Lecturer)  
Department of Applied Mathematics and Computer Science  
Statistics and Data Analysis

**Description**  
3 day intensive course.

Course lectured by Anders Stockmarr and Kasper Kristensen.

**Related event**

Course: Programming in R  
24/03/2014 → 26/03/2014  
Lyngby, Denmark  
Activity: Other
Sleep spindle scoring: performance of humans versus machines
Period: 21 Mar 2014
Sabrina Lyngbye Wendt (Speaker)
Department of Electrical Engineering
Department of Applied Mathematics and Computer Science
Links:
http://www.clinph-journal.com/article/S1388-2457(14)50141-1/abstract
http://dx.doi.org/10.1016/S1388-2457(14)50141-1

Related event
30th International Congress of Clinical Neurophysiology
19/03/2014 → 23/03/2014
Berlin, Germany
Activity: Talks and presentations › Conference presentations

Inverse scattering: from formulation to application
Period: 10 Mar 2014
Mirza Karamehmedovic (Invited speaker)
Department of Applied Mathematics and Computer Science
Scientific Computing
Department of Physics
Neutrons and X-rays for Materials Physics

Related event
Lecture at International University of Sarajevo
10/03/2014 → …
Sarajevo, Bosnia and Herzegovina
Activity: Talks and presentations › Conference presentations

Programming in R
Period: 4 Feb 2014 → 6 Feb 2014
Anders Stockmarr (Lecturer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Description
3 day intensive course.

Course lectured by Anders Stockmarr and Kasper Kristensen.

Related event
Course: Programming in R
04/02/2014 → 06/02/2014
Denmark
Activity: Other

NordSecMob Network meeting 2014 (Event)
Period: 29 Jan 2014 → 30 Jan 2014
Flemming Stassen (Reviewer)
Department of Applied Mathematics and Computer Science
Embedded Systems Engineering

Description
NordSecMob Network meeting

27 selection meeting.

Related event

NordSecMob Network meeting 2014
29/01/2014 → …
Finland
Activity: Research › Peer review of manuscripts

Computational Models of Attention and Perception
Period: 28 Jan 2014
Tobias Andersen (Lecturer)
Department of Applied Mathematics and Computer Science
Cognitive Systems

Description
Neuroscience Seminar Series, Department of Experimental Psychology, University of Oxford

Related external organisation

Unknown external organisation
Activity: Talks and presentations › Conference presentations

Image reconstruction and analysis workshop
Period: 28 Jan 2014
Vedrana Andersen Dahl (Speaker)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Description
Two segmentation methods: 1) multiphase image segmentation using the deformable simplicial complex method, and 2) volumetric segmentation using mesh-based optimal graph search
Documents:
segmentation_slides

Related event

Image reconstruction and analysis workshop
28/01/2014 → 28/01/2014
Copenhagen, Denmark
Activity: Talks and presentations › Conference presentations

Symposium i Anvendt Statistik
Period: 28 Jan 2014
Anders Stockmarr (Speaker)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Description
IC3 and IC4 Trains at risk for Blocking Their Wheels
Documents:
Symposium i Anvendt Statistik 28012014 ANST version 2

Related event

Symposium i Anvendt Statistik 2014
27/01/2014 → 29/03/2014
Copenhagen, Denmark
Activity: Talks and presentations › Conference presentations

**National Academy Science Letters (Journal)**
Period: 25 Jan 2014 → 8 Feb 2014
Anders Stockmarr (Reviewer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

**Related journal**
**National Academy Science Letters**

Local database
Activity: Research › Peer review of manuscripts

**Adaptivity Framework: libpappadapt**
Period: 22 Jan 2014
Lars Frydendal Bonnichsen (Speaker)
Department of Applied Mathematics and Computer Science
Language-Based Technology
Embedded Systems Engineering

**Description**
Præsentation af adaptivity biblioteket libpappadapt udviklet i PaPP projektet

PaPP tutorial præsentation ved HiPEAC’14, se: http://www.hipeac.net/conference/vienna/tutorial/papp
Documents:
PaPP_Adaptivity_0.50_speed

**Related external organisation**
**Unknown external organisation**
Activity: Talks and presentations › Conference presentations

**NordSecMob Winter School on Innovation**
Period: 6 Jan 2014 → 11 Jan 2014
Flemming Stassen (Organizer)
Department of Applied Mathematics and Computer Science
Embedded Systems Engineering

**Description**
Winter school for NordSecMob students, PhDs and Academics

NordSecMob Winter School on Innovation
Documents:
NSM14WS - Programme

**Related event**
**NordSecMob Winter School on Innovation: Security and Mobile Computing**
06/01/2014 → 07/03/2014
Kgs. Lyngby, Denmark
Activity: Attending an event › Participating in or organising a conference

**Journal of the Royal Statistical Society (Journal)**
Period: 1 Jan 2014 → 31 Dec 2014
Gilles Guillot (Editor)
Department of Applied Mathematics and Computer Science
Cognitive Systems

Description
Associate Editor, series A

Related journal
Journal of the Royal Statistical Society

Local database
Activity: Research › Journal editor

Member of the Editorial Board Population Ecology (External organisation)
Period: 1 Jan 2014 → 31 Dec 2014
Gilles Guillot (Participant)
Department of Applied Mathematics and Computer Science
Cognitive Systems

Description
Body type: Journal

Related external organisation
Member of the Editorial Board Population Ecology
Activity: Membership › Board duties in companies, associations, or public organisations

Discrimination ability of the Energy score(s)
Period: 2013
Pierre Pinson (Lecturer)
Department of Electrical Engineering
Center for Electric Power and Energy
Department of Applied Mathematics and Computer Science

Description
Invited seminar at University of Heidelberg, Institute of Applied Mathematics, workshop on “Evaluation of multivariate probabilistic forecasts”

Related external organisation
Unknown external organisation
Activity: Talks and presentations › Conference presentations

Prevoir l’électricité produite par nos énergies renouvelables
Period: 2013
Pierre Pinson (Participant)
Department of Applied Mathematics and Computer Science
Department of Electrical Engineering
Center for Electric Power and Energy

Description
Broad-audience short letter (in French), for the French edition of Mathematics for Planet Earth (Mathematiques de la planete Terre), "Un jour, une breve", online at mpt2013.fr
Activity: Other
Rendre la consommation d'électricité plus flexible et contrôlable
Period: 2013
Pierre Pinson (Participant)
Department of Electrical Engineering
Center for Electric Power and Energy
Department of Applied Mathematics and Computer Science

Description
Broad-audience short letter (in French), for the French edition of Mathematics for Planet Earth (Mathematiques de la planète Terre), "Un jour, une breve", online at mpt2013.fr
Activity: Other

Renewable energy forecasts ought to be probabilistic!
Period: 2013
Pierre Pinson (Lecturer)
Department of Applied Mathematics and Computer Science
Department of Electrical Engineering
Center for Electric Power and Energy

Description
Invited lecture at "WIPFOR - Forecasting for the energy industry", Paris, France

Related external organisation
Unknown external organisation
Activity: Talks and presentations › Conference presentations

Renewables in electricity markets: Stochastic modelling and optimization
Period: 2013
Pierre Pinson (Lecturer)
Department of Applied Mathematics and Computer Science
Department of Electrical Engineering
Center for Electric Power and Energy

Description
Invited seminar at Wroclaw University of Technology, Poland

Related external organisation
Unknown external organisation
Activity: Talks and presentations › Conference presentations

Stochastic power generation from renewables: forecasting and optimization challenges for its optimal integration.
Period: 2013
Pierre Pinson (Lecturer)
Department of Applied Mathematics and Computer Science
Department of Electrical Engineering
Center for Electric Power and Energy

Description
Invited lecture at "Energy Systems Week", Isaac Newton Institute, University of Cambridge, UK

Related external organisation
Unknown external organisation
The value of probabilistic information for energy applications - from theory to reality.
Period: 2013
Pierre Pinson (Lecturer)
Department of Electrical Engineering
Center for Electric Power and Energy
Department of Applied Mathematics and Computer Science

Description
Invited lecture at the German Weather Service (DWD)

Related external organisation
Unknown external organisation

Which distance measure is best for training and testing protein pair potentials?
Period: 3 Dec 2013
Peter Røgen (Lecturer)
Department of Applied Mathematics and Computer Science
Scientific Computing

Documents:
abstractCarlsenRoegenKoehl2

Related event
Protein and RNA Structure Prediction Conference 2013
01/12/2013 → 05/12/2013
Playa del Carmen, Mexico

Arieties of cross-modal interactions and multi-sensory integration effects: Invited lecture at Otto-von-Guericke-Universität Magdeburg, Germany
Period: 29 Nov 2013
Tobias Andersen (Lecturer)
Department of Applied Mathematics and Computer Science
Cognitive Systems

Description
When two or more senses provide information about a single attribute of the environment the brain can integrate information across the senses in a process of multisensory integration. This effect is particularly striking when it influences categorical judgments as in the McGurk illusion where an acoustic speech segment, which is clearly perceived as /ba/ can be perceived as /da/ when dubbed onto a video of a talker saying /ga/. In addition to multisensory integration, the senses influence each other in a number of ways. Information in one sensory modality can, for example, guide attention in another sensory modality. In this presentation I will go through a number of studies of audiovisual perception with categorical judgments. I will discuss how experimental design and computational modelling can help tease apart some of the many varieties of multisensory integration and cross-modal interactions.

Related external organisation
Unknown external organisation

SIAM conference on Geometric and Physical Modeling
Period: 12 Nov 2013 → 14 Nov 2013
Toke Bjerge Nørbjerg (Participant)
Department of Applied Mathematics and Computer Science

Mathematics

Description
Participation in conference and contribution to poster session

SIAM conference on Geometric and Physical Modeling
Documents:
Poster_for_SIAM_conference
Links:
http://www.siam.org/meetings/gdspm13/ (Conference homepage)

Related event

SIAM conference on Geometric and Physical Modeling
11/11/2013 → 14/11/2013
Denver, Colorado, United States
Activity: Attending an event › Participating in or organising a conference

ASME 2013 Rail Transportation Division
Daniele Bigoni (Speaker)
Department of Applied Mathematics and Computer Science
Scientific Computing

Description
Participation and presentation of a paper by the title: "Modern uncertainty quantification methods in railroad vehicle dynamics".
Documents:
Bigoni, Engsig-Karup, True - 2013 - Modern Uncertainty Quantification Methods in Railroad Vehicle Dynamics

Related event

ASME 2013 Rail Transportation Division Fall Technical Conference
15/10/2013 → 17/10/2013
Altoona, PA, United States
Activity: Talks and presentations › Conference presentations

Design of Experiments
Period: Sep 2013 → …
Camilla Thyregod (Lecturer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Description
3 day course
Activity: Other

An Introduction to Multisensory Perception
Period: 9 Sep 2013
Tobias Andersen (Guest lecturer)
Department of Applied Mathematics and Computer Science
Cognitive Systems

Description
Guest-lecture.

Related external organisation
**Statistical Genetics**

**Period:** 2 Sep 2013 → 10 Dec 2013  
**Anders Stockmarr (Lecturer)**  
Department of Applied Mathematics and Computer Science  
Statistics and Data Analysis  
Center for Biological Sequence Analysis  

**Description**  
13 week course.

**Related event**

**Statistical Genetics**  
02/09/2013 → 10/12/2013  
Lyngby, Denmark  
Activity: Talks and presentations › Conference presentations

**Statistical Genetics (02586)**

**Period:** 2 Sep 2013 → 9 Dec 2013  
**Anders Stockmarr (Other)**  
Department of Applied Mathematics and Computer Science  
Statistics and Data Analysis  
Degree of recognition: Local  
Activity: Other

**Past explosive outbursts of entrapped carbon dioxide in salt mines provide a new perspective on the hazards of carbon dioxide.**

**Period:** 27 Aug 2013 → 29 Aug 2013  
**Frank Huess Hedlund (Speaker)**  
Department of Applied Mathematics and Computer Science  

**Description**  
ABSTRACT: This paper reports on a source of past carbon dioxide accidents which so far has only been sporadically mentioned in the literature. Violent and highly destructive outbursts of hundreds of tons of CO2 occurred regularly, if not routinely, in the now closed salt mines of the former DDR. The Menzengraben mine experienced an extreme outburst in 1953, possibly involving a several thousand tons of carbon dioxide. This source of accidents fills an important gap in the available carbon dioxide accident history and may provide a unique empirical perspective on the hazards of handling very large amounts of CO2

**Related event**

**4th International Conference on Risk Analysis and Crisis Response: Intelligent Systems and Decision Making for Risk Analysis and Crisis Response**  
27/08/2013 → 29/08/2013  
Istanbul, Turkey  
Activity: Talks and presentations › Conference presentations


**Period:** 27 Aug 2013 → 29 Aug 2013  
**Frank Huess Hedlund (Speaker)**  
Department of Applied Mathematics and Computer Science
Abstract: The paper examines recent evidence from Denmark and abroad with climate change projects that aim to reduce global carbon dioxide emissions by converting coal-fired thermal power plants to solid biomass fuel. The paper argues that projects appear to be pursued narrow-mindedly with insufficient attention paid to safety and points to evidence of media-shifting - that the 'resolution' of a problem within the environmental domain creates a new problem in the workplace safety domain. The paper argues that biomass pellets qualify as an emerging risk for which proper control strategies have yet to be developed.

Co-author: John Astad, Combustible Dust Institute, USA

Related event

4th International Conference on Risk Analysis and Crisis Response: Intelligent Systems and Decision Making for Risk Analysis and Crisis Response
27/08/2013 → 29/08/2013
Istanbul, Turkey
Activity: Talks and presentations › Conference presentations

23rd Symposium on Dynamics of Vehicles on Roads and Tracks (IAVSD 2013)
Period: 19 Aug 2013 → 23 Aug 2013
Daniele Bigoni (Speaker)
Department of Applied Mathematics and Computer Science
Scientific Computing

Description
Participation and presentation of a paper by with title "SENSITIVITY ANALYSIS OF THE CRITICAL SPEED IN RAILWAY VEHICLE DYNAMICS".
Documents:
Bigoni, True, Engsig-karup - 2013 - Sensitivity Analysis of the critical speed in railway vehicle dynamics

Related event

23rd Symposium on Dynamics of Vehicles on Roads and Tracks (IAVSD 2013)
19/08/2013 → 23/08/2013
Qingdao, China
Activity: Talks and presentations › Conference presentations

Estimating the phylogenetic history for two related populations A Hidden Markov Model approach to finding phylogenetic trees: A Hidden Markov Model approach to finding phylogenetic trees
Period: Jul 2013
Gilles Guillot (Internal examiner)
Cognitive Systems
Department of Applied Mathematics and Computer Science

Description
Master thesis
Activity: Examinations and supervision › Internal examination

21st Annual International Conference on Intelligent Systems for Molecular Biology | 12th European Conference on Computational Biology
Period: 19 Jul 2013 → 23 Jul 2013
Martin Carlsen (Participant)
Department of Applied Mathematics and Computer Science
Scientific Computing

Description
Poster: On optimal metric training and testing of protein residue pair potentials

Related event
21st Annual International Conference on Intelligent Systems for Molecular Biology | 12th European Conference on Computational Biology
19/07/2013 → 23/07/2013
Berlin, Germany
Activity: Attending an event › Participating in or organising a conference

**Investigating the use of stochastic forecast for RTC of urban drainage systems**

Period: 25 Jun 2013
Roland Löwe (Lecturer)
Department of Applied Mathematics and Computer Science
Dynamical Systems
Urban Water Engineering

**Related event**

8th International Conference on Planning and Technologies for Sustainable Urban Water Management
23/06/2013 → 27/06/2013
Lyon, France
Activity: Talks and presentations › Conference presentations

**Universiti Teknologi Malaysia**

Period: 30 May 2013 → 29 Aug 2013
Francesc/François Antón Castro (Visiting researcher)
Department of Informatics and Mathematical Modeling
National Space Institute
Geodesy

**Description**
Visiting Full Professor

3D GIS Research Group at the Faculty of Geoinformation and Real Estate, UTM.
Activity: Visiting an external institution › Visiting another research institution

**Light Scattering**

Period: 27 May 2013 → 28 May 2013
Mirza Karamahmedovic (Participant)
Department of Applied Mathematics and Computer Science
Scientific Computing
Department of Physics

**Description**
1) Karamehmedović, M., A sparse numerical model for optical characterisation of nanoparticles on rough surfaces
2) Thomas, S., Matyssek, C., Hergert, W., Kiewidt, L., Karamahmedovic, M., and Wriedt, T., Optimization of plasmonic nanostructures excited by light or electron beams: A Generalized Multiparticle Mie Solution study

**Related event**

Light Scattering: Simulation and Inversion
27/05/2013 → 28/05/2013
Bremen, Germany
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**Emerging risks from fires and explosions in solid biofuels - some evidence from Denmark: COWI/DTU**

Period: 21 May 2013
Frank Huess Hedlund (Speaker)
Related event

5th iNTeg-Risk Conference: Risk Screening - Horizon 2020: From iNTeg-Risk to the E2R2 - European Emerging Risk Radar
21/05/2013 → 22/05/2013
Stuttgart, Germany
Activity: Talks and presentations › Conference presentations

University of California at Davis
Period: 21 Apr 2013 → 29 Apr 2013
Martin Carlsen (Visiting researcher)
Scientific Computing
Department of Applied Mathematics and Computer Science
Description
Forskningsophold i udlandet: Vejledelse af professor Patrice Koehl
Activity: Visiting an external institution › Visiting another research institution

Uncertainty in Reservoir Characterization
Period: 18 Apr 2013 → 19 Apr 2013
Daniele Bigoni (Speaker)
Department of Applied Mathematics and Computer Science
Scientific Computing
Description
Presentation with title: "Spectral Methods for Uncertainty Quantification".
Related event

Uncertainty in Reservoir Characterization
18/04/2013 → 19/04/2013
Kgs. Lyngby, Denmark
Activity: Talks and presentations › Conference presentations

Danvak Dagen 2013
Period: 10 Apr 2013
Tobias Gybel Hovgaard (Invited speaker)
Department of Applied Mathematics and Computer Science
Scientific Computing
Department of Electrical Engineering
Automation and Control
Description
Presentation given at "Danvak Dagen 2013" Invited talk after receiving "Prof. P.Ole Fangers Forskningslegat 2013".
Documents:
PDF
Related event

Danvak Dagen 2013
10/04/2013 → …
København, Denmark
Activity: Talks and presentations › Conference presentations
PMWS development in pigs from affected farms in Spain and Denmark
Period: 18 Mar 2013
Anders Stockmarr (Invited speaker)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis
Documents:
Hangzhou 18012013 ANST

Related event

BIT's 5th Annual World Congress of Vaccine
18/03/2013 → 20/03/2013
Hangzhou, China
Activity: Talks and presentations › Conference presentations

Ude af øje, ude af sind, ude af kontrol: -er det sådan vores afløbssystemer skal fungere?
Period: 13 Mar 2013
Roland Löwe (Lecturer)
Department of Applied Mathematics and Computer Science
Dynamical Systems
Urban Water Engineering

Related event

Ude af øje, ude af sind, ude af kontrol: - er det sådan vores afløbssystemer skal fungere?
13/03/2013 → …
Aalborg, Denmark
Activity: Talks and presentations › Conference presentations

Stochastic runoff forecasting and real time control of urban drainage systems
Period: 11 Mar 2013
Roland Löwe (Lecturer)
Department of Applied Mathematics and Computer Science
Dynamical Systems
Urban Water Engineering

Related event

Stochastic runoff forecasting and real time control of urban drainage systems
11/03/2013 → …
Lyngby, Denmark
Activity: Talks and presentations › Conference presentations

Armax and Greybox Modeling in Water Systems
Period: 1 Mar 2013
Roland Löwe (Lecturer)
Dynamical Systems
Department of Applied Mathematics and Computer Science
Department of Environmental Engineering

Description
Lecture in Armax and Greybox Modeling as part of course 12342
Activity: Other
Time Series Analysis
Period: 7 Feb 2013 → 16 May 2013
Anders Stockmarr (Lecturer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Related external organisation

Unknown external organisation
Activity: Talks and presentations › Conference presentations

Stochastic runoff forecasting and real time control of urban drainage systems
Period: 31 Jan 2013
Roland Löwe (Lecturer)
Department of Informatics and Mathematical Modeling
Mathematical Statistics
Department of Mathematics
Urban Water Engineering
Department of Environmental Engineering
Links:
http://www.forskningsplatformen-vand.dk/Documents/Annual%20meeting%202013/index.html

Related event

7th Annual Meeting of the Danish Water Research and Innovation Platform
31/01/2013 → 31/01/2013
Kgs. Lyngby, Denmark
Activity: Talks and presentations › Conference presentations

Symposium i Anvendt Statistik 2013
Period: 28 Jan 2013 → 29 Jan 2013
Anders Stockmarr (Speaker)
Statistics and Data Analysis
Department of Applied Mathematics and Computer Science

Description
PMWS development in pigs from affected farms in Spain and Denmark

conference participation
Documents:
PMWS development in pigs from affected farms in Spain and Denmark

Related event

Symposium i Anvendt Statistik 2013
28/01/2013 → 29/01/2013
Århus, Denmark
Activity: Talks and presentations › Conference presentations

NordSecMob Network meeting 2013 (Event)
Period: 24 Jan 2013 → 25 Jan 2013
Flemming Stassen (Reviewer)
Department of Applied Mathematics and Computer Science
Embedded Systems Engineering

**Description**
NordSecMob Network meeting

25 selection meeting

**Related event**

*NordSecMob Network meeting 2013*
24/01/2013 → …
Finland
Activity: Research › Peer review of manuscripts

**Editorial Board, Journal of Statistical and Econometric Methods (Journal)**
Period: 2012 → …
Gilles Guillot (Editor)
Department of Informatics and Mathematical Modeling
Mathematical Statistics

**Related journal**

**Editorial Board, Journal of Statistical and Econometric Methods**
Local database
Activity: Research › Journal editor

**ICES - Baltic Fisheries Assessment Working Group - WGBFAS (External organisation)**
Period: 2012 → …
Anders Nielsen (Participant)
National Institute of Aquatic Resources
Section for Population Ecology and Genetics
Department of Informatics and Mathematical Modeling
Degree of recognition: International

**Related external organisation**

**ICES - Baltic Fisheries Assessment Working Group - WGBFAS**
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

**ICES - Inter Benchmark Protocol for Pandalus in Skagerrak and Norwegian Deep - IBPPand (External organisation)**
Period: 2012 → …
Anders Nielsen (Participant)
National Institute of Aquatic Resources
Section for Population Ecology and Genetics
Department of Informatics and Mathematical Modeling
Degree of recognition: International

**Related external organisation**

**ICES - Inter Benchmark Protocol for Pandalus in Skagerrak and Norwegian Deep - IBPPand**
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

**ICES - Joint NAFO/ICES Pandalus Assessment Working Group - NIPAG (External organisation)**
Period: 2012 → …
Anders Nielsen (Participant)
National Institute of Aquatic Resources
Section for Population Ecology and Genetics
Department of Informatics and Mathematical Modeling
Degree of recognition: International

Related external organisation
ICES - Joint NAFO/ICES Pandalus Assessment Working Group - NIPAG
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

ICES - Symposium on “Forage fish interactions: Creating the tools for ecosystem based management of marine resources” (External organisation)
Period: 2012 → …
Anders Nielsen (Participant)
National Institute of Aquatic Resources
Section for Population Ecology and Genetics
Department of Informatics and Mathematical Modeling
Degree of recognition: International

Related external organisation
ICES - Symposium on “Forage fish interactions: Creating the tools for ecosystem based management of marine resources”
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

Journal of the Royal Statistical Society, series A (Journal)
Period: 2012 → 2014
Gilles Guillot (Editor)
Department of Applied Mathematics and Computer Science
Cognitive Systems

Related journal
Journal of the Royal Statistical Society, series A
Local database
Activity: Research › Journal editor

Journal of the Royal Statistical Society, Series A (Journal)
Period: 2012 → …
Gilles Guillot (Editor)
Department of Informatics and Mathematical Modeling
Mathematical Statistics

Related journal
Journal of the Royal Statistical Society, Series A
1467-985X
Scopus rating (2016): CiteScore 2.11 SJR 1.368 SNIP 1.69, Web of Science (2018): Indexed yes
Local database
Activity: Research › Journal editor

Web-based wind power forecasting competition 2012 - Wind Forecasting
Period: 2012
Pierre Pinson (Organizer)
Department of Applied Mathematics and Computer Science
Department of Electrical Engineering
Center for Electric Power and Energy

Description
Global Energy Forecasting competition

Web-based wind power forecasting competition hosted by Kaggle.com (150 participants worldwide)

Related event
Web-based wind power forecasting competition 2012 - Wind Forecasting: A wind power forecasting problem: predicting hourly power generation up to 48 hours ahead at 7 wind farms
06/09/2012 → 31/10/2012
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Spatial Statistics Conference 2012
Period: Dec 2012
Gilles Guillot (Participant)

Department of Informatics and Mathematical Modeling
Mathematical Statistics

Description
Conference talk

Related event
Spatial Statistics Conference 2012
13/12/2012 → 15/12/2012
Miami, United States
Activity: Attending an event › Participating in or organising a conference

New Directions in Cryptography
Period: 7 Dec 2012
Christian Rechberger (Panel member)

Department of Mathematics
Discrete mathematics

Related event
International View of the State-of-the-Art of Cryptography and Security and its Use in Practice
06/12/2012 → 07/12/2012
Beijing, China
Activity: Talks and presentations › Conference presentations

New meet-in-the-middle attacks in symmetric cryptanalysis
Period: 30 Nov 2012
Christian Rechberger (Keynote speaker)

Department of Mathematics
Discrete mathematics

Related event
15th Annual International Conference on Information Security and Cryptology
28/11/2012 → 30/11/2012
Seoul, Korea, Republic of
Activity: Talks and presentations › Conference presentations
Assessment Committee for a post.doc. position (External organisation)
Period: 21 Nov 2012 → 21 Dec 2012
Anne Elisabeth Haxthausen (Participant)
Department of Informatics and Mathematical Modeling
Computer Science and Engineering
Software Engineering

Related external organisation
Assessment Committee for a post.doc. position
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

PRINCE - A Low-latency Block Cipher for Pervasive Computing Applications
Period: 21 Nov 2012
Christian Rechberger (Invited speaker)
Department of Mathematics
Discrete mathematics

Related event
Workshop on Cryptography for the Internet of Things
20/11/2012 → 21/11/2012
Antwerp, Belgium
Activity: Talks and presentations › Conference presentations

Do provisions to advance chemical facility safety also advance chemical facility security?: An analysis of possible synergies
Period: 8 Nov 2012 → 9 Nov 2012
Frank Huess Hedlund (Invited speaker)
Department of Informatics and Mathematical Modeling
Mathematical Statistics

Description
More than 200 participants from 54 countries attended the event, which was organised by Poland and the OPCW in cooperation with the G8 Global Partnership and international partners.
Documents:
Synergy, safety, security
Links:
http://www.opcw.org/international-meeting-on-chemical-safety-and-security/ (Website)

Related event
International Meeting on Chemical Safety and Security
08/11/2012 → 09/11/2012
Tarnów, Poland
Activity: Talks and presentations › Conference presentations

Statistikseminar
Period: 6 Nov 2012
Anders Stockmarr (Speaker)
Statistics and Data Analysis
Department of Applied Mathematics and Computer Science

Description
Regressions modeller – Hvad regresserer vi på og hvorfor? (in danish)
Documents:
Regressions modeller – Hvad regresserer vi på og hvorfor?
Comparison of Classical and Modern Uncertainty Qualification Methods for the Calculation of Critical Speeds in Railway Vehicle Dynamics

Period: 5 Nov 2012
Daniele Bigoni (Speaker)

Department of Informatics and Mathematical Modeling
Scientific Computing
Degree of recognition: International

Mini Conference on Vehicle system dynamics, identification and anomalies

05/11/2012 → 07/11/2012
Budapest, Hungary
Activity: Talks and presentations › Conference presentations

Related-key and Biclique cryptanalysis of AES

Period: 18 Oct 2012
Christian Rechberger (Invited speaker)

Department of Mathematics
Discrete mathematics

ECRYPT II AES Day 2012

18/10/2012 → …
Brugges, Belgium
Activity: Talks and presentations › Conference presentations

7th Nordic Conference on Human-Computer Interaction (NordiCHI)

Camilla Birgitte Falk Jensen (Participant)

Department of Informatics and Mathematical Modeling
Cognitive Systems

7th Nordic Conference on Human-Computer Interaction (NordiCHI)

14/10/2012 → 17/10/2012
Copenhagen, Denmark
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Hvad har vi lært af ulykkerne?

Period: 12 Oct 2012
Frank Huess Hedlund (Lecturer)

Department of Applied Mathematics and Computer Science

Description
IDA, RISK - Selskab for risikovurdering. The Danish Society of Engineers, IDA

Related event
Seminar i RISK: Risikostyring som værkøj: Hvad har vi lært, og hvordan kommer vi videre?
23/10/2012 → …
Copenhagen, Denmark
Activity: Talks and presentations › Conference presentations

**Risikoanalyse og worst-case scenarier**
Period: 30 Sep 2012
Frank Huess Hedlund (Lecturer)
Department of Applied Mathematics and Computer Science

**Description**
Oplæg på DTU masteruddannelse i miljø-og arbejdsmiljøledelse

**Related external organisation**
Technical University of Denmark
Kgs. Lyngby, Denmark
Activity: Other

**Yet another cryptanalysis of the AES**
Period: 27 Sep 2012
Christian Rechberger (Invited speaker)
Department of Mathematics
Discrete mathematics

**Related event**
6th Yet Another Conference on Cryptography 2012
24/09/2012 → 28/09/2012
Porquerolles Island, France
Activity: Talks and presentations › Conference presentations

**The SHA-3 Competition**
Period: 21 Sep 2012
Christian Rechberger (Keynote speaker)
Department of Mathematics
Discrete mathematics

**Related event**
Bulgarian Cryptography Days
20/09/2012 → 21/09/2012
Sofia, Bulgaria
Activity: Talks and presentations › Conference presentations

**On the Development of a Parallel Domain Decomposition Technique for Simulation of Nonlinear Water Waves**
Period: 19 Sep 2012 → 21 Sep 2012
Stefan Lemvig Glimberg (Speaker)
Department of Informatics and Mathematical Modeling
Scientific Computing

**Description**
Presentation given at conference.

**Related event**
Facing the Multicore-Challenge III
19/09/2012 → 21/09/2012
Stuttgart, Germany
Activity: Talks and presentations › Conference presentations

**Emotional Brain**
Period: 17 Sep 2012 → 21 Sep 2012
Camilla Birgitte Falk Jensen (Participant)
Department of Informatics and Mathematical Modeling
Cognitive Systems

**Related event**
**Emotional Brain**
17/09/2012 → 21/09/2012
København, Denmark
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**Time Series Analysis**
Period: 7 Sep 2012 → 7 Dec 2012
Anders Stockmarr (Lecturer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

**Related event**
**Time Series Analysis**
07/09/2012 → 07/12/2012
Denmark
Activity: Other

**Katastrofer, worst case - hvorfor sker de? Er det en blind plet fra evolutionens side? Hvad kan vi gøre?**
Period: 29 Aug 2012
Frank Huess Hedlund (Lecturer)
Department of Applied Mathematics and Computer Science
Links:
http://www.mssm.dk/side/program-og-pr%C3%A6sentationer-2012

**Related event**
**Maritim Sikkerhed, Sundhed og Miljø (2012)**
29/08/2012 → 31/08/2012
Nyborg, Denmark
Activity: Talks and presentations › Conference presentations

**IEEE Engineering in Medicine and Biology Society**
Camilla Birgitte Falk Jensen (Speaker)
Department of Informatics and Mathematical Modeling
Cognitive Systems

**Related event**
**IEEE Engineering in Medicine and Biology Society**
27/08/2012 → 30/11/2012
San Diego, United States
Activity: Talks and presentations › Conference presentations
BIT Circus 2012
Daniele Bigoni (Participant)
Scientific Computing
Department of Informatics and Mathematical Modeling
Description
Participation to the BIT Circus 2012 held in DTU. Talk on "Uncertainty quantification of critical speed for railway vehicle dynamics" by D. Bigoni, A.P. Engsig-Karup, H.True, J.S. Hesthaven.
Documents:
Uncertainty quantification of critical speed for railway vehicle dynamics

Related event
BIT Circus 2012: Numerical Mathematics and Computational Science
23/08/2012 → 24/08/2012
Lyngby, Denmark
Activity: Attending an event › Participating in or organising a conference

On the Dynamics of the Fermi-Bose model
Magnus Ögren (Lecturer)
Dynamical systems
Description
In this talk we formulate and prove results for the exponential matrix representing the dynamics of the Fermi-Bose model in an undepleted bosonic field approximation. A recent application of this model is molecular dimmers dissociating into its atomic compounds. The problem is solved in D spatial dimensions by dividing the system matrix into blocks with generalizations of Hankel matrices, here referred to as D-block Hankel-matrices. The method is practically useful for treating large systems, i.e. dense computational grids or higher spatial dimensions, either on a single standard computer or a cluster. In particular the results can be used for studies of threedimensional physical systems of arbitrary geometry. We illustrate the generality of our approach by giving numerical results for the dynamics of Glauber type atomic pair correlation functions for a non-isotropic three-dimensional harmonically trapped molecular Bose-Einstein condensate.
Documents:

Related event
BIT Circus 2012: Numerical Mathematics and Computational Science
23/08/2012 → 24/08/2012
Lyngby, Denmark
Activity: Talks and presentations › Conference presentations

Cryptanalytic ideas for SHA and AES
Period: 11 Aug 2012
Christian Rechberger (Keynote speaker)
Department of Mathematics
Discrete mathematics
Related event
Chinacrypt 2012
09/08/2012 → 12/08/2012
Hefei, China
Activity: Talks and presentations › Conference presentations

Associate Editor, Journal of the Royal Statistical Society, Series A (External organisation)
Period: Jun 2012 → …
Gilles Guillot (Participant)
Department of Informatics and Mathematical Modeling
Mathematical Statistics
Degree of recognition: International

Related external organisation

Associate Editor, Journal of the Royal Statistical Society, Series A
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

24th Nordic Conference in Mathematical Statistics
Period: 10 Jun 2012 → 14 Jun 2012
Anders Stockmarr (Participant)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Description
poster presenter
conference participation
Documents:
Detection of Dairy Herds at Risk for Changing Salmonella Dublin status

Related event

24th Nordic Conference in Mathematical Statistics
10/06/2012 → 14/06/2012
Umeå, Sweden
Activity: Attending an event › Participating in or organising a conference

6th ACM/IEEE International Symposium on Networks-on-Chip
Period: 9 May 2012 → 11 May 2012
Flemming Stassen (Organizer)
Department of Applied Mathematics and Computer Science
Embedded Systems Engineering

Related event

6th ACM/IEEE International Symposium on Networks-on-Chip
09/05/2012 → 11/05/2012
Lyngby, Denmark
Activity: Attending an event › Participating in or organising a conference

Danish Railway Conference 2012
Period: 9 May 2012
Anne Elisabeth Haxthausen (Participant)
Department of Informatics and Mathematical Modeling
Computer Science and Engineering
Software Engineering

Description
Poster presentation at a DTU stand for the RobustRailS research project.

Related event

Danish Railway Conference 2012
09/05/2012 → …
Copenhagen, Denmark
Activity: Attending an event › Participating in or organising a conference

**18th IEEE International Symposium on Asynchronous Circuits and Systems**
Period: 7 May 2012 → 9 May 2012
Flemming Stassen (Organizer)
Department of Informatics and Mathematical Modeling
Computer Science and Engineering
Embedded Systems Engineering

**Description**
Finance chair

ASYNC 2012 - 18th IEEE International Symposium on Asynchronous Circuits and Systems

**Related event**

**18th IEEE International Symposium on Asynchronous Circuits and Systems**
07/05/2012 → 09/05/2012
Kgs. Lyngby, Denmark
Activity: Attending an event › Participating in or organising a conference

How do university students solve problems in vector calculus? Evidence from eye tracking.
Period: 2 May 2012 → 4 May 2012
Magnus Ögren (Lecturer)
Dynamical systems
Documents:

**Related event**

**The Scandinavian Workshop on Applied Eye Tracking**
02/05/2012 → 04/05/2012
Stockholm, Sweden
Activity: Talks and presentations › Conference presentations

**Uncertainty Quantification for High-Performance Computing Workshop**
Period: 2 May 2012 → 4 May 2012
Daniele Bigoni (Participant)
Scientific Computing
Department of Informatics and Mathematical Modeling

**Description**
Participation to the workshop and poster presentation with title: "Uncertainty Quantification on High Speed Railway Dynamics" by D. Bigoni, A.P. Engsig-Karup, H. True.
Documents:
Uncertainty Quantification on High Speed Railway Dynamics

**Related event**

**Uncertainty Quantification for High-Performance Computing Workshop**
02/05/2012 → 04/05/2012
Oak Ridge, TN, United States
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**Når planlægningen fejler**
Period: 19 Apr 2012
Frank Huess Hedlund (Lecturer)
Department of Applied Mathematics and Computer Science
Documents:
Program

Related event

Kompetenceudviklingsdage på Kastellet (4-2012): TEMA - netværk og uhåndgribelige risici
18/04/2012 → 19/04/2012
København, Denmark
Activity: Talks and presentations › Conference presentations

Conference on European Rail Traffic Management System
Period: 17 Apr 2012
Anne Elisabeth Haxthausen (Participant)
Department of Informatics and Mathematical Modeling
Computer Science and Engineering
Software Engineering

Description
Invited by Banedanmark
An ERTMS conference in Copenhagen

Related event

Conference on European Rail Traffic Management System
16/04/2012 → 17/04/2012
Copenhagen, Denmark
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Narrow-Bicliques: Cryptanalysis of Full IDEA
Period: 17 Apr 2012
Christian Rechberger (Speaker)
Department of Mathematics
Discrete mathematics

Related event

EUROCRYPT 2012
15/04/2012 → 19/04/2012
Cambridge, United Kingdom
Activity: Talks and presentations › Conference presentations

Raingain Workshop
Period: 16 Apr 2012
Roland Löwe (Participant)
Department of Informatics and Mathematical Modeling
Mathematical Statistics

Description
Participation in discussion on integration of radar rainfall and raingauge measurements
Workshop on finescale radar rainfall measurements in urban areas
Links:

Related event
Raingain Workshop
16/04/2012 → …
Leuven, Belgium
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Inverse Problems and Numerical Methods in Applications
Period: 8 Mar 2012 → 9 Mar 2012
Mirza Karamehmedovic (Organizer)
Department of Applied Mathematics and Computer Science
Scientific Computing
Department of Physics
Documents:
Book_of_Abstracts

Related event
Inverse Problems and Numerical Methods in Applications
08/03/2012 → 09/03/2012
Bremen, Germany
Activity: Attending an event › Participating in or organising a conference

Time Series Analysis
Period: 2 Feb 2012 → 3 May 2012
Anders Stockmarr (Lecturer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Related event
Time Series Analysis
02/02/2012 → 03/05/2012
Kgs. Lyngby, Denmark
Activity: Other

NordSecMob Network meeting 2012 (Event)
Period: 1 Feb 2012 → 2 Feb 2012
Flemming Stassen (Reviewer)
Department of Applied Mathematics and Computer Science
Embedded Systems Engineering

Description
NordSecMob Network meeting
23 selection meeting

Related event
NordSecMob Network meeting 2012
01/02/2012 → 02/02/2012
Finland
Activity: Research › Peer review of manuscripts

34th Symposium i Anvendt Statistik 2012
Anders Stockmarr (Speaker)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Description
conference participation
Documents:
Detection of Dairy Herds at risk for changing Salmonella Dublin status

Related event

34th Symposium i Anvendt Statistik 2012
01/01/2012 → 25/01/2012
Copenhagen, Denmark
Activity: Talks and presentations › Conference presentations

Statistikseminar
Period: 16 Jan 2012
Anders Stockmarr (Speaker)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Description
Optimal combinations of acute phase proteins for detecting infectious disease in pigs

seminar participation
Documents:
Optimal combinations of acute phase proteins for detecting infectious disease in pigs

Related event

Statistikseminar
16/01/2012 → 16/01/2012
Copenhagen, Denmark
Activity: Other

Population Ecology (External organisation)
Period: 1 Jan 2012 → 31 Dec 2012
Gilles Guillot (Participant)
Department of Informatics and Mathematical Modeling
Mathematical Statistics

Description
Member of the Editorial Board

Editing scientific articles
Degree of recognition: International

Related external organisation

Population Ecology
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

The Geneland program
Period: 1 Jan 2012 → 31 Dec 2012
Gilles Guillot (Participant)
Department of Informatics and Mathematical Modeling
Mathematical Statistics

Description
Maintenance of R package
The Open Statistics and Probability Journal (External organisation)
Period: 1 Jan 2012 → 31 Dec 2100
Gilles Guillot (Participant)
Department of Informatics and Mathematical Modeling
Mathematical Statistics
Description
Member of the editorial board
Degree of recognition: International
Related external organisation
The Open Statistics and Probability Journal
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

IEEE Transactions on Power Systems (Journal)
Period: 2011 → …
Pierre Pinson (Editor)
Department of Electrical Engineering
Center for Electric Power and Energy
Department of Applied Mathematics and Computer Science
Related journal
IEEE Transactions on Power Systems
0885-8950
Web of Science (2018): Indexed yes
Central database
Activity: Research › Journal editor

Population Ecology (Journal)
Period: 2011 → 2012
Gilles Guillot (Reviewer)
Department of Informatics and Mathematical Modeling
Mathematical Statistics
Description
Population Ecology
Related journal
Population Ecology
1438-3896
Scopus rating (2016): CiteScore 1.68 SJR 0.921 SNIP 0.961, Web of Science (2018): Indexed yes
Local database
Activity: Research › Journal editor

Expert Workshop on Risk Modelling using R
Period: 21 Nov 2011 → 22 Nov 2011
Anders Stockmarr (Participant)
Statistics and Data Analysis
Department of Applied Mathematics and Computer Science
Description
Bundesinstitut für Risikobewertung (BfR)

workshop

Related event

Expert Workshop on Risk Modelling using R
Berlin, Germany
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Workshop Integrale Abflusssteuerung DWA-AG ES-2.4
Period: 14 Nov 2011
Roland Löwe (Speaker)
Department of Informatics and Mathematical Modeling
Mathematical Statistics

Related event

Workshop Integrale Abflusssteuerung DWA-AG ES-2.4
14/11/2011 → 14/11/2011
Köln, Germany
Activity: Talks and presentations › Conference presentations

Regularization in Isogeometric Shape Optimization for Fluids: Poster presented at SIAM Conference on Geometric and Physical Modeling
Peter Nørtoft (Speaker)
Department of Mathematics

Description
The goal in shape optimization for fluids is to find an optimal boundary of the flow domain that minimizes a prescribed objective, while satisfying suitable constraints. Inclusion of an artificial objective term is often needed to avoid inappropriate boundary parametrizations and thereby regularize the optimization problem. This work uses isogeometric analysis as framework for the numerical method and discusses various regularizations by comparing their effects in different examples.
Place: Orlando, Florida, USA

Related external organisation

Unknown external organisation
Activity: Talks and presentations › Conference presentations

SIAM Conference on Geometric and Physical Modeling
Jens Gravesen (Participant)
Department of Mathematics

Description
Regularization in Isogeometric Shape Optimization for Fluids: Poster presented at SIAM Conference on Geometric and Physical Modeling

The goal in shape optimization for fluids is to find an optimal boundary of the flow domain that minimizes a prescribed objective, while satisfying suitable constraints. Inclusion of an artificial objective term is often needed to avoid inappropriate boundary parametrizations and thereby regularize the optimization problem. This work uses isogeometric analysis as framework for the numerical method and discusses various regularizations by comparing their effects in different examples.
Place: Orlando, Florida, USA

Related event
An Introduction to Formal Methods for Software Development  
Period: 7 Oct 2011  
Anne Elisabeth Haxthausen (Consultant)  
Department of Informatics and Mathematical Modeling  

Description  
Note: This lecture was given as a part of the Public Sector Consultancy service offered by the Technical University of Denmark.

Related external organisation  
Banedanmark, Copenhagen  
Activity: Public and private sector consultancy › Public sector consultancy

A Model-based Tool Set for Simulation and Verification of Relay Interlocking Systems  
Period: 27 Sep 2011  
Anne Elisabeth Haxthausen (Speaker)  
Department of Informatics and Mathematical Modeling  

Related external organisation  
The Danish Society of Engineers, IDA  
Kalvebod Brygge 31-33, DK-1780, Copenhagen V, Denmark  
Activity: Talks and presentations › Talks and presentations in private or public companies and organisations

Isogeometric Analysis of Sound Propagation through Flow in 2-Dimensional Ducts: Talk given at the fall school "Shapes, Geometry and Algebra (SAGA)"  
Period: 27 Sep 2011 → 30 Sep 2011  
Peter Nørtoft (Speaker)  
Department of Mathematics  

Description  
The aim of this work is to use isogeometric analysis, a unification of finite element methods (FEM) and computer aided design (CAD), to solve the coupled flow-acoustic problem that governs the propagation of sound through flow in ducts. The background flow in the duct is governed by the steady-state, incompressible Navier-Stokes equation, while the sound propagation is governed by the advected Helmholtz equation. The crux of isogeometric analysis is to approximate the flow fields and the acoustic pressure by B-splines. The accurate geometry representation and high degree of continuity of the state variables are some of the method's advantages. We firstly review the concepts of how to apply isogeometric analysis to the coupled flow-acoustic problem, and we then report on the effects of the flow field and of the duct geometry on the acoustic response.

Related external organisation  
Unknown external organisation  
Activity: Talks and presentations › Conference presentations

SAGA Fall School 2011  
Period: 27 Sep 2011 → 30 Sep 2011  
Jens Gravesen (Participant)  
Department of Mathematics  

Description  
Isogeometric Analysis of Sound Propagation through Flow in 2-Dimensional Ducts: Talk given at the fall school "Shapes, Geometry and Algebra (SAGA)"

The aim of this work is to use isogeometric analysis, a unification of finite element methods (FEM) and computer aided
design (CAD), to solve the coupled flow-acoustic problem that governs the propagation of sound through flow in ducts. The background flow in the duct is governed by the steady-state, incompressible Navier-Stokes equation, while the sound propagation is governed by the advected Helmholtz equation. The crux of isogeometric analysis is to approximate the flow fields and the acoustic pressure by B-splines. The accurate geometry representation and high degree of continuity of the state variables are some of the method's advantages. We firstly review the concepts of how to apply isogeometric analysis to the coupled flow-acoustic problem, and we then report on the effects of the flow field and of the duct geometry on the acoustic response.

Related event

**SAGA Fall School 2011: Shapes, Geometry and Algebra**
Vilnius, Lithuania
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**Time Series Analysis (TSA); 02417**
Period: 2 Sep 2011 → 2 Dec 2011
Anders Stockmarr (Lecturer)
Department of Applied Mathematics and Computer Science
Statistics and Data Analysis

Related event

**Time Series Analysis**
02/09/2011 → 02/12/2011
Kgs. Lyngby, Denmark
Activity: Other

**Risikoanalyse og worst-case scenarier**
Period: 27 Aug 2011
Frank Huess Hedlund (Speaker)
Department of Applied Mathematics and Computer Science

Description
Oplæg på DTU masteruddannelse i miljø-og arbejdsmiljøledelse

Related external organisation

**Technical University of Denmark**
Kgs. Lyngby, Denmark
Activity: Other

**GPU Computing Today and Tomorrow: A high performance GPU-based framework for PDE prototyping**
Period: 18 Aug 2011
Stefan Lemvig Glimberg (Speaker)
Department of Informatics and Mathematical Modeling
Scientific Computing

Description
Place: DTU Informatics

Related external organisation

**Unknown external organisation**
Activity: Talks and presentations › Conference presentations

**The 2011 Fluid•DTU Summer School**
Øistein Wind-Willassen (Participant)
Department of Mathematics
Department of Applied Mathematics and Computer Science

**Description**
Complex motion in fluids

**Place:** Krogerup Højskole

**Related event**

The 2011 Fluid•DTU Summer School: The 2011 Fluid•DTU Summer School Complex Motion in Fluids
07/08/2011 → 13/08/2011
Krogerup, Denmark
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

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**Multi-spectral Imaging as a Method for Automatic Quality Control of Fish Fillet and Fish Feed**

Period: 24 Jun 2011
Martin Georg Ljungqvist (Speaker)
Department of Informatics and Mathematical Modeling
DTU Data Analysis
FoodDTU

**Description**
Place: Igarashi Lab, Tokyo University, Tokyo, Japan

**Related external organisation**

Unknown external organisation
Activity: Talks and presentations › Conference presentations

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**Towards a Semantics for VDM Core**

Period: 20 Jun 2011
Anne Elisabeth Haxthausen (Speaker)
Department of Informatics and Mathematical Modeling

**Description**
Presentation given at the 9th Overture Workshop, as part of FM 2011.

**Related event**

Towards a Semantics for VDM Core
20/06/2011 → 20/06/2011
University of Limerick, Ireland
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

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**Life as a Ph.D. student at DTU Mathematics: Talk given at inspiration event for undergraduate students at DTU Mathematics**

Period: 15 Jun 2011
Peter Nørtoft (Speaker)
Department of Mathematics

**Related external organisation**

Unknown external organisation
Activity: Talks and presentations › Conference presentations

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**Multi-spectral Image Analysis for Astaxanthin Coating Classification**

Period: 27 May 2011
Martin Georg Ljungqvist (Speaker)
Department of Informatics and Mathematical Modeling
DTU Data Analysis
FoodDTU

Description
Place: Scandinavian Workshop on Imaging Food Quality (SWIFQ), Ystad, Sweden

Related external organisation

Unknown external organisation
Activity: Talks and presentations › Conference presentations

**Hvordan kan vi undgå worst-case?**
Period: 10 May 2011
Frank Huess Hedlund (Lecturer)
Department of Applied Mathematics and Computer Science

**Related event**

**Hvordan kan vi undgå worst-case?**
10/05/2011 → …
Copenhagen, Denmark
Activity: Talks and presentations › Conference presentations

**MicroSoft Research Software Summit**
Period: 13 Apr 2011 → 15 Apr 2011
Anne Elisabeth Haxthausen (Participant)
Department of Informatics and Mathematical Modeling
Software Engineering

**Related event**

**MicroSoft Research Software Summit**
13/04/2011 → 15/04/2011
Activity: Attending an event › Participating in or organising a conference

**Nano Structures on Surfaces and Light Scattering**
Mirza Karamehmedovic (Participant)
Department of Applied Mathematics and Computer Science
Scientific Computing
Department of Physics

**Description**
M. Karamehmedović and T. Wriedt. Sizing of highly conductive nanowires on substrates

**Related event**

**Nano Structures on Surfaces and Light Scattering**
24/03/2011 → 25/03/2011
Bremen, Germany
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**Isogeometric Shape Optimization for Fluids: Talk given at the workshop "New Trends in Applied Geometry"**
Period: 20 Feb 2011 → 25 Feb 2011
The aim of this work is to use isogeometric analysis, a unification of finite element methods (FEM) and computer aided design (CAD), to solve shape optimization problems within fluid mechanics. The flow problems considered are governed by the 2-dimensional steady-state, incompressible Navier-Stokes equations. The crux of isogeometric analysis is to approximate the fluid velocity and pressure fields by B-splines. The accurate geometry representation and high degree of continuity of the flow fields are some of the method’s advantages. In shape optimization for fluids we search for an optimal design of the flow domain that minimizes a prescribed objective, while satisfying suitable constraints. The design variables in the isogeometric approach are the coordinates of control points that define the boundary of the domain. With the ability to represent complex shapes in few design variables, and the unification of the analysis and geometry models, isogeometric analysis is highly suited for shape optimization purposes. The methodology is firstly presented through a simple example in which a pipe bend is designed to minimize the drag with a constraint on the area of the pipe. The basics of how to apply isogeometric analysis to the Navier-Stokes equations are briefly covered, some regularization methods to ensure good boundary parametrizations during optimization are discussed, and different design results for a range of Reynolds numbers are presented. Lastly, we present results for a simple airfoil optimization, in which an airfoil is designed to minimize the drag with a constraint on the lift and the size of the wing.

Place: Hurdalsjoen, Norway

Related external organisation

Unknown external organisation

Activity: Talks and presentations › Conference presentations

New Trends in Applied Geometry

Period: 20 Feb 2011 → 25 Feb 2011

Jens Gravesen (Participant)

Department of Mathematics

Description

Isogeometric Shape Optimization for Fluids: Talk given at the workshop ”New Trends in Applied Geometry”

The aim of this work is to use isogeometric analysis, a unification of finite element methods (FEM) and computer aided design (CAD), to solve shape optimization problems within fluid mechanics. The flow problems considered are governed by the 2-dimensional steady-state, incompressible Navier-Stokes equations. The crux of isogeometric analysis is to approximate the fluid velocity and pressure fields by B-splines. The accurate geometry representation and high degree of continuity of the flow fields are some of the method's advantages. In shape optimization for fluids we search for an optimal design of the flow domain that minimizes a prescribed objective, while satisfying suitable constraints. The design variables in the isogeometric approach are the coordinates of control points that define the boundary of the domain. With the ability to represent complex shapes in few design variables, and the unification of the analysis and geometry models, isogeometric analysis is highly suited for shape optimization purposes. The methodology is firstly presented through a simple example in which a pipe bend is designed to minimize the drag with a constraint on the area of the pipe. The basics of how to apply isogeometric analysis to the Navier-Stokes equations are briefly covered, some regularization methods to ensure good boundary parametrizations during optimization are discussed, and different design results for a range of Reynolds numbers are presented. Lastly, we present results for a simple airfoil optimization, in which an airfoil is designed to minimize the drag with a constraint on the lift and the size of the wing.

Place: Hurdalsjoen, Norway

Related event

New Trends in Applied Geometry

20/02/2011 → 25/02/2011

Hurdalsjoen, Norway

Activity: Attending an event › Participating in or organising a conference

Time Series Analysis (TSA); 02417

Period: 3 Feb 2011 → 5 May 2011

Anders Stockmarr (Lecturer)

Section for Veterinary Epidemiology and public sector consultancy

Department of Applied Mathematics and Computer Science
Related event

Time Series Analysis
03/02/2011 → 05/05/2011
Kgs. Lyngby, Denmark
Activity: Other

NordSecMob Network meeting 2011 (Event)
Period: 26 Jan 2011 → 28 Jan 2011
Flemming Stassen (Reviewer)
Department of Informatics and Mathematical Modeling
Embedded Systems Engineering

Description
NordSecMob Network meeting: 21 Selection meeting

Related event

NordSecMob Network meeting 2011
26/01/2011 → …
Finland
Activity: Research › Peer review of manuscripts

Effective Development and Verification of Railway Control Software
Period: 21 Jan 2011
Anne Elisabeth Haxthausen (Speaker)
Department of Informatics and Mathematical Modeling
Software Engineering

Description
This course module presents a method for effective development of software for a product line of similar railway control systems. The software is constructed in three steps: first a specifications in a domain-specific language is created, then a formal behavioural controller model is automatically created from the specification, and finally the model is compiled into executable object code. Formal verification is performed automatically by tools at three levels: (1) the specification is checked to follow the rules of the domain, (2) the controller model is checked to ensure safety, and (3) the object code is verified to be a correct implementation of the controller model.
Note: This seminar was given as a part of the Public Sector Consultancy service offered by the Technical University of Denmark.
Place: Banedanmark, Copenhagen

Related external organisation

Unknown external organisation
Activity: Talks and presentations › Conference presentations

Isogeometric Shape Optimization for Fluids: Talk given at the workshop "Isogeometric Analysis 2011: Integrating Design and Analysis"
Period: 14 Jan 2011
Peter Nørtoft (Speaker)
Department of Mathematics

Description
The aim of this work is to use the unification of finite element methods (FEM) and computer aided design (CAD) embedded in isogeometric analysis to solve shape optimization problems within fluid mechanics. The flow problems considered are governed by the 2-dimensional steady-state, incompressible Navier-Stokes equations. These partial differential equations are solved for fluid velocity and pressure using B-spline based isogeometric analysis. The accurate geometry representation and high degree of continuity of the flow fields are some of the method's advantages. To ensure stable discretizations, though, care has to taken in the choice of polynomial degrees and knots vectors for the velocity and pressure approximations. In shape optimization for fluids we search for an optimal design of the flow domain that minimizes a prescribed objective, while satisfying suitable constraints. With the ability to represent complex shapes in few design variables, and the unification of the analysis and geometry models, isogeometric analysis is highly suited for shape
optimization purposes. The design variables are the coordinates of control points that define the boundary of the domain. As the optimizer moves the control points around, though, control points are sometimes seen to coalesce and the control net might even fold over severely, causing an improper design and the analysis to break down. Regularization methods to ensure a good boundary representation are therefore often needed. The methodology is presented through a simple example in which a pipe bend is designed to minimize the drag with a constraint on the area of the pipe. The basics of the analysis of the Navier-Stokes equations are briefly covered, some regularization methods to ensure good boundary parametrisations during optimization are discussed, and different design results for a range of Reynolds numbers are presented.

Related external organisation

Unknown external organisation
Activity: Talks and presentations › Conference presentations

New Trends in Applied Geometry
Period: 14 Jan 2011
Jens Gravesen (Participant)
Department of Mathematics

Description
Isogeometric Shape Optimization for Fluids: Talk given at the workshop "Isogeometric Analysis 2011: Integrating Design and Analysis"

The aim of this work is to use the unification of finite element methods (FEM) and computer aided design (CAD) embedded in isogeometric analysis to solve shape optimization problems within fluid mechanics. The flow problems considered are governed by the 2-dimensional steady-state, incompressible Navier-Stokes equations. These partial differential equations are solved for fluid velocity and pressure using B-spline based isogeometric analysis. The accurate geometry representation and high degree of continuity of the flow fields are some of the method's advantages. To ensure stable discretizations, though, care has to taken in the choice of polynomial degrees and knots vectors for the velocity and pressure approximations. In shape optimization for fluids we search for an optimal design of the flow domain that minimizes a prescribed objective, while satisfying suitable constraints. With the ability to represent complex shapes in few design variables, and the unification of the analysis and geometry models, isogeometric analysis is highly suited for shape optimization purposes. The design variables are the coordinates of control points that define the boundary of the domain. As the optimizer moves the control points around, though, control points are sometimes seen to coalesce and the control net might even fold over severely, causing an improper design and the analysis to break down. Regularization methods to ensure a good boundary representation are therefore often needed. The methodology is presented through a simple example in which a pipe bend is designed to minimize the drag with a constraint on the area of the pipe. The basics of the analysis of the Navier-Stokes equations are briefly covered, some regularization methods to ensure good boundary parametrisations during optimization are discussed, and different design results for a range of Reynolds numbers are presented.

Place: Austin, Texas, USA

Related event

New Trends in Applied Geometry
20/02/2011 → 25/02/2011
Hurdalsjoen, Norway
Activity: Attending an event › Participating in or organising a conference

Fast Software Encryption 2011 (Journal)
Period: 1 Jan 2011 → …
Søren Steffen Thomsen (Reviewer)
Department of Mathematics

Related journal

Fast Software Encryption 2011
Local database
Activity: Research › Peer review of manuscripts
Associate Editor, Population Ecology (External organisation)
Period: 2010 → …
Gilles Guillot (Participant)
Department of Informatics and Mathematical Modeling
Mathematical Statistics
Degree of recognition: International

Related external organisation

Associate Editor, Population Ecology
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

Population Ecology (Journal)
Period: 2010 → …
Gilles Guillot (Editor)
Department of Informatics and Mathematical Modeling
Mathematical Statistics

Related journal

Population Ecology
1438-3896
Scopus rating (2016): CiteScore 1.69 SJR 0.921 SNIP 0.961, Web of Science (2018): Indexed yes
Local database
Activity: Research › Journal editor

The Open Statistics & Probability Journal (Journal)
Period: 2010 → …
Gilles Guillot (Editor)
Department of Informatics and Mathematical Modeling
Mathematical Statistics

Description
Editorial Board, The Open Statistics and Probability Journal

Related journal

The Open Statistics & Probability Journal
1876-5270
ISI indexed (2013): ISI indexed no
Central database
Activity: Research › Journal editor

Wind Energy (Journal)
Period: 2010 → …
Pierre Pinson (Editor)
Department of Electrical Engineering
Center for Electric Power and Energy
Department of Applied Mathematics and Computer Science

Related journal

Wind Energy
1095-4244
Web of Science (2018): Indexed yes
Central database
Activity: Research › Journal editor

**Challenges in risk assessment - Insidious erosion of safety margins over time**

*Period:* 23 Nov 2010  
*Frank Huess Hedlund (Invited speaker)*

Department of Applied Mathematics and Computer Science  
Documents:  
Presentation_NSOF_safety_conference_2010.pdf

**Related event**

2nd International Safety Conference in the North Sea Offshore Authorities Forum (NSOAF)  
Aberdeen, United Kingdom  
Activity: Talks and presentations › Conference presentations

**Member of the review board for a VIP position at Engineering College of Århus (External organisation)**

*Period:* 22 Nov 2010 → 1 Dec 2010  
*Anne Elisabeth Haxthausen (Member)*

Department of Informatics and Mathematical Modeling  
Software Engineering

**Related external organisation**

**Member of the review board for a VIP position at Engineering College of Århus**

Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

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**Formal Methods: A Tutorial on Model-oriented Specification**

*Period:* 14 Oct 2010  
*Anne Elisabeth Haxthausen (Consultant)*

Department of Informatics and Mathematical Modeling  
Software Engineering

**Description**

Note: This lecture was given as a part of the Public Sector Consultancy service offered by the Technical University of Denmark.

**Related external organisation**

**Unknown external organisation**

Activity: Public and private sector consultancy › Public sector consultancy

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**Korean Advanced Institute of Science and Technology (KAIST)**

*Period:* 11 Oct 2010 → 15 Oct 2010  
*Flemming Stassen (Visiting researcher)*

Department of Informatics and Mathematical Modeling  
Embedded Systems Engineering

**Description**

Official visit DTU KAIST (Republic of Korea)  
Activity: Visiting an external institution › Visiting another research institution

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**Workshop on AUTO, CoCo and Matlab**

*Period:* 11 Oct 2010 → 12 Oct 2010  
*Frank Schilder (Speaker)*
Department of Mathematics

Dynamical systems

Description
Note: One-day lecture on continuation using the continuation package COCO.
Links:
http://sourceforge.net/projects/cocotools (REL-OA)

Related external organisation
University of Bristol
United Kingdom
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

Analysis of Astaxanthin in Fish Feed Pellets
Period: 4 Oct 2010
Martin Georg Ljungqvist (Speaker)
Department of Informatics and Mathematical Modeling
DTU Data Analysis

Description
Place: WEFTA, Cesme, Turkey

Related external organisation
Unknown external organisation
Activity: Talks and presentations › Conference presentations

Time Series Analysis (TSA); 02417
Period: 3 Sep 2010 → 3 Dec 2010
Anders Stockmarr (Lecturer)
Section for Epidemiology
Department of Applied Mathematics and Computer Science

Description
Place: DTU Informatics

Related event
Time Series Analysis
03/09/2010 → 03/12/2010
Kgs. Lyngby, Denmark
Activity: Other

An Introduction to Formal Methods for the Development of Safety-critical Applications
Period: 1 Sep 2010
Anne Elisabeth Haxthausen (Consultant)
Department of Informatics and Mathematical Modeling
Software Engineering

Description
Note: This lecture was given as a part of the Public Sector Consultancy service offered by the Technical University of Denmark.

Related external organisation
Trafikstyrelsen (Danish Transport Authority)
Activity: Public and private sector consultancy › Public sector consultancy
73rd Annual Meeting of the Institute of Mathematical Statistics
Gilles Guillot (Chairman)
Department of Informatics and Mathematical Modeling
Mathematical Statistics

Related event

73rd Annual Meeting of the Institute of Mathematical Statistics: Session on model selecion
09/08/2010 → 13/08/2010
Gothenburg, Sweden
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

An Introduction to Formal Methods for Software Development
Period: 25 Jun 2010
Anne Elisabeth Haxthausen (Consultant)
Department of Informatics and Mathematical Modeling
Software Engineering

Description
Note: This lecture was given as a part of the Public Sector Consultancy service offered by the Technical University of Denmark.

Related external organisation
Banedanmark (Rail Net Denmark)
Activity: Public and private sector consultancy › Public sector consultancy

KAIST-DTU Dual Degree Master Program in Computer Science
Period: 19 Jun 2010 → 31 Jul 2017
Flemming Stassen (Other)
Department of Applied Mathematics and Computer Science
Embedded Systems Engineering

Description
Coordinated by Flemming Stassen
Links:
http://www.dtu.dk/english/Education/msc/Programmes/computer_science_and_engineering

Related external organisation
Korea Advanced Institute of Science and Technology (KAIST)
Daejeon, Korea, Republic of
Activity: Other

5-års seminar om Lavenerghuset i Sisimiut
Period: 2 Jun 2010
Henrik Madsen (Speaker)
Department of Informatics and Mathematical Modeling
Mathematical Statistics
Arctic Technology Centre
Links:

Related event
5-års seminar om Lavenerghuset i Sisimiut
02/06/2010 → 02/06/2010
DTU Mødecenter
Activity: Other

Philip Hvidthøft Delff Andersen (Speaker)
Department of Informatics and Mathematical Modeling
Mathematical Statistics
Arctic Technology Centre
Links:

Related event

Talentudvikling og karriererådgivning
Period: 17 May 2010 → 7 Dec 2010
Anne Elisabeth Haxthausen (Participant)
Department of Informatics and Mathematical Modeling
Software Engineering

Description
Talentudvikling og karriererådgivning

Place: Technical University of Denmark, Lyngby
Degree of recognition: Local

Related event

NordSecMob Network meeting
Period: 6 May 2010
Flemming Stassen (Participant)
Department of Informatics and Mathematical Modeling
Embedded Systems Engineering

Description
NordSecMob Network meeting: 19 Supplementary Selection meeting

Related event

NordSecMob Network meeting: 19 Supplementary Selection meeting
06/05/2010 → 06/05/2010
Finland
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Period: 1 Apr 2010 → 31 Aug 2017
Flemming Stassen (Other)
Department of Applied Mathematics and Computer Science
Embedded Systems Engineering

Description
Coordinated by Flemming Stassen
Links:
Activity: Other

Nano Particles, Nano Structures and Near Field Computation
Period: 11 Mar 2010 → 12 Mar 2010
Mirza Karamehmedovic (Participant)
Department of Applied Mathematics and Computer Science
Scientific Computing
Department of Physics

Description
1) M. Karamehmedović, R. Schuh and V. Schmidt. Comparison of numerical methods for near-field computation
2) M. Karamehmedović. Solution of defect-detection inverse problems of Optical Diffraction Microscopy using the Method of Fundamental Solutions

Related event
Nano Particles, Nano Structures and Near Field Computation
11/03/2010 → 12/03/2010
Bremen, Germany
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

JAIST Advanced School on Formal Specification and Systems Verification 2010 (JAIST-FSSV2010)
Period: 1 Mar 2010 → 5 Mar 2010
Anne Elisabeth Haxthausen (Participant)
Department of Informatics and Mathematical Modeling
Software Engineering

Related event
JAIST Advanced School on Formal Specification and Systems Verification 2010 (JAIST-FSSV2010)
01/03/2010 → 05/03/2010
Kanazawa, Japan
Activity: Attending an event › Participating in or organising a conference

NordSecMob Network meeting
Period: 18 Jan 2010 → 19 Jan 2010
Flemming Stassen (Participant)
Department of Informatics and Mathematical Modeling
Embedded Systems Engineering

Description
NordSecMob Network meeting: 17 Selection meeting

Related event
NordSecMob Network meeting: 17 Selection meeting
18/01/2010 → 19/01/2010
Finland
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**Population Ecology (Journal)**
Period: 1 Jan 2010 → …
Gilles Guillot (Editor)

Department of Informatics and Mathematical Modeling
Mathematical Statistics

**Description**
Associate Editor

**Related journal**

**Population Ecology**
1438-3896
Scopus rating (2016): CiteScore 1.69 SJR 0.921 SNIP 0.961, Web of Science (2018): Indexed yes
Local database
Activity: Research › Journal editor

Period: 1 Jan 2010 → 31 Dec 2010
Gilles Guillot (Reviewer)

Department of Informatics and Mathematical Modeling
Mathematical Statistics

**Related journal**

Local database
Activity: Research › Peer review of manuscripts

**The Open Statistics & Probability Journal (Journal)**
Period: 1 Jan 2010 → …
Gilles Guillot (Editor)

Department of Informatics and Mathematical Modeling
Mathematical Statistics

**Description**
Associate Editor

**Related journal**

**The Open Statistics & Probability Journal**
1876-5270
ISI indexed (2013): ISI indexed no
Central database
Activity: Research › Journal editor

**Open Statistics and Probability Journal (External organisation)**
Period: 2009 → …
Gilles Guillot (Participant)

Department of Informatics and Mathematical Modeling
Introduction to non-linear models in food science
Period: 6 Dec 2009
Gilles Guillot (Participant)
Department of Informatics and Mathematical Modeling

Description
Course lecturer

Related event
Introduction to non-linear models in food science
06/12/2009 → 06/12/2009
Activity: Other

Member of the review board of a Ph.D. thesis entitled "Domain-specific Modelling of Railway Control Systems with Integrated Verification and Validation", by Kirsten Mewes, Bremen University (External organisation)
Period: 12 Nov 2009
Anne Elisabeth Haxthausen (External examiner)
Department of Informatics and Mathematical Modeling

Software Engineering
Activity: Examinations and supervision › External examination

Towards a Framework for Modelling and Verification of Relay Interlocking Systems
Period: 11 Nov 2009
Anne Elisabeth Haxthausen (Speaker)
Department of Informatics and Mathematical Modeling

Software Engineering

Description
This talk describes a framework currently under development for modelling, simulation and verification of relay interlocking systems as used by the Danish railways. The framework is centered around a domain-specific language (DSL) for describing such systems, and provides (1) graphical editors for creating DSL descriptions, (2) a validator for checking that DSL descriptions are statically well-formed (follow structural rules of the domain), (3) a graphical simulator for simulating the dynamic behaviour of relay interlocking systems, and (4) generators that from a DSL description can derive a state transition system model for the dynamic behaviour of the described relay interlocking system and its physical environment, as well as safety conditions (a model checker can then be applied to verify that the system satisfies the safe conditions). A description in the language consists of a track layout for the station under control, train route tables, and circuit diagrams describing the static layout of the circuits implementing the relay interlocking system. The talk will finally touch upon how the framework is formally developed using the RAISE formal method.
Note: Invited seminar talk.
Place: Universität Bremen

Related seminar talk

Unknown external organisation
Activity: Talks and presentations › Conference presentations
Meta-analysis and databasing of neuroimaging studies
Period: 7 Oct 2009
Finn Årup Nielsen (Speaker)
Department of Informatics and Mathematical Modeling
Cognitive Systems

Description
Note: From PhD course Advances in magnetic resonance imaging of human brain structure and function at Hvidovre Hospital, University of Copenhagen.
Place: Hvidovre Hospital, Denmark
Documents:
NielsenF2009MetaAnalysis.pdf
Links:

Related external organisation
Unknown external organisation
Activity: Talks and presentations › Conference presentations

Erhvervs- og Vækstministeriet (External organisation)
Period: 1 Jul 2009 → 30 Jun 2014
Flemming Stassen (Participant)
Department of Applied Mathematics and Computer Science
Embedded Systems Engineering

Description
Appeal Board of Patents and Trademarks
Technical reviewer (reappointment)

Body type: Appeal Board
Links:
http://www.pvanke.dk/pvanke/

Related external organisation
Erhvervs- og Vækstministeriet
Slotholmsgade 10-12, 1216, København K, Denmark
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

International Symposium on Voronoi Diagrams in science and engineering (External organisation)
Period: 23 Jun 2009 → …
Francesc/François Antón Castro (Participant)
National Space Institute
Geodesy
Department of Informatics and Mathematical Modeling
Image Analysis and Computer Graphics

Description
Body type: Steering Committee
Degree of recognition: International

Related external organisation
International Symposium on Voronoi Diagrams in science and engineering
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar
Cryptographic hash functions: Invited talk at Univerzita Karlova v Praze
Period: 16 Jun 2009
Praveen Gauravaram (Speaker)
Department of Mathematics
Discrete mathematics

Description
This talk is on several aspects of cryptographic hash functions. The talk covers popular hash function designs and their security analysis. The talk also covers some important applications of hash functions and the impact of the security of the hash functions on the applications.

Related external organisation
Charles University
Czech Republic
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

On randomizing hash functions to strengthen the security of digital signatures
Period: 20 Mar 2009
Praveen Gauravaram (Speaker)
Department of Mathematics
Discrete mathematics

Related external organisation
Nanyang Technological University
Singapore, Singapore
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

A Domain-specific, Model-based Approach for Construction and Verification of Railway Control Systems
Period: 23 Jan 2009
Anne Elisabeth Haxthausen (Speaker)
Department of Informatics and Mathematical Modeling
Software Engineering

Description
This talk describes a complete model-based development and verification approach for railway control systems. For each control system to be generated, the user makes a description of the application-specific parameters in a domain-specific language. This description is automatically transformed into an executable control system model expressed in SystemC. This model is then compiled into object code. Verification is performed at different levels: (0) The domain-specific description is validated wrt. internal consistency by static analysis. (1) The crucial safety properties are verified for the SystemC model by means of bounded model checking. (2) The object code is verified to be I/O behavioural equivalent to the SystemC model from which it was compiled.
Note: Invited seminar talk
Place: Christian-Albrechts-Universität zu Kiel

Related external organisation
Unknown external organisation
Activity: Talks and presentations › Conference presentations

Nordic Master School in Innovative ICT (NMS iICT) (External organisation)
Period: 16 Jan 2009 → 31 Aug 2014
Flemming Stassen (Participant)
Department of Applied Mathematics and Computer Science
Embedded Systems Engineering

**Description**
NMS IICT - Nordic Master School in Innovative Information and Communication Technologies

**Related external organisation**

**Nordic Master School in Innovative ICT (NMS IICT)**
Turku, Finland
Activity: Membership › Membership of research networks or expert groups

**Associate Editor Molecular Ecology (External organisation)**
Period: 1 Jan 2009 → …
Gilles Guillot (Participant)
Department of Informatics and Mathematical Modeling
Mathematical Statistics

**Related external organisation**

**Associate Editor Molecular Ecology**
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

**Reviewer for Global Ecology and BioGeography, Biometrics, Conservation Genetics (Journal)**
Period: 1 Jan 2009 → 31 Dec 2009
Gilles Guillot (Reviewer)
Department of Informatics and Mathematical Modeling
Mathematical Statistics

**Related journal**

**Reviewer for Global Ecology and BioGeography, Biometrics, Conservation Genetics**

**Local database**
Activity: Research › Peer review of manuscripts

**An on-line birthday forgery attack on some randomize hash then sign signature algorithms: ECRYPT-II Kickoff meeting at K.U.Leuven, Leuven, Belgium**
Period: 25 Nov 2008
Praveen Gauravaram (Speaker)
Department of Mathematics
Discrete mathematics

**Description**
Place: K.U.Leuven, Leuven, Belgium

**Related external organisation**

**Unknown external organisation**
Activity: Talks and presentations › Conference presentations

**Cognitive Component Analysis**
Period: 31 Oct 2008
Ling Feng (Speaker)
Department of Informatics and Mathematical Modeling

**Description**
It concerns the investigation of the consistency of statistical regularities in a signaling ecology and human cognition, while inferring appropriate actions for a speech-based perceptual task. It is based on unsupervised Independent Component Analysis providing a rich spectrum of audio contexts along with pattern recognition methods to map components to known
contexts. It also involves looking for the right representations for auditory inputs, i.e. the data analytic processing pipelines invoked by human brains. The main ideas refer to Cognitive Component Analysis, defined as the process of unsupervised grouping of generic data such that the ensuing group structure is well-aligned with that resulting from human cognitive activity. Its hypothesis runs ecologically: features which are essentially independent in a context defined ensemble, can be efficiently coded as sparse independent component representations. The focus has been to construct a preprocessing pipeline for COCA to search for the ‘cognitive structure’, and to measure the alignment of the resulting from unsupervised learning and human cognition. Based on the nature of human auditory system and psychoacoustics, we have constructed the pipeline: feature extraction; feature integration; energy based sparsification; and principal component analysis. To test whether human uses information theoretically optimal ICA methods in higher cognitive functions, is the main concern in this thesis. It is well-documented that unsupervised learning discovers statistical regularities. However human cognition is too complicated and not yet fully understood. Nevertheless, in our approach we represent human cognitive processes as a classification rule in supervised learning. Thus we have devised a testable protocol to test the consistency of statistical properties and human cognitive activity, i.e. unsupervised learning of perceptual inputs and supervised learning of inputs together with manually obtained labels. The comparison has been carried out at different levels. This protocol has successfully revealed the consistency of two classifications via several speech-based cognitive tasks.

Note: It is the presentation from the author's Ph. D. defense
Place: DTU Informatics, building 321, lecture room 053
Documents:
Cognitive Component Analysis.pdf
Links:

Related external organisation
Unknown external organisation
Activity: Talks and presentations › Conference presentations

Årskursus i matematik, kemi og fysik
Mads Peter Sørensen (Speaker)
Department of Mathematics
Dynamical systems

Description
Place: Rosborg Gymnasium, Vejle.
Documents:
Vejle-M.P.Soerensen.ppt

Related external organisation
Unknown external organisation
Activity: Talks and presentations › Conference presentations

A Metabolic Switch
Poul G. Hjorth (Speaker)
Department of Mathematics
Dynamical systems

Description
Our muscles are metabolically flexible, i.e., they are capable of ‘switching’ between two types of oxidation: (1) when fasting, a predominantly lipid oxidation with high rates of fatty acid uptake, and (2) when fed, suppression of lipid oxidation in favour of increased glucose uptake, oxidation and storage, in response to insulin. One of the many manifestations of obesity and Type 2 diabetes is an insulin resistance of the skeletal muscles, which suppresses this metabolic switch. This talk describes recent development of a low-dimensional system of ODEs that model the metabolic switch, displaying a sensitivity to insulin concentration which matches well with clinical data.
Place: ISABEL, Aalborg University, Oct 25-28, 2008

Related external organisation
Unknown external organisation
Activity: Talks and presentations › Conference presentations

**An on-line birthday forgery attack on some randomized-hash-then-sign signatures**  
Praveen Gauravaram (Speaker)  
Department of Mathematics  
Discrete mathematics  

**Related external organisation**  
Royal Holloway University of London  
Egham, United Kingdom  
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

**13th Nordic Workshop on Secure IT Systems**  
Flemming Stassen (Organizer)  
Department of Applied Mathematics and Computer Science  
Embedded Systems Engineering  

**Related event**  
**13th Nordic Workshop on Secure IT Systems**  
09/10/2008 → 10/10/2008  
Kongens Lyngby, Denmark  
Activity: Attending an event › Participating in or organising a conference

Activity: Attending an event › Participating in or organising a conference

**Trajectories in Celestial Mechanics**  
Period: 1 Sep 2008 → 31 Dec 2008  
Poul G. Hjorth (Other)  
Department of Mathematics  
Dynamical systems  

**Description**  
Vejledning af bachelorprojekt ved Niels Bohr Institutet  
Documents:  
jeppeforside.pdf  

**Related external organisation**  
Niels Bohr Institute  
Copenhagen, Denmark  
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

**World in a Natural Science Perspective: Lectures at the Open University, Folkeuniversitetet i København**  
Period: 1 Sep 2008 → 31 Dec 2008  
Poul G. Hjorth (Lecturer)  
Department of Mathematics  
Dynamical systems  

**Links:**  
http://www.fukoebenhavn.dk/default.aspx?pagetype=9&ListType=3&ID=25 (Link til linjestudiet: "Verden i Naturvidenskabeligt Perspektiv")  

**Related external organisation**  
Folkeuniversitetet i København
European Study Group for Industry (ESGI); 66
Mads Peter Sørensen (Participant)

Department of Mathematics
Dynamical systems

Related event

European Study Group for Industry (ESGI); 66
18/08/2008 → 22/08/2008
Technical University of Denmark, Kongens Lyngby, Denmark
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Clustering of scientific citations in Wikipedia: Wikimania 2008
Period: 19 Jun 2008
Finn Årup Nielsen (Speaker)

Department of Informatics and Mathematical Modeling
Cognitive Systems

Description
The instances of templates in Wikipedia form an interesting data set of structured information. Here I focus on the cite journal template that is primarily used for citation to articles in scientific journals. These citations can be extracted and analyzed: Non-negative matrix factorization is performed on a (article x journal) matrix resulting in a soft clustering of Wikipedia articles and scientific journals, each cluster more or less representing a scientific topic.

Place: Bibliotheca Alexandrina, Alexandria, Egypt

Documents:
Nielsen2008Clustering_slides.pdf
Links:

Related external organisation

Unknown external organisation
Activity: Talks and presentations › Conference presentations

User Conference Danish Center for Scientific Computing
Period: 1 Apr 2008
Mads Peter Sørensen (Participant)

Department of Mathematics
Dynamical systems

Description
Poster: The Ginzburg-Landau equation solved by the finite element method.

Documents:
GinzburgLandau.ppt

Related event

User Conference Danish Center for Scientific Computing
01/04/2008 → 01/04/2008
Technical University of Denmark
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

HiPEAC - European Network of Excellence on High Performance and Embedded Architecture and Compilation (External organisation)
Period: 27 Jan 2008 → 31 Dec 2015
Sven Karlsson (Participant)
Department of Applied Mathematics and Computer Science
Embedded Systems Engineering
Degree of recognition: International

Related external organisation
HiPEAC - European Network of Excellence on High Performance and Embedded Architecture and Compilation
Activity: Membership › Membership of research networks or expert groups

Control Theory
Period: 9 Jan 2008 → 31 Dec 2008
Poul G. Hjorth (Supervisor)
Department of Mathematics
Dynamical systems

Description
Medvejledning af Speciale på Matematisk Institut, Københavns Universitet
Activity: Examinations and supervision › Supervisor activities

Echternach Symmetric Crypto seminar (ESC); 1
Period: 7 Jan 2008 → 11 Jan 2008
Erik Zenner (Speaker)
Department of Mathematics
Discrete mathematics

Description
Cache Timing Attacks have been primarily discussed in connection with the Advanced Encryption Standard (AES), where they are applicable in a very straightforward way. However, the underlying techniques can be applied to other cryptographic building blocks too, as becomes obvious when considering e.g. the AES-based stream cipher LEX. In this talk, we will briefly review cache timing attacks and discuss their significance. We will then present some findings from our analysis of eStream finalist stream ciphers. While these findings do not seem to endanger the practical security of the ciphers considered, they illustrate some design techniques that help preventing cache timing attacks. In addition, they may give rise to some deeper questions about what is usually considered a success in the more standard areas of cryptanalysis.
Place: Echternach (Luxembourg)

Related external organisation
Unknown external organisation
Activity: Talks and presentations › Conference presentations

An Introduction to Multisensory Perception
Period: 1 Jan 2008 → …
Tobias Andersen (Speaker)
Department of Informatics and Mathematical Modeling
Cognitive Systems

Related external organisation
Aalborg University
A.C. Meyers Vænge 15, 2450 Copenhagen SV, Aalborg, Denmark
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

Impact Theory
Period: 1 Jan 2008 → 31 Dec 2008
Marie Bro Duun (Participant)
Department of Mathematics
Dynamical systems

Related event
Impact Theory
01/01/2008 → 31/12/2008
DTU Matematik
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Impact Theory
Period: 1 Jan 2008 → 31 Dec 2008
Poul G. Hjorth (Participant)
Department of Mathematics
Dynamical systems

Description
Course lecturer

Related event
Impact Theory
01/01/2008 → 31/12/2008
DTU Matematik
Activity: Other

Fundamentals of Information Security and Cryptology
Period: 27 Dec 2007
Praveen Gauravaram (Invited speaker)
Department of Mathematics
Discrete mathematics

Description
This lecture gives an overview of the fundamental concepts in information security and cryptology.
Note: This is an invited lecture at SVUCE in Tirupati in Andhra Pradesh state, India

Related external organisation
Sri Venkateswara University College of Engineering
Tirupati, India
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

Cryptographic Hash Functions: Cryptanalysis, Design and Applications
Period: 19 Dec 2007
Praveen Gauravaram (Speaker)
Department of Mathematics
Discrete mathematics

Description
In this talk, I have outlined the state of art in the cryptanalysis, design and applications of cryptographic hash functions.
Note: This is an invited talk at NTRO, New Delhi
Place: National Technology Research Organisation (NTRO), New Delhi, India

Related external organisation
Unknown external organisation
Activity: Talks and presentations › Conference presentations
NDRF Post Graduate Education Seminar
Jan Larsen (Participant)
Department of Informatics and Mathematical Modeling
Cognitive Systems

Description
Statistical framework for decision making in mine action
Links:
http://www2.imm.dtu.dk/pubdb/views/publication_details.php?id=5491

Related event
NDRF Post Graduate Education Seminar
06/10/2007 → 07/10/2007
Heving, Denmark
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Workshop and ph.d. course on symbolic dynamics in complex dynamics
Christian Henriksen (Participant)
Department of Mathematics
Dynamical systems

Related event
Workshop and ph.d. course on symbolic dynamics in complex dynamics
04/10/2007 → 07/10/2007
Sea Mining Station, Hillerød
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Workshop "Kryptologie in Theorie und Praxis\"; 2
Period: 27 Sep 2007
Erik Zenner (Organizer)
Department of Mathematics
Discrete mathematics

Related event
Workshop "Kryptologie in Theorie und Praxis\"; 2
Bremen (Germany)
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Verden i Naturvidenskabeligt Perspektiv
Period: 1 Sep 2007 → 10 Dec 2007
Poul G. Hjorth (Organizer)
Department of Mathematics
Dynamical systems
Links:

Related event
Verden i Naturvidenskabeligt Perspektiv
01/09/2007 → 10/12/2007
København, Denmark
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**Forum Digital Sikkerhed**
Period: 20 Jun 2007
Erik Zenner (Speaker)
Department of Mathematics
Discrete mathematics

**Description**
Report of the 34th meeting of ISO/IEC JTC1/Sc 27 in Russia
Place: Charlottenlund
Documents:
report_iso_meeting_34.pdf

**Related external organisation**

**Unknown external organisation**
Activity: Talks and presentations › Conference presentations

**Workshop on Analysis and Control of Complex Networks**
Rainer Berkemer (Participant)
Department of Mathematics
Dynamical systems
Links:
http://www.sicc-it.org/SICC_Drupal_i18n/?q=it/node/177 (Analysis and Control of Complex Networks | Società Italiana Caos e Complessità)

**Related event**

**Workshop on Analysis and Control of Complex Networks**
24/05/2007 → 26/05/2007
Milano, Italy
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**An Introduction to Multisensory Perception**
Period: 1 Jan 2007 → …
Tobias Andersen (Speaker)
Department of Informatics and Mathematical Modeling
Cognitive Systems

**Related external organisation**

**Aalborg University**
A.C. Meyers Vænge 15, 2450 Copenhagen SV, Aalborg, Denmark
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

**Audiovisual perception**
Period: 1 Jan 2007 → …
Tobias Andersen (Speaker)
Department of Informatics and Mathematical Modeling
Cognitive Systems

**Description**
Place: Audio Signal Processing Network in Denmark (ASIP), Seminar on Audio Perception and Evaluation, GN ReSound, Ballerup, Denmark
Related external organisation

Unknown external organisation
Activity: Talks and presentations › Conference presentations

Generalizing the spider algorithm
Period: 1 Jan 2007 → …
Christian Henriksen (Speaker)
Department of Mathematics
Dynamical systems

Related external organisation

Unknown external organisation
Activity: Talks and presentations › Conference presentations

Risk assessment in food allergy: Benchmark dose and margin of exposure
Period: 1 Jan 2007 → …
Per B. Brockhoff (Speaker)
Department of Informatics and Mathematical Modeling
Mathematical Statistics

Related external organisation

Unknown external organisation
Activity: Talks and presentations › Conference presentations

Evaluation of factors affecting the analytical sensitivity of bacteriological methods for investigation of S. Dublin in bovine faecal samples
Period: 10 May 2006 → 12 May 2006
Annette Kjær Ersbøll (Speaker)
Department of Informatics and Mathematical Modeling

Description
Place: The I3S International Symposium Salmonella and Salmonellosis, Saint-Malo, France

Related external organisation

Unknown external organisation
Activity: Talks and presentations › Conference presentations

Odds model med ordinal polynomial respons til testning af effekten af interventioner omhandlende sund mad på arbejdspladsen
Period: 1 Jan 2006 → …
Jens Strodl Andersen (Speaker)
Department of Informatics and Mathematical Modeling

Description
Place: Symposium i Anvendt Statistik, København, Danmark

Related external organisation

Unknown external organisation
Activity: Talks and presentations › Conference presentations

Erasmus Mundus Master's Programme in Security and Mobile Computing
Period: 1 Aug 2005 → 31 Aug 2012
Flemming Stassen (Organizer)
Department of Informatics and Mathematical Modeling
Embedded Systems Engineering

**Description**
Erasmus Mundus Master's Programme in Security and Mobile Computing: National coordinator

**Links:**
http://www.imm.dtu.dk/English/Teaching/MSc/Erasmus_Mundus.aspx (EXT-OA)

**Related event**
Erasmus Mundus Master's Programme in Security and Mobile Computing
01/08/2005 → …
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

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Økonomi- og Erhvervsministeriet (External organisation)
Period: 1 Jul 2004 → 30 Jun 2009
Flemming Stassen (Participant)
Department of Applied Mathematics and Computer Science
Embedded Systems Engineering

**Description**
Appeal Board of Patents and Trademarks

Technical reviewer (reappointment)

Body type: Appeal board

**Links:**
http://www.pvanke.dk/pvanke

**Related external organisation**
Økonomi- og Erhvervsministeriet
Slotsholmgade 12, 1216, København K, Denmark
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

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President of the International Association of Vehicle System Dynamics (External organisation)
Period: Aug 2003 → Aug 2017
Hans True (Chairman)
Department of Informatics and Mathematical Modeling

**Description**
Body type: Scientific association

**Related external organisation**
President of the International Association of Vehicle System Dynamics
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

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Ankenævnet for Patenter og Varemærker (External organisation)
Period: 1 Jul 1999 → 30 Jun 2004
Flemming Stassen (Participant)
Department of Informatics and Mathematical Modeling
Embedded Systems Engineering

**Description**
Technical reviewer

**Links:**
http://www.pvanke.dk/ (EXT-OA)

Related external organisation

Ankenævnet for Patenter og Varemærker
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar