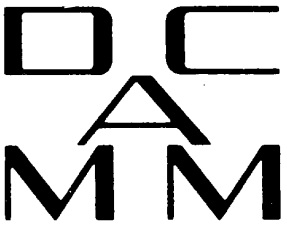
DANISH CENTER FOR APPLIED MATHEMATICS AND MECHANICS

ANNUAL REPORT
2013



TECHNICAL UNIVERSITY OF DENMARK -
AALBORG UNIVERSITY - AARHUS UNIVERSITY –
UNIVERSITY OF SOUTHERN DENMARK

DANISH CENTER FOR APPLIED MATHEMATICS AND MECHANICS

Scientific Council as of January 2014

Morten Brøns	DTU Compute
Allan P. Engsig-Karup	DTU Compute
Anton Evgrafov	DTU Compute
Michael Havbro Faber	DTU Civil Engineering
Jesper Henri Hattel	Dept. of Mechanical Engineering, DTU
Jan Høgsberg	Dept. of Mechanical Engineering, DTU
Henrik Myhre Jensen	Dept. of Engineering, AU
Martin Heide Jørgensen	Dept. of Mechanical Engineering, AAU
Erik Lund	Dept. of Mechanical Engineering, AAU
Lars Pilgaard Mikkelsen	DTU Wind Energy
Søren R.K. Nielsen	Dept. of Civil Engineering, AAU
Christian Niordson	Dept. of Mechanical Engineering, DTU
Pauli Pedersen	Dept. of Mechanical Engineering, DTU
Jens Starke	DTU Compute
Mathias Stolpe	DTU Wind Energy
Achim Schroll	Department of Mathematics and Computer Science, SDU
Jens Nørkær Sørensen	DTU Wind Energy
Jens H. Walther	DTU Mechanical Engineering

Chairman

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FOREWORD

This 2013 annual report contains information on publications, seminars and guests. The report mainly serves as a reference and documentation for accomplished activities. Detailed information is available on our homepage www.dcamm.dk and on the homepages of the cooperating departments.

This year's Annual Speaker Seminar was given by Professor Gaëtan Kerschen from University of Liège, Belgium under the title "Natural Frequencies and Normal Modes of Nonlinear Aerospace Structures". Furthermore, a total of 7 DCAMM seminars were held in 2013 and 12 courses were given under the auspices of DCAMM.

The 14th bi-annual internal DCAMM Symposium was held 13 – 15 March, 2013 at Best Western Nyborg Strand, Nyborg, with 94 participants. Furthermore, the international symposium "New Horizons in Materials Mechanics" was held 5 – 7 June, 2013 at Hotel Frederiksdal with 76 participants from 15 countries in honour of the 70th birthday of Professor Viggo Tvergaard.

As of 1 January 2014, the departments cooperating in DCAMM are:

from the **Technical University of Denmark**:

DTU Civil Engineering
DTU Compute
DTU Mechanical Engineering
DTU Wind Energy

from **Aalborg University**:
Department of Civil Engineering
Department of Mechanical and Manufacturing Engineering

from **Aarhus University**
Department of Engineering

from **University of Southern Denmark**
Department of Mathematics and Computer Science

In the future it is the aim to further increase the activities in DCAMM, and to increase the support of the core activities of the Center. To this end the Scientific Council has decided to offer financial support to travel expenses for DCAMM Seminar holders as well as support to DCAMM courses. Furthermore, it has been decided that DCAMM may support a few conferences and symposia each year. I hope that this will be helpful for our members, and that our research field will benefit from this.

I thank all the members of DCAMM both in industry and academia, as well as our international contacts for their support and inspiration, and I look forward to our future continued collaboration.

Christian Niordson

CONTENTS

1. MEMBERS 2013

58 professors
200 scientific members
185 PhD students
} at the eight cooperating departments at the Center

31 elected members
8 foreign members

(A complete list of names is given in the Appendix).

2. FOREIGN MEMBERS

Professor G.I. Barenblatt
Department of Mathematics
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Berkeley, CA 94720-3840
USA

Professor John W. Hutchinson
Division of Applied Sciences
Harvard University, 315 Pierce Hall
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Cambridge, MA 02138
USA

Professor Joseph B. Keller
Department of Mathematics and Mechanical Engineering
Stanford University, Stanford, California
USA

Professor Michael S. Longuet-Higgins
Department of Applied Mathematics and Theoretical Physics
University of Cambridge
UK

Professor Ole Secher Madsen
Ralph M. Parsons Laboratory
Massachusetts Institute of Technology
Cambridge, MA 02139
USA

Professor Alan Needleman
Department of Materials Science & Engng.
University of North Texas
1155 Union Circle
305310 Denton, TX 76203-5017
USA

Professor S. Nemat-Nasser
The UCSD Jacobs School of Engineering
Center of Excellence for Advanced Materials
4209 Engineering Building I
9500 Gilman Drive
La Jolla, CA 92093
USA

Professor Bertil Storåkers
Kungliga Tekniska Högskolan
S-100 44 Stockholm 9500
Sweden

3. GUESTS FOR EXTENDED PERIODS IN 2013
(more than a fortnight)

Guest professors & post docs:

Baykal, Cuneyt, METU, Ankara, Turkey, 1.1.13 – 19.6.13

Carlsson, Leif A., Florida Atlantic University, USA, 1.5.13 – 31.5.13

Chen, Yongqiang, Qingshuihe Campus, Chengdu, Sichuan, China, 1.9.13 – 31.8.14

Gaididei, Yuri, Kiev, Ukraine, 1.5.13 – 30.6.13

Hutchinson, John, Harvard University, USA, 15.5.13 – 15.1.2014

Jeltsch, Rolf, ETH Zürich, 15.4.13 – 31.5.13

Martins, Paolo, University of Lissabon, Portugal, 1.4.13 – 30.6.13

Thouless, Michael, University of Michigan, USA, 15.5.13 – 15.7.13

Verster, Andréhette, Univ. of the Free State, Bloemfontein, South Africa, 15.10.13 – 31.10.13

Wei, Li, National Institute of Metrology, China, 13.5.13 – 7.7.13

Yuanliu, Chen, Tohoku University, Japan, 27.1.13 – 25.2.13

Zan, Xiang, Hefei University of Technology, China, 10.6.13 – 30.6.14

PhD students

Alves, Marco, Federal University of Uberlândia, Brazil, 16.9.13 – 2.7.14

Becker, Sarah, University of Frankfurt, Germany, 18.2.13 – 1.3.13 & 30.9.13 – 11.10.13.

Benato, Alberto, University of Padova, Italy, 1.10.13 – 31.3.14

Böhm, Michael, FE-Design, Germany, 2.4.13 – 30.4.13

Ji, Xinran, Dalian University, China, 1.9.13 – 30.9.13

Leon, Daniel, Universidade Federal do Rio Grande do Sul, 1.11.13 – 31.7.14

Menuzzi, Odair, Federal University of Rio Grande do Sul, Brazil, 1.11.13 – 30.4.14

Padoin, Eduardo, Federal University of Rio Grande do Sul, Brazil, 1.11.13 – 30.4.14

Rodias, Euthimis, Agricultural University of Athens, Greece, 15.10.12 – 15.1.13

Simmons, Gregory, Luleå University of Technology, Sweden, 4.2.13 – 15.3.13

Tieppo, Rafael Cesar, Universidade de São Paulo, USP, Brazil, 15.10.13 – 15.7.14

Triesto, Gianluca, University of Padova, Italy, 5.8.13 – 29.11.13

4 . PUBLICATIONS IN 2013

4A. INTERNATIONAL JOURNALS WITH PEER REVIEW

Ambat, R.
Corrosion reliability of electronic devices. Corrosion Engineering, Science and Technology, (2013), 48(6), 408.

Elisseeva, O.V.; Bruhn, A.; Cerezo, J.; Mavinkurve, A.; Rongen, R.T.H., O'Halloran, G.M.; Ambat, R.; Terryn, H.; Mol, J.M.C.
Novel electrochemical approach to study corrosion mechanism of Al-Au wire-bond pad interconnections, (2013), 48(6), 409-417.

Andersen, I.M.V.
Wind loads on post-panamaz container ship. Ocean Engineering, (2013), 58, 115-134.

Andersen, M.; Vinther, F.; Ottesen, J.T.
Mathematical modeling of the hypothalamic-pituitary-adrenal gland (HPA) axis, including hippocampal mechanisms. Mathematical Biosciences, (2013), 1, 122-138.

Glintborg, D.; Christiensen, L.L.; Kvorning, T.; Larsen, R.; Brixen, K.; Hougaard, D.M., Richelsen, B.; Bruun, J.M.; Andersen, M.
Strength training and testosterone treatment have opposing effects on migration inhibitor factor levels in ageing men. Mediators of Inflammation, (2013), 7.

Andersen, M.S.; Mellon, S.; Grammatopoulos, G.; Gill, H.
Evaluation of the accuraty of three popular regression equations for hip joint centre extimation using computerized tomography measurements for metal-on-metal hip resurfacing arthroplasty patients. Gait & Posture, (2013), 38(4), 1044-1047.

Mellon, S.; Grammatopoulos, G.; Andersen, M.S.; Pegg, E.; Pandit, H.; Murray, D, Gill, H.
Individual motion patterns during gait and sit-to-stand contribute to edge-loading risk in metal-on metal hip resurfacing. Institution of Mechanical Engineers. Proceedings. Part H: Journal of Engineering in Medicine, (2013), 227(7), 799-810.

Madsen, Søren; Andersen, Lars Vabbersgaard; Ibsen, Lars Bo
Numerial Buckling Analysis of Large Suction Caissons for Wind Turbines on Deep Water. Engineering Structures, (2013), 57, 443-452.

Andersen, S.J.; Sørensen, J.N.; Mikkelsen, R.F.
Simulation of the inherent turbulence and wake interaction inside an infinitely long row of wind turbines. Journal of Turbulence, (2013), 14(4), 1-24.

Andreasen, C.S.; Sigmund; O.
Topology oprimization of fluid-structure-interaction problems in proelasticity. Computer Methods in Applied Mechanics and Engineering, (2013), 258, 55-62.

Andreassen, E.; Jensen, J.S.
Analysis of phononic bandgap structures with dissipation. Journal of Vibration and Acoustics, (2013), 135(4).

Ashouri Vajari, D.; Legarth, B.N.; Niordson, C.F.
Micromechanical modeling of inidirectional composites with uneven interfacial strengths. European Journal of Mechanics A – Solids, (2013), 42, 241-250.

Azizi, R.; Legarth, B.N.; Niordson, C.F.
A new macroscopically anisotropic pressure dependent yield function for metal matrix composite based on strain gradient plasticity for the microstructure. Journal of the Mechanics and Physics of Solids, (2013), 62(4), 991-1009.

Chen, W.; Jiang, J.; Liu, J.; Bai, S.; Chen, W.
A passive eddy current damper for vibration suppression of a force sensor. Journal of Physics D: Applied Physics, (2013), 46(7), 1-11.

Hyldahl, P.C.; Mikkola, A.; Balling, O.
A thin plate element based on the combined Arbitrary Lagrange-Euler and Absolute Nodal Coordinate Formulations. Journal of Multi-Body Dynamics, (2013), 227(3), 211-219.

Bang-Jensen, J.; Simonsen, S.
Arc-disjoint paths and trees in 2-regular digraphs. Discrete Applied Mathematics, (2013), 161(16-17), 2724-2730.

Bang-Jensen, J.; Simonsen, S.
Partitioning the arcs of a digraph into a star forest of the underlying graph with prescribed orientation properties. Theoretical Computer Science, (2013), 475, March.

Bang-Jensen, J.; Maddaloni, A.; Simonsen, S.
Quasi-hamiltonian paths in semicomplete multipartite digraphs. Discrete Applied Mathematics, (2013), 161(7-8), 889-898.

Baran, I.; Hattel, J.H.; Tutum, C.C.
3D thermo-chemical-mechanical analysis of the pultrusion process. Risoe International Symposium on Materials Science. Proceedings, (2013), 34, 169-176.

Baran, I.; Carlone, P.; Hattel, J.H.; Palazzo, G.S.
Numerical and semi-analytical modelling of the process induced distortions in pultrusion. Risoe Internaional Sympositum on Materials Science. Proceedings, (2013), 34, 161-168.

Baran, I.; Tutum, C.C.; Nielsen, M.W.; Hattel, J.H.
Process induced residual stresses and distortions in pultrusion. Composites Part B: Engineering, (2013), 51, 148-161.

Baran, I.; Tutum, C.C.; Hattel, J.H.
The effect of thermal contact resistance on the thermosetting pultrusion process. Composites Par B: Engineering, (2013), 45(1), 995-1000.

Baran, I.; Tutum, C.C.; Hattel, J.H.
The Internal Stress Evaluation of Pultruded Blades for a Darrieus Wind Turbine. Key Engineering Materials, (2013), 554-557, 2127-2137.

Baran, I.; Hattel, J.H.; Tutum, C.C.
Thermo-Chemical Modelling Strategies for the Pultrusion Process. Applied Composite Materials, (2013), 20, 1247-1263.

Carlone, P.; Baran, I.; Hattel, J.H.; Palazzao, G.S.
Computational Approaches for Modeling the Multiphysics in Pultrusion Proess. Advances in Mechanical Engineering, (2013) 14.

Tutum, C.C.; Baran, I.; Hattel, J.H.
Utilizing multiple objectives for the optimization of the pultrusion process based on a thermo-chemical simulation. Key Engineering Materials, (2013), 554-557, 2165-2174.

Barh, D.; Gupta, K.; Jain, N.; Khatri, G.; Ldón-Sicairos, N.; Canizalez-Roman, A.; Tiwari, S.; Verma, A.; Rahangdale, S.; Shah Hassan, S.; dos Santos, A.R.; Ali, A.; Guimarães, L.C.; Thiago Jucá Ramos, R.; Devarapalli, P.; Barne, N.; Bakhtiar, M.; Kumavath, R.; Ghosh, P.; Miyoshi, A.; Silva, A.; Kumar, A.; Misra, A.N.; Blum, K.; Baumbach, J.; Azevedo, V.
Conserved host-pathogen PPIs. Globally conserved inter-species bacterial PPIs based conserved host-pathogen interactome derived novel target in C. pseudotuberculosis, C. diphteriae, M. tuberculosis, C. ulcerans, Y. pestis, and E. coli targeted by Piper betel compounds. Integrative Biology, (2013), 5(3), 495-509.

Hauschild, A-C.; Kopczynski, D.; Addario, M.; Baumbach, J.I.; Rahmann, S.; Baumbach, J.
Peak Detection method Evaluation for Ion Mobility Sectrometry by Using Machine Learning Approaches. Metabolites, (2013), 3(2), 277-293.

Jungwirth, B.; Sala, C.; Kohl, T.A., Uplekar, S.; Baumbach, J.; Cole, S.T.; Pühler, A.; Tauch, A.
High-resolution detection of DNA binding sites of the global transcriptional regulator GlxR in Corynebacterium glutamicum. Microbiology (Reading, England), (2013), 159, Pt 1, 12-22.

Röttger, R.; Kalaghatgi, P.; Sun, P.; Soares, S.D.C.; Azevedo, V.; Wittkop, T.; Baumbach, J.
Density parameter estimation for finding clusters of homologous proteins-tracing actinobacterial pathogenicity lifestyles. Bioinformatics (Online), (2013), 29(2), 215-222.

Santos, A.R.; Pereira, V.B.; Barbose, E.; Baumbach, J.; Pauling, J.; Rottger, R.; Turk, M.Z.; Silva, A.; Miyoshi, A.; Azevedo, V
Mature Epitope Density – A strategy for target selection based on immunoinformatics and exported prokaryotic proteins. BMC Genomics, (2013), 14, suppl. 6, 1-11.

Schneider, T.; Hauschild, A-C.; Baumbach, J.I.; Baumbach, J.
An integrative clinical database and diagnostics platform for biomarker identification an analysis in ion mobility spectra of human exhaled air. Journal of integrative bioinformatics, (2013), 10(2).

Zakharkina, *T.; Heinzel, E.; Koczulla, R.A.; Greulich, T.; Rentz, K.; Pauling, J.K.; Baumbach, J.; Herrmann, M.; Grünewald, C.; Dienemann, H.; von Müller, L.; Bais, R.
Analysis of the Airway Microbiota of Healthy Individuals and Patients with Crhonic Obstructive Pulmonary Desease by T-RFLP and Clone Sequencing. PloS one, (2013), 8(7).

Ceron, E.; Bay, N.
A Methodology for Off-line Evaluation of New Environmentally Friendly Tribo-Systems for Sheet Metal Forming. CIRP Annals – Manufacturing Technology, (2013), 62, 231-234.

Ceron, E.; Bay, N.
Determination of friction in sheet metal forming by means of simulative tribo-tests. Key Engineering Materials, (2013), 549, 415-422.

Mori, K.; Bay, N.; Fratini, L. Micari, F.; Tekkaya, A.E.
Joining by plastic deformation. CIRP Annals – Manufacturing Technology, (2013), 62, 673-694.

Beelen, P.; Ruano, D.
Bounding the number of points on a curve using a generalization of Weierstrass semigroups. Desings, Codes and Cruptography, (2013), 66(1-3), 221-230.

Beelen, P.; Brøns, M.; Krishnamurthy, V.S.; Stremler, M.A.
Recent progress in the relative equilibria of point vortices – In memoriam Hassan Aref. I U T A M. Procedia, (2013), 7, 3-12.

Beelen, P.; Høholdt, T.; Nielsen, J.S.R.; Wu, Y.
On Rational Interpolation-Based List-Decoding and List-Decoding Binary Goppa Codes. I E E E Transactions on Information Theory, (2013), 59(6), 3269-3281.

Kardomateas, G.A.; Berggreen, C.; Carlsson, L.A.
Energy-release rate and mode mixity of face/core debonds in sandwich beams. AIAA Journal, (2013), 51(4), 885-892.

Moslemian, R.; Berggreen, C.
Interface fatigue crack propagation in sandwich X-joints – Part I: Experiments. Journal of Sandwich Structures and Materials, (2013), 15(4), 429-450.

Moslemian, R.; Berggreen, C.
Interface fatigue crack propagation in sandwich X-joints – Part II: Finite element modeling. Journal of Sandwich Structures and Materials, (2013), 15(4), 451-463.

Yang, Z,; Liu, S.; Bingham, H.B.; Li, J.
Second-order theory for coupling 2D numerical and physical wave tanks: Derivation, evaluation and experimental validation. Coastal Engineering, (2013), 71, 37-51.

Bissaco, G.; Tristo, G.; Hansen, H.N.; Valentincic, J.
Reliability of electrode wear compensation based on material removal per discharge in micro EDM milling. C I R P Annals, (2013), 61(1), 179-182.

Sabotin, I.; Tristo, G.; Bissacco, G.; Valentincic, J.
Optimization of Grooved Micromixer for Microengineering Technologies. Informacije MIDEM, (2013), 43, PART 1, 3-13.

Brander, D.; Svensson, M.
The geometric Cauchy problem for surfaces with Lorentzian harmonic Gauss maps. Journal of Differential Geometry, (2013), 93(1), 37-66.

Brander, D.; Svensson, M.
Timelike constant Mean Curvature Surfaces with Singularities. Journal Geometric Analysis, (2013).

Kim, Taeseong; Hansen, Anders Melchior; Branner, Kim
Development of an anisotropic beam finite element for composite wind turbine blades in multibody system. Renewable Energy, (2013), 59, 172-183.

Hansen, J.Z.; Brøndsted, P.
Determination of the minimum size of a statistical representative colume element from a fibre-reinforced composite based on point pattern statistics. Scripta Materialia, (2013), 68, 503-505.

Hansen, J.Z.; Brøndsted, P.
Quantitative study on the statistical properties of fibre architecture of genuine and numerical composite microstructures. Composites Part A: Applied Science and Manufacturing, (2013), 47, 124-134.

Hansen, J.Z.; Brøndsted, P.; Gillespie Jr.; J.W.
Fatigue damage propagation in unidirectional glass fibre reinforced composites made of a non-crimp fabric. Journal of Composite Materials, (2013).

Pupurs, A.; Goutianos, S.; Brøndsted, P.; Varna, J.
Interface debond crack growth in tension-tension cyclic loadingof single fiber polymer composites. Composites Part A: Applied Science and Manufacturing, (2013), 44, 86-94.

Hourigan, K.; Rao, Al; Brøns, M.; Leweke, T.; Thompson, M.C.; Yaojun Ge, S.C.
Vorticity generation and wake transition for a translating circular cylinder: Wall proximity and rotation effects. Journal of Wind Engineering & Industrial Aerodynamics, (2013), (122), 2-9.

Dam, M.; Brøns, M.; Juul Rasmussen, J.; Naulin, V.; Xu, G.
Bifurcation Analysis and Dimension Reduction of a Predator-Prey Model for the L-H Transition. Physics and Plasmas, (2013), 20(10).

Castaignet, Damien; Couchman, Ian; Poulsen, Niels Kjølstad; Buhl, Thomas; Wedel-Heinen, Jens Jakob.
Frequency-Weighted Model Predictive Control of Trailing Edge Flaps on a Wind Turbine Blade. I E E E Transactions on Control Systems Technology, (2013), 21(4), 1105-1116.

Réthoré, P-E.; Fuglsang, P.; Larsen, G.C.; Buhl, T.; Larsen, T.J.; Aagaard Madsen, H.
TOPFARM: Multi-fidelity optimization of wind farms. Wind Energy, (2013).

Bureau, E.; Schilder, F.; Santos, I.; Thomsen, J.J.; Starke, J.
Experimental bifurcation analysis of an impact oscillator – Tuning a non-invasive control scheme. Journal of Sound and Vibration, (2013), 322(22), 5883-5897.

Cerda, A.; Bjerregaard Nielsen, B.; Santos, I.
Steady state characteristics of a tilting pad journal bearing with controllable lubrication: Comparison between theoretical and experimental results. Tribology International, (2013), 58(1), 85-97.

Christensen, E.D.; Johnson, M.; Sørensen, O.R.; Hassager, C.B.; Badger, M.; Larsen, S.E.
Transmission of wave energy through an offshore wind turbine farm. Coastal Engineering, (2013), 82, 25-46.

Christensen, O.; Kim, H.O.; Kim, R.Y.
Extensions of Bessel Sequences to Dual Pairs of Frames. Applied and Computational Harmonic Analysis, (2013), 34(2), 224-233.

Christensen, O; Kim, H.O.; Kim, R.Y.
Regularity of Dual Gabor Windows. Abstract and Applied Analysis, (2013), (8).

Christensen, O.; Osgooei, E.
On frame properties for Fourier-like systems. Journal of Approximation Theory, (2013), 172, 47-57.

Christensen, O,; Xiao, X. C.; Zhu, Y.A.
Characterizing R-duality in Banach Spaces. Acta Mathematica Sinica, (2013), 29(1), 75-84.

Christiansen, L.H.; Christensen, O.
Construction of smooth compactly supported windows generating dual pairs of gabor frames. Asian-European Journal of Mathematics, (2013), 6(1).

Potarniche, C-G.; Vuluga, Z.; Christiansen, J.D.C.; Radovici, C.; Kristensen, P.
Influence of Two Compatibilizers on Clay/PP Nanocomposites Properties. Polymer Engineering and Scince, (2013), 53(2), 403-409.

Christiansen, T.L.; Somers, M.A.J.
HTPro: Low-temperature Surface Hardening of Stainless Steel. Advanced Materials & Processes, (2013), November-December, 52-53.

Christiansen, T.L.; Drouet, M.; Martinavicius, A.; Somers, M.A.J.
Isotope exchange investigation of nitrogen redistribution in expanded austenite. Scripta Materialia, (2013), 69(8), 582-585.

Christiansen, P.; Hattel, J.H.; Bay, N.; Alves, L.M.; Martins, P.A.
Open die forging of large shafts with porosity defects – physical and numerical modelling. Key Engineering Materials, (2013), 554-557, 2145-2155.

Clausen, Johan
Bearing Capacity of Circular Footings on a Hoek-Brown Material. International Journal of Rock Mechanics and Mining Sciences, (2013), 57, 34-41.

Ahrenfeldt, J.; Thomsen, T.; Henriksen, U.B.; Clausen, L.R.
Biomass gasification cogeneration – A review of state of the art technology and near future perspectives. Applied Thermal Engineering, (2013), 50, 1407-1417.

Canulescu, S.; Schou, J.; Fæster, S.; Hansen, K.V.; Conseil, H.
Deposition of matrix-free fullerene films with improved morphology by matrix-assisted pulsed laser evaporation (MAPLE). Chemical Physics Letters, (2013), 588, 119-123.

Cordtz, R.L.; Schramm, J.; Rabe, R.
Investigating SO_3 Formation from the Combustion of Heavy Fuel Oil in a Four-Stroke Medium Speed Test Engine. Energy & Fuels, (2013), 27(10), 6279-6286.

Cordtz, R.L.; Schramm, J.; Andreasen, A.; Eskildsen, S.S.; Mayer, S.
Modeling the Distribution of Sulfur Compounds in a Large Two Stroke Diesel Engine. Energy & Fuels, (2013), 27(3), 1652-1660.

Dahl, K.V.; Hald, J.
Identification of Precipatates in an IN792 Gas Turbine Blade after Service Exposure. Praktische Metallographie, (2013), 50(6), 432-450.

Tokairin, T.; Dahl, K.V.; Danielsen, H.K.; Grumsen, F.B.; Hald, J.; Sato, T.
Investigation on Long-term Creep Rupture Properties and Microstructure Stability of Fe-Ni based Alloy Ni-23Cr-7W at 700˚C. Materials Science & Engineering, (2013), 565, 285-291.

Lambertsen, Søren Heide; Damkilde, Lars; Kristensen, Anders Schmidt; Pedersen, Ronnie
Estimation of Fatigue Life of Laser Welded AISI304 Stainless Steel T-Joint Based on Experiments and Recommendations in Design Codes. World Journal of Mechanics, (2013), 3(3), 178-183.

Lambertsen, Søren Heide; Damkilde, Lars; Pedersen, Ronnie
Experimental Quantification of the Metallurgy changes Activated by Laser Welding in AISI 304 Stainless Steel. Journal of Manufacturing Science and Engineering, (2013).

Hansen, F.Y.; Bruch, L.W.; Dammann, B.
Atomic scattering from an adsorbed monolayer solid with a helium beam that penetrates to the substrate. Journal of Chemical Physics, (2013), 138(10).

Danielsen, H.K.; Nunzio, P.E.D.; Hald, J.
Kinetics of Z-phase Precipitation in 9 to 12 pct Cr Steel. Metallurgical and Materials Transactions A – Physical Metallurgy and Materials Science, (2013), 44(5), 2445-2452.

Ziaran, S.; Darula, R.
Determination of the State of Wear of High Contact Ratio Gear Sets by Means of Spectrum and Cepstrum Analysis. Journal of Vibration and Acoustics-Transactions of the ASME, (2013), 135(2).

Daviðsdóttir, S.; Canulescu, S., Dirscherl, K.; Schou, J.; Ambat, R.
Investigation of photocatalytic activity of titanium dioxide deposited on metallic substrates by DC magnetron sputtering. Surface and Coatings Technology, (2013), 216, 35-45.

Daviðsdóttir, S.; Dirschertl, K.; Canulescu, S.; Shabadi, R.; Ambat, R.
Nanoscale surface potential imaging of the photocatalytic TiO_2 films on aluminum. R S C Advances, (2013), 3(45), 23296-23302.

Debrabant, K.; Jakobsen, E.R.
Semi-Labrangian Schemes for Linear and Fully Non-Linear Diffusion Equations. Mathematics of Computation, (2013), 82(283), 1433-1462.

Jusko, O.; Banreti, E.; Bergmans, R.; De Chiffre, L.; Lassila, A.; Lewis, A.; Ramotowski, Z.; Saraiva, F.; Thalmann, R., Tuurner, P.; Zeleny, V.
Final report on RMO key comparison EURAMET.L-K6: CMM 2-D artifact: ball plate. Metrologia, (2013), 50(1A).

Santo, L.; Quadrini, F.; De Chiffre, L.
Forming of shape memory composite structures. Key Engineering Materials, (2013), 554-557, 1930-1937.

Della Morte, M.; Hernandez, P.
A non-perturbative study of massive gauge theories. Journal of High Energy Physics, (2013).

Aoki, S.; Aoki, Y.; Bernard, C.; Blum, T.; Colangelo, G.; Della Morte, M.; Dürr, S.; X.El Khadra, A.; Fukaya, H.; Horsley, R.; Kaneko, T.; Jüttner, A.; Laiho, J.; Lellouch, L.; Leutwyler, H.; Lubicz, V.; , Lunghi, E.; Necco, S.; Onogi, T.; Pena, C.; T. Sachrajda, C.; R. Sharpe, S.; Shigemitsu, J.; Simula, S.; Sommer, R.; S. Van de Water, R.; Vladikas, A.; Wenger, U.; Wittig, H.
Review of lattice results concerning low energy particle physics, (2013), European Physical Journal – Applied Physics.

Drozdov, A.D.; Christiansen, J.D.C.
Constructive equations in finite elasticity of swollen elastomers. International Journal of Solids and Structures, (2013), 50(9), 1494-1504.

Drozdov, A.D.; Klitkou, R.; Christiansen, J.D.C.
Effect of crystalline structure on the mechanical response of polypropylene under cyclic deformation. Journal of Polymer Engineering, (2013), 33(2), 181-190.

Drozdov, A.D.; Christiansen, J.D.C.
Constitutive Modeling of the Mechanical Response of Nanocomposite Hydrogels for Tissue Engineering, (2013), Procedia Engineering, 59, 37-45.

Drozdov, A.D.; Christiansen, J.D.C.
Stress-strain relations for hydrogels under multiaxial deformation. International Journal of Solids and Structures, (2013), 50(22-23), 3570-3585.

Drozdov, A.D.; Christiansen, J.D.C.
Time-Dependent Response of Polypropylene/Clay Nanocomposites Under Tension and Retraction. Polymer Engineering and Science, (2013), 53(5), 931-940.

Drozdov, A.D.; Christiansen, J.D.C.
Volume changes in hydrogels subjected to finite deformations. Mechanics Research Communications, (2013) 50 33-38.

Drozdov, A.D.; Klitkou, R.; Christiansen, J.D.C.
Cyclic viscoplasticity of semicrystalline polymers with Finite Deformations. Mechanics of Materials, (2013), 56, 53-64.

Drozdov, A.D.; Klitkou, R.; Christiansen, J.D.C.
Fading memory of loading history in polypropylene and a polypropylene/clay nanocomposite. Mechanics of Composite Materials, (2013), 49(1), 85-96.

Drozdov, A.D.; Klitkou, R.; Christiansen, J.D.C.
Multi-cycle deformation of semicrystalline polymers: Obervations and constitutive modeling. Mechanics Research Communications, (2013), 48, 70-75.

Drozdov, A.D.; Sommer-Larsen, P.; Christiansen, J.D.C.
Self-limiting lithiation of electrode nanoparticles in Li-ion batteries. Journal of Applied Physics, (2013), 144(22).

Tesauro, A.; Eder, M.A.; Nielsen, M.
Measurement of local relative displacements in large structures. Journal of Strain Analysis for Engineering Design, (2013).

El-Naaman, S.A.; Nielsen, K.L.
Observations on Mode I ductile tearing in sheet metals. European Journal of Mechanics A – Solids, (20131), 42, 54-62.

Endelt, B.Ø.; Tommerup, S.; Danckert, J.
A novel feedback control system – Controlling the material flow in deep drawing using distributed blank-holder force. Journal of Materials Processing Technology, (2013), 213(1), 36-50.

Andersen, S.B.; Enemark, S.; Santos, I.
Dynamics and stability of rigid rotors levitated by passive cylinder-magnet bearings and driven/supported axially by pointwise contact clutch. Journal of Sound and Vibration, (2013), 332(25), 6637-6658.

Deublein, M.; Schubert, M.; Adey, B.T.; Köhler, J.; Faber, M.H.
Prediction of road accidents. A Bayesian hierarchical approach. Accident Analysis & Prevention, (2013), 51, 274-291.

Fischer, K.; Virguez, E.; Sánchez-Silva, M.; Faber, M.H.
On the assessment of marginal life saving costs for risk acceptance criteria. Structural Safety, (2013), 44, 37-46.

Kærgaard, K.H.; Fredsøe, J.
A numerical shoreline model for shorelines with large curvature. Coastal Engineering, (2013), 74, 19-32.

Kærgaard, K.H.; Fredsøe, J.
Numerical modeling of shoreline undulations part 1: Constant wave climate. Coastal Engineering, (2013), 75, 64-76.

Kærgaard, K.H.; Fredsøe, J.
Numerical modeling of shoreline undulations part 2: Varying wave climate and comparison with observations. Coastal Engineering, (2013), 75, 77-90.

Fuhrman, D.R.; Schløer, S.; Sterner, J.
RANS-based simulation of turbulent wave boundary layer and sheet-flow sediment transport processes. Coastal Engineering, (2013), 73, 151-166.

Chen, J.; Georgakis, C.T.
Tuned rolling-ball dampers for vibration control in wind turbines. Journal of Sound and Vibration, (2013), 332(21), 5271-5282.

Sarban, R.; Guðlaugsson, T.V.
Platform based design of EAP tranducers in Danfoss PolyPower A/S. Proceedings of SPIE, the International Society for Optical Engineering, (2013), 8687.

Godi, A.; Kühle, A.; De Chiffre, L.
A new procedure for characterizing textured surfaces with a deterministic pattern of valley features. Measurement Science and Technology, (2013), 24(8).

Godi, A.; Grønbæk, J.; Mohagheg, K.; Klit, P.; De Chiffre, L.
A New Rig for Testing Textured Surfaces in Pure Sliding Conditions. Tribology Letters, (2013), 50(3), 397-405.

Godi, A.; Mohaghegh, K.; Grønbæk, J.; Klit, P.; De Chiffre, L.
Testing of newly developed funcitonal surfaces under pure sliding conditions. Tribology Letters (2013), 51(1), 171-180.

Guðlaugsson, T.V.; Mortensen, N.H.; Sarban R.
EAP high-level product architecture. Proceeding of SPIE, the International Society for Optical Engineering, (2013), 8687.

Haider, S.; Schnipper, T.; Obeidat, A.; Meyer, K.E.; Okulov, V.; Walther, J.H.; Mayer, S.
PIV study of the effect of piston position on the in-cylinder swirling flow during the scavenging process in large two-stroke marine diesel engines. Journal of Marine Science and Technology, (2013), 18(1), 133-143.

Hansen, C.T.; Lenau, T.A.
A Product Analysis Method and its Staging to Develop Redesign Competences. Advances in Engineering Education, (2013), 3(4).

Gish, L.; Hansen, C.T.
A socio-technical analysis of work with ideas in NPD: an industrial case study. Research in Engineering Design, (2013), 24, 411-427.

Fantoni, G.; Hansen, H.N.; Santochi, M.
A new capillary gripper for mini and micro parts. C I R P Annals, (2013), 62(1), 17-20.

Malshe, A.; Rajurkar, K.; Samant, A.; Hansen, H.N.; Bapat, S.; Jiang, W.
Bio-inspired functional surfaces for advanced applications. CIRP Annals – Manufacturing Technology, (2013), 62(2), 607-628.

Gaumond, M.; Réthoré, P-E.; Ott, S.; Pëna, A.; Bechmann, A.; Hansen, K.S.
Evaluation of the wind direction uncertainty and its impact on wake modeling at the Horns Rev offshore wind farm. Wind Energy, (2013).

Larsen, G.C.; Hansen, K.S.
De-trending of wind speed variance based on first-order and second-order statistical moments only. Wind Energy, (2013).

Larsen, T.J.; Aagaard Madsen, H.; Larsen, G.C.; Hansen, K.S.
Validation of the dynamic wake meander model for loads and power production in the Egmond aan Zee wind farm. Wind Energy, (2013), 16(4), 605-624.

Nwaogu, U.C.; Hansen, K.S.; Tiedje, N.S.
Design and production of a novel sand materials strength testing machine for foundry applications. International Foundry Research, (2013), 64(2).

Andersen, M.S.; Hansen, P.C.
Generalized Row-Action Methods for Tomographic Imaging. Numerical Algorithms, (2013), 23.

Hauksdóttir, D.; Mortensen, N.H.
Identification of a reusable requirements structure for embedded products in a dynamic market environment. Computers in Industry, (2013), 64, 351-362.

Haselbach, P.U.; Natarajan, A.; Jiwinangun, R.G.; Branner, K.
Comparisoin of coupled and uncoupled load simulations on a jacket support structure. Energy Procedia, (2013), 35, 244-252.

Schmidt Paulsen, U.; Aagaard Madsen, H.; Hattel, J.H.; Baran, I.; Nielsen, P.H.
Design Optimization of a 5 MW Floating Offhore Vertical–axis Wind Turbine. Energy Procedia, (2013), 35, 22-32.

Tutum, C.C.; Deb, K.; Hattel, J.H.
Multi-Criteria Optimization in Friction Stir Welding Using a Thermal Mode with Prescribed Material Flow. Materials & Manufacturing Processes, (2013), 28(7), 816-822.

Klinkvort, R.T.; Hededal, O.
Lateral response of monopile supporting an offshore wind turbine. Institution of Civil Engineers. Proceedings. Geotechnical Engineering, (2013), 166(2), 147.

Fernández, B.; Henriksen, C.; Farrelly, D.
Refined ab Initio Intermolecular Ground-State Potential Energy Surface for the He-, C_2H_2 van der Waals Complex. Molecular Physics, (2013), 111(9-11), 1173-1177.

Munteanu, C.; Henriksen, C.; Felker, P.M.; Fernández, B.
He-, Ne-; and Ar-phosgene Intermolecular Potential Energy Surfaces. Journal of Physical Chemistry Part A: Molecules, Spectroscopy, Kinetics, Environment and General Theory, (2013), 117(18), 3835-3843.

Howard, T.J.; Andreasen, M.M.
Mind-sets of functional reasoning in engineering design. Artificial Intelligence for Engineering Design, Analysis and Manufacturing, (2013), 27(3), 233-240.

Nielsen, M.W.; Schmidt, J.W.; Høgh, J.H., Waldbjørn, J.P.; Hattel, J.H.; Løgstrup Andersen, T.; Markussen, C.M.
Life cucle strain monitoring in glass fibre reinforced polymer laminates using embedded fibre Bragg grating sensors from manufacturing to failure. Journal of Composite Materials, (2013), 1-17.

Huang, F.W.D.; Nebel, M.E.; Reidys, C.M.
Generation of RNA psudoknot structures with topological genus filtration. Mathematical Biosciences, (2013), 245(2), 216-225.

Bhowmik, S.; Weber, F.; Høgsberg, J.B.
Experimental calibration of forward and inverse neural networks for rotary type magnetorheological damper. Structural Engineering and Mechanics, (2013), 46(5), 673-693.

Damgaard, Mads; Ibsen, Lars Bo; Andersen, Lars Vabbersgaard; K.F. Andersen, Jacob.
Cross-Wind Modal Properties of Offshore Wind Turbines Identified by Full scale Testing. Journal of Wind Engineering & Industrial Aerodynamics, (2013) 116(May), 94-108.

Foglia, Aligi; Ibsen, Lars Bo;
A Similitude Theory for Bucket Foundations Under Monotonic Horizontal Load in Dense Sand. Geotechnical and Geological Engineering, (2013), 31(1), 133-142.

Larsen, Kim André; Ibsen, Lars Bo; Barari, Amin
Modified Expression for the Failure Criterion of Bucket Foundations Subjected to Combined Loading. Canadian Geotechnical Journal, (2013), 50(12), 1250-1259.

Sørensensen, Søren Peder Hyldal; Ibsen, Lars Bo
Assesment of Foundation Design for Offsore Monopiles Unprotected against Scour. Ocean Engineering, (2013), 63, 17-25.

Sørensen, Søren Peder Hyldal; Ibsen, Lars Bo; Foglia Aligi
Testing of Laterally Loaded Rigid Piles with Applied Overburden Pressure. International Journal of Offshore and Polar Engineering, (2013).

Ingvorsen, K.M.; Meyer, K.E.; Walther, J.H.; Mayer, S.
Turbulent swirling flow in a mocel of a uniflow-scavenged two-stoke engine. Experiments in Fluids, (2013), 54(3) art. no. 1494.

Jabbari, M.
Effect of the Preheating Temperature on Process Time in Friction Stir Welding of Al 6061-T6. Journal of Engineering, (2013), Article ID 5808055.

Jabbari, M.; Spangenberg, J.; Hattel, J.H.
Interface Behavior in Fuctionally Graded Ceramics for the Magnetic Refrigeration: Numerical Modeling. Applied Mechanics and Materials, (2013), 325-326, 1362-1367.

Jabbari, M.; Spangenberg, J.; Hattel, J.H.
Modeling of the interface behavior in tpae casting of functionally graded ceramics for magnetic refrigeration parts. International Journal of Refrigeration, (2013), 36(8), 2403-2409.

Jabbari, M.; Hosseinzadeh, A.
Numerical modeling of coupled heat transfer and phase transformation for solidification of the gray cast iron. Computational Materials Science, (2013), 68, 160-165.

Jabbari, M.; Hattel, J.H.
Numerical Modeling of the Side Flow in Tape Casting of a Non-Newtonian Fluid. American Ceramic Society, (2013), 96(5), 1414-1420.

Jabbari, M.; Tutum, C. C.
Optimum Rotation Speed for the Friction Stir Welding of Pure Copper. I S R N Materials Science, (2013).

Jabbari, M.; Bulatova, R.; Hattel, J.H.; Bahl, C.R.H.
Quasi-steady state power law model for flow of $(La_{0\cdot85}Sr_{0\cdot15})_{0\cdot9}MnO_3$ ceramic slurry in tape casting. Materials Science and Technology, (2013), 29(9), 1080-1087.

Jakobsen, J.; Andreasen, J.H.; Thomsen, O.T.
A Comparison of gel point for a Glass/Epoxy Composite and a Neat Epoxy Material during Isothermal Curing. Journal of Composite Materials, (2013), 48(2), 1-14.

Jakobsen, J.; Jensen, M.; Andreasen, J.H.
Thermo-Mechanical Characterisation of In-plane Properties for CSM E-glass Expoxy Polymer Composite Materials: Part 1: Thermal and Chemical Strain. Polymer Testing, (2013), 32(8), 1350-1357.

Jakobsen, J.; Jensen, M.; Andreasen, J.H.
Thermo-Mechanical Characterisation of In-plane Properties for CSM E-glass Expoxy Polymer Composite Materials: Part 2: Young's Modulus. Polymer Testing, (2013), 32(8), 1417-1422.

Jakobsen, K.R.; Vincent, C.L.
Mesoscale modeling of South Greenland. Geophysical Research Abstracts, (2013), 15.

Rathinavelu, U.; Jellesen, M.S.; Ambat, R.
Effect of solder flux residue on the performance of silicone conformal coatings on printed circuit board assemblies. Corrosion Engineering, Science and Technology, (2013), 48(6), 436-444.

Thyssen, J.P.; Johansen, J.D.; Jellesen, M.S.; Møller, P.; Sloth, J.J.; Zachariae, B.; Menne, T.
Consumer leather exposure: an unrecognized cause of cobalt sensitization. Contact Dermatitis, (2013), 69(5), 276-279.

Thyssen, J.P.; Johansen, J.D.; Menné, T.; Jellesen, M.S.
Does cobalt spot testing of copper items result in false-positive test reactions? Contact Dermatitis, (2013), 69, 387-388.

Steffensen, S.; Kibsgaard, R. L.; Jensen, H.M.
Debonding of Particles in Thin Films. International Journal of Solids and Structures. (2013).

Steffensen, S.; Madsen, N.D.; Jensen, H.M.
Numerical estimation of fracture toughness from indentation-induced circumferential cracking in thin films on ductile substrates. International Journal of Solids and Structures, (2013), 50(20-21), 3406-3417.

Veluri, B.; Jensen, H.M.
Modeling Delamination of Interfacial Corner Cracks in Multilayered Structures. Key Engineering materials, (2013), 525-526(509), 509-512.

Veluri, B.; Jensen, H.M.
Steady-state propagation of interface corner crack. International Journal of Solids and Structures, (2013), 50(10), 1613-1620.

Soares, C.G.; Jensen, J.J.; Incecik, A.; Downes, J.; Romanoff, J.; Gordo, J.M.; Fricke, W.; Jastrzebski, T.; Hayman, B.; Besnard, N.; Codda, M.; Garbatov, Y, Teixeira, A.P.
European Research in Marine Structures. Society of Naval Architects and Marine Engineers Transactions, (2013), 119(47).

Paz-Garcia, J.M.; Johannesson, B.; Ottosen, L.M.; Ribeiro, A.B.; Rodríguez-Maroto, J.M.
Computing multi-species chemical equilibrium with an algorithm based on the reaction extents. Computers and Chemical Engineering, (2013), 58, 135-143.

Juhl, T.B.
Forståelse og forbedring af lasersvejsning af plast. Plat Panorama Scandinavia, (2013), 6, 14-15.

Juhl, T.B.; Bach, D.; Larson, R.G.; Christiansen, J.D.C.; Jensen, E.A.
Predicting the laser weldability of dissimilar polymers. Polymer, (2013), 54(15, 3891-3897.

Juhl, T.B., Christiansen, J.D.C.; Jensen, E.A.
Investigation on High Strengthe Laser Welds of Polypropylene and High-Density Polyethylene. Journal of Applied Polymer Science, (2013), 129(5), 2679-2685.

Juhl, T.B.; Christiansen, J.D.C.; Jensen, E.A.
Mechanical testing of polystyrene/polystyrene laser welds. Polymer Testing, (2013), 32(3), 475-481.

Andreassen, M.J.; Jönsson, J.
A distortional semi-descretized thin-walled beam element. Thin-Walled Structures, (2013), 62, 142-157.

Kirkegaard, Poul Henning
Unfolding Uton: addition and repetition. A&D Skriftserie, (2013), 78, 6-9.

Brorson Fich, Lars; Jönsson, Peter; Kirkegaard, Poul Henning; Wallergård, Mattias; Garde, Anne Helene; Hansen, Åse
Architectural design can alter the physiological reactgion to psychosocial stress; permeability theory predicts differences in cortisol level. Environment and Behavior (2013).

Brorson Fich, Lars; Hansen, Åse Marie; Kirkegaard, Poul Henning
Architecture and the Biology of Consciousness. A R Q: Architectural Research Quarterly (2013).

Brorson Fich, Lars; Jönsson, Peter; Kirkegaard, Poul Henning; Wallergård, Mattias; Garde, Anne Helene; Hansen, Åse
Psychosocial stress can be influenced by architecture; a virtual TSST experiment. Psychoneuroendocrinology (2013).

Stidsen, Lone Mandrup; Thuesen, Nielsen; Kirkegaard, Poul Henning
Mapping Light Atmosphere – Seen through the Danish interior Design magazine BO BEDRE, Nordic Journal of Architecture, (2013).

Stidsen, Lone Mandrup; Kirkegaard, Poul Henning; Bjerrum, Henriette
On Lighting Hopital wards: a cultural approach using light preferences as inspiration for the design concept. Journal of Interior Design, (2013).

Tvedebrink, Tenna Doktor Olsen; Fisker, Anna Marie; Kirkegaard, Poul Henning
Architectural Theatricality: A food design perspective in hospitality studies. Hospitality & Society, (2013), 3(3), 189-210.

Tvedebrink, Tenna Doktor Olsen; Fisker, Anna Marie; Kirkegaard, Poul Henning
Sygdommens Spiserum: Har arkitekturen en overset eller glemt betydning her? Tidsskrift for forkning i sygdom og samfund, (2013) 10(18), 21-38.

Kjartansdóttir, C.K.; Nielsen, L.P.; Møller, P.
Development of durable and efficient elctrodes for large-scale alkaline water electrolysis. International Journal of Hydrogen Energy, (2013), 38(20), 8221-8231.

Klonovs, J.; Petersen, C.K.; Olesen, H.; Hammershøj, A.
ID Proof on the Go: Development of a Mobile EEG-Based Biometric Authentication System. I E E E Vehicular Technology Magazine, (2013), 8(1), 81-89.

Karamehmedovic, M.; Knudsen, K.
Inclusion estimation from a single electrostatic boundary measurement. Inverse Problems, (2013), 29(2).

Borghoff, J.; Knudsen, L.R.; Thomsen, S.S.
Slender-Set Differentil Cryptanalysis. Journal of Cryptology, (2013), 26(1), 11-38.

Kook, J.; Jensen, J.S.; Wang, S.
Acoustical topology optimization of Zwicker's loudness with Padé approximation. Computer Methods in Applied Mechanics and Engineering, (2013), 255, 40-66.

Krenk, S.
Time-domain analysis of frequency dependent inertial wave forces on cylinders. Computers and Structures, (2013), 126, 184-192.

Krenk, S.; Høgsberg, J.
Equal modal damping design for a family of resonant vibration control formats. Journal of Vibration and Control, (2013), 19(9), 1294-1315.

Kristensen, S.E.; Drønen, N.;Deigaard, R.; Fredsøe, J.
Hybrid morphological modelling of shoreline response to a detached breakwater. Coastal Engineering, (2013), 71, 13-27.

Kristiansen, K.U.; Wulff, C.
Exponential Estimates of Slow Manifolds. Nonlinearity, (2013).

Krüger, V.; Herzog, D.
Tracking in Object Action Space. Computer Vision and Image Understanding, (2013), 117(7), 764-789.

Kærn, M.R.; Elmegaard, B.; Larsen, L.F.
Comparison of fin-and-tube interlaced and face split evaporators with flow maldistribution and compensation. International Journal of Refrigeration, (2013), 36(1), 203-214.

Jansen, M.; Lazarov, B.S.; Shevenels, M.; Sigmund, O.
On the similarites between micro/nano lithography and topology optimization projection methods. Structural and Multidisciplinary Optimization, (2013, 48(4), 717-730.

Larsen, U.; Pierobon, L.; Haglind, F.; Gabrielii, C
Design and optimisation of organic Rankine cycles for waste heat recovery in marine applications using the principles of natural selection. Energy, (2013), 55, 803-812.

Larsen, U.; Pierobon, L.; Wronski.J.; Haglind, F.
Multiple regression models for the prediction of the maximum obtainable thermal efficiency of organic Rankine cycles. Energy, (2013) 8.

Riisgård, H.U.; Pleissner, D.; Larsen, P.S.; Lundgreen, K.
Growth of mussels *Mytilus edulis* at algal (*Rhodomonas salina*) concentrations below and above saturation level for reduced filtration rate. Marine Biology Research, (2013), 9(10), 1005-1017.

Laustsen, S.; Lund, E.; Kühlmeier, L.; Thomsen, O.T.
Development of a High-fidelity Experimental Substructure Test Rig for Grid-scored Sandwich Panels in Wind Turbine Blades. Strain (Online), (2013), 50(2), 111-131.

Lemvig, J.; Miller, C.; Okoudjou, K.A.
Prime tight frames. Advances in Computational Mathematics, (2013).

Lemvig, J.; Krahmer, F.; Kutyniok, G.
Sparse Matrices in Frame Theory. Computational Statistics, (2013).

Krahmer, F.; Kutynior, G.; Lemvig, J.
Sparsity and Spectral Properties of Dual Frames. Linear Algebra and Its Applications, (2013), 449(4), 982-998.

Lilholt, H.; Madsen, B.
Natural Composites: Cellulose Fibres and the related Performance of Composites. International Journal of Materials Engineering Innovation, (2013).

Schultz-Jensen, N.; Thygesen, A.; Thomsen, S.T.; Leipold, F.; Roslander, C.; Lilholt, H.; Bjerre, A.B.
Pretreatment of the macroalgae Chaetomorpha linum for the production of bioethanol – Comparison of five pretreatment technologies. Bioresource Technology, (2013), 140, 36-42.

Lomholt, T.N.; Adachi, Y.; da Silva Fanta, A.B.; Pantleon, K.; Somers, M.A.J.
Partial transformation of austenite in Al-Mn-Si TRIP steel upon tensile straining: an in situ EBSD study. Materials Science and Technology, (2013), 29(11), 1383-1388.

Kimiaeifar, Amin; Lund, Erik; Thomsen, Ole Thybo, Sørensen, John Dalsgaard
Asymptotic Sampling for Reliability Analysis of Adhesive Bonded Stepped Lap Composite Joints. Engineering Structures, (2013), 49(April), 655-663.

Madsen, B.; Garmsted, E.K.
Wood versus plant fibers: Similarities and differences in composite applications. Advances in Materials Science and Engineering, (2013), 2013, 564346.

Aslan, M.; Mehmood, S.; Madsen, B.
Effect of consolidation pressure on columetric compositon and stiffness of uniderectional flax fibre composites. Journal of Materials Science, (2013) 48, 3812-3824.

Løvdal, A.L.V.; Laursen, L.L.; Løgstrup Andersen, T.; Madsen, B.; Mikkelsen, L.P.M.
Influence of Temperature on Mechanical Properties of Jute/Biopolymer Composites. Journal of Applied Polymer Science, (2013) 128(3), 2038-2045.

Madsen, J.B.; Pakkanen, K.I.; Lee, S.
Investigation of the Thermostability of Bovine Submaxillary Mucin (BSM) and its Impact on Lubrication. APCBEE Procedia, (2013), 7, 21-26.

Mahshid, R.; Hansen, H.N.; Arentoft, M.
Accuracy of transferring microparts in a multi stage former. Key Engineering Materials, (2013), 554-557, 900-907.

Bohr, J.; Markvorsen, S.
Ribbon Crystals. P L o S One, (2013), 8(10).

Achiche, S.; Appio, F.P.; McAloone, T.C.; Minin, A.D.
Fuzzy Decision Support for Tools Selection in the Core Front end Activities of New Product Development. Research in Engineering Design, (2013), 24, 1-18.

Antelmi Pigosso, D.C.; Rozenfeld, H.; McAloone, T.C.
Ecodesign maturity model: a management framework to support ecodesign implementation into manufacturing companies. Journal of Cleaner Production, (2013), 59, 160-173.

Appio, F.P.; Achiche, S.; McAloone, T.C.; Howard, T.J.
An inquiry on managers use of decision-making tools in the core front end of the innovation process. International Journal of Product Development, (2013), 18(6), 461-491.

Bey, N.; Hauschild, M.Z.; McAloone, T.C.
Drivers and barriers for implementation of environmental strategies in manufacturing companies. C I R P Annals, (2013), 62(1), 43-46.

Keck, R-E.; Mikkelsen, R.F.; Troldborg, N.; de Maré, M.; Hansen, K.S.
Synthetic atmospheric turbulence and wind shear in large eddy simulations of wind turbine wakes. Wind Energy, (2013).

Mishnaevsky, L.; Levashov, E.
Editorial: Selected Publications of the EU FP7 project VIRTUAL NANOTITANIUM. Computational Materials Science, (2013), 76, 1-2.

Mishnaevsky, L.; Zhou, H.W.; Peng, R.D.; Dai, G.; Wang, H.W.
Polymer Nanocomposites for Wind Energy Applications. Perspectives and Computational Modeling. Proceedings of the International Conference Nanomaterials: Applications and Properties, (2013), 2(4).

Mishnaevsky, L; Zhou, H.W.; Yi, H.Y.; Peng, R.D.; Wang, H.W.; Dai, G.; Gui, L.L.; Zhang, X.
Microscale damage mechanisms and degradation of fiber-reinforced composites for wind energy applications: results of Danish-Chinese collaborative investigations. Journnal of Composite Materials, (2013).

Dai, G.; Mishnaevsky, L.
Damage evolution in nanoclay-reinforced polymers. A three-dimensional computational study. Composites Science and Technology, (2013), 74, 67-77.

Liu, H-S.; Mishnaevsky, L.
Martensitic transformations in nanostructured nitinol: Finite element modeling of grain size and distribution effects. Computational Materials Science, (2013), 76, 27-36.

Zhou, H.W.; Wang, C.P.; Mishnaevsky, L.; Duan, Z.Q.; Ding, J.Y.
A fractional derivative approach to full creep regions in salt rock. Mechanics of Time Dependent Materials, (2013), 17(3), 413-425.

Zhou, H.W.; Li, H.Y.; Gui, L.L.; Dai, G.; Peng, R.D.; Wang, H.W.; Mishnaevsky, L.
Compressive damage mechanicsm of GFRP composites under off-axis loading: Experimental and numerical investigations. Composites Part B: Engineering, (2013), 55, 119-127.

Mohanty, S.; Tutum, C.C.; Hattel, J.H.
Cellular scanning strategy for selective laser melting: Evolution of optimal grid-based scanning path & parametric approach to thermal homogeneity. Proceedings of SPIE, the International Society for Optical Engineering, (2013), 8608

Montgomery, M.; Hansson, A.N.; Jensen, S.A.; Vilhelmsen, T.; Nielsen, N.H.
In situ corrosion testing of various nickel alloys at Måbjerg waste incineration plant. Materials and Corrosion, (2013), 64(1), 14-25.

Mortensen, N.H.; Steen Jensen, T.; Nielsen, O.F.
Product Platform Screening at LEGO. International Journal of Industrial Engineering, (2013), 19(11), 444-455.

Hvam, L.; Haug, A.; Mortensen, N.H.; Thuesen, C.
Observed benefits from product configuration systems. International Journal of Industrial Engineering (Online), (2013), 20(5-6), 329-338.

Mourtisen, H.; Derbyshirec, R.; Sallaeickene, J.; Mouritsen, O.Ø.; Froste, B.J.; Norrisc, D.R.
An experimental displacemenet and over 50 years of tag-recoveries show that monarch butterflies are not true navigators. Proceeding of the National Academy of Science of the United States of America, (2013), 110(18).

Langer, T.H.; Iversen, T.K.; Mouritsen, O.Ø.; Ebbesen, M.K.; Hansen, M.R.
Suspension system performance optimization with discrete design variables. Structural and Multidisciplinary Optimization, (2013), 47(4), 621-630.

Sørensen, S.E.; Hansen, M.R.; Ebbesen, M.K.; Mouritsen, O.Ø.
Non-linear optimization of track layouts in loop-sorting–systems. Automation in Construction, (2013), 31, 19-30.

Zainali, K.; Danscher, G.; Jakobsen, T.; Baas, J.; Møller, P.; Bechtold, J.E.; Soballe, K.
Assessment of modified gold surfaced titanium implants on skeletal fixation. Journal of Biomedical Materials Research, (2013), Part A, 101A(1), 195-202.

Nguyen, T-V.; Pierobon, L.; Elmegaard, B.; Haglind, F.; Breuhaus, P.; Voldsund, M.
Exergetic assessment of energy systems on North Sea oil and gas platforms. Energy, (2013), 62, 23-36.

Nielsen, C.V.; Fernandes, J.L.; Marting, P.A.F.
All-hexahedral meshing and remeshing for multi-object manufacturing applications. Computer-Aided Design, (2013), 45(5), 911-922.

Watson, J.; Nielsen, J.H.; Overend, M.
A critical flaw size approach for predicting the strength of bolted glass connections. Engineering Structures, (2013), 57, 87-99.

Nielsen, K.L.; Niordson, C.F.
A 2D finite element implementation of the Fleck-Willis strain-gradient flow theory. European Journal of Mechanics A – Solids, (2013), 41, 134-142.

Nielsen, P.S.; Nielsen, M.S.; Bay, N.
Size effects in winding roll formed profiles: A study of carcass production for flexible pipes in offshore industry. Key Engineering Materials, (2013), 549, 117-124.

Nielsen, Søren R.K.; Zhou, Qiang; Kramer, Morten; Basu, Biswajit; Zhang, Zili
Optimal Control Of Nonlinear Wave Energy Point Converters. Ocean Engineering, (2013), 72 (November), 176-187.

Fitzgerald, B.; Basi, Biswajit; Nielsen, Søren R.K.
Active Tuned Mass Dampers for Control of In-Plane Vibrations of Wind Turbine Blades. Sturctural Control and Health Monitoring, (2013), 20(12), 1377-1396.

Dahlberg, C.F.O.; Faleskog, J.;Niordson, C.F.; Legarth, B.N.
A deformation mechanism map for polycrystals modeled using strain gradient plasticity and interfaces that slide and separate. International Journal of Plasticity, (2013), 43, 177-195.

Oztop, M.S.; Niordson, C.F.; Kysar, J.W.
Length-scale effect due to periodic variation of geometrically necessary dislocation densities. International Journal of Plasticity, (2013), 41, 189-201.

Nørtoft, P.; Gravesen, J.
Isogeometric shape optimization in fluid mechanics. Structural and Multidisciplinary Optimization, (2013), 48(5), 909-925.

Olesen, C.G.
Computermodel med tryksår. Aktuel Naturvidenskab, (2013), 1-34-36.

Olesen, C.G.; Pennisi, C.P.; deZee, M.; Zachar, V.; Rasmussen, J.
Elliptical posts allow for detailed control of non-equibiaxial straining of cell cultures. Journal of Tissue Viability, (2013), 22(2), 52-56.

Andreasen, J.; Olesen, C.G.; Rasmussen, J.; Nielsen, S.K.; Nguyen, L.; Larsen, P.
Is a computer based measurement method superior to a recommended manual method by the ROHO® Group to assess pressure in the sitting positon? Australian Occupational Therapy Journal, (2013), 60, 350-355.

Olesen, J.F.; Poulsen, P.N.
An embedded crack in a constant strain triangle utilizing extended finite element concepts. Computers & Structures, (2013), 117, 1-9.

Niu, B.; Olhoff, N.
Minimization of Vibration Power Transmission from Rotating Machinery to a Flexible Supporting Plate. International Journal of Structural Stability and Dynamics, (2013), 14(3).

Omarsson, S.; Dahlblom, O.
Finite element modelling of moisture related and visco-elastic deformations in inhomogeneous timer beams. Engineering Structures, (2013), 49, 182-189.

Larsen, F.; Ormarsson, S.
Numerical and experimental study of moisture-induced stress and strain field developments in timer logs. Wood Science and Technology, (2013), 47(4), 837-852.

Eshkorr, R.A.; Oshkovr, S.A.; Sulong, A.B.; Zulkifli, R.; Ariffin, A.K.; Azhari, C.H.
Effect of trigger configuration on the crashworthiness characteristics of natural silk epoxy composite tubes. Composites Part B Engineering, (2013), 55(1), 5-10.

Prabhakaran, R.T.D.; Pillai, S.; Mamani, S.C.; Oshkovr, S.A.; Knudsen, H.; Løgstrup Andersen, T.; Bech, J.I.; Thomsen, O.T.; Lilholt, H.
Effect of Polymer Form and its Consolidation on Mechanical Properties and Quality of Glass/PBT Composites. Applied Composite Materials, (2013), 1-24.

Leong, M.K.; Overgaard, L.C.T.; M Daniel, I.; Lund, E.; Thomsen, O.T.
Interlaminar/interfiber failure of unidirectional glass fiber reinforced composites used for wind turbine blades. Journal of Composite Materials, (2013), 47, 3), 353-368.

Ng, H.K.; Gan, S.; Ng, J-H.; Pang, K.M.
Development and validation of a reduced combined biodiesel-diesel reaction mechanism. Fuel, (2013), 104, 620-634.

Ng, H.K.; Gan, S.; Ng, J-H.; Pang, K.M.
Simulation of biodiesel combustion in a light-duty diesel engine using integrated compact biodiesel-diesel reaction mechanism. Applied Energy, (2013), 102, 1275-1287.

Poon, H.M.; Ng, H.K.; Gan, S.; Pang, K.M.; Schramm, J.
Evaluation and Development of Chemical Kinetic Mechanism Reduction Scheme for Biodiesel and Diesel Fuel Surrogates. S A E International Journal of Fuels and Lubricants, (2013), 6(3).

Alimadadi, H.; da Silva Fanta, A.B.; Pantleon, K.
The complementary use of electron backscatter diffraction and ion channeling imaging for the characterization of nanotwins. Journal of Microscopy, (2013), 249(2), 111-118.

Becker, H.; Pantleon, W.
Work-hardening stages and deformation mechanism maps during tensile deformation of commercially pure titanium. Computational Materials Science, (2013), 76, 52-59.

Lin, F.; Leffers, T.; Juul Jensen, D.; Pantleon, W.
Effects of widening during rolling on the subsequent recrystallization kinetics of copper. Materials Science Forum, (2013), 753, 285-288.

Niehuesbernd, J.; Müller, C.; Pantleon, W.; Bruder, E.
Quantification of local and global elastic anisotropy in ultrafine grained gradient microstructures, produced by linear flow splitting. Materials Science and Engineerinig A: Structural Materials: Properties, Microstructures and Processing, (2013), 560, 273-277.

Wejdemann, C.; Poulsen, H.F.; Lienert, U.; Pantleon, W.
In Situ Observation of the Dislocation Structure Evolution During a Strain Path Change in Copper. J O M, (2013), 65(1), 35-43.

Duelund, L.; Jensen, G.V.; Hannibal-Bach, H.K.; Ejsing, C.S.; Pedersen, J.S.; Pakkanen, K.I.; Ipsen, J.H.
Composition, structure and properties of POPC-triolein mixtures. Evidence of triglyceride domains in phospholipid bilayers. Biochimica et Biophysica Acta (BBA)/Biomembranes, (2013), 1828(8), 1909-1917.

Andersen, U.V.; Pedersen, D.B.; Hansen, H.N.; Nielsen, J.S.
In-process 3D geometry reconstruction of objects produced by direct light projection. International Journal of Advanced Manufacturing Technology, (2013), 68(1-4), 565-573.

Pedersen, N.L.
Optimization of bolt thread stress concentrations. Archive of Applied Mechanics, (2013), 83(1), 1-14.

Pedersen, N.L.
Overall bolt stress optimization. Journal of Strain Analysis for Engineering Design, (2013), 48(3), 155-165.

Pedersen, P.; Pedersen, N.L.
On strength design using free material subjected to multiple load cases. Structural and Multidisciplinary Optimization, (2013), 47(1), 7-17.

Kim, D.K.; Pedersen, P.T.; Paik, J.K.; Kim, H.B.; Zhang, X.; Kim, M.S.
Safety guidelines of ultimate hull girder strength for grounded container ships. Safety Science, (2013), 59, 46-54.

Antipin, O.; Mojaza, M.; Pica, C.; Sannino, F.
Magnetic fixed points and emergent supersymmetry. Journal of High Energy Physics, (2013), 37.

Hietanen, A.; Lewis, R.; Pica, C.; Sannino, F.
Composite Goldstone Dark Matter. Physical Review D (Particles, Fields, Gravitation and Cosmology), (2013)

Hietanen, A.; Pica, C.; Sannino, F.; Ishøj Søndergaard, J.
Orthogonal Technicolor with Isotriplet Dark Matter on the Lattice. Physical Review D (Particles, Fields, Gravitationand Cosmology), (2013), 87(3).

Pierobon, L.; Nguyen, T-V.; Larsen, U.; Haglind, F.; Elmegaard, B.
Multi-objective optimization of organic Rankine cycles for waste heat recovery: Application in an offshore platform. Energy, (2013), 58, 538-549.

Pierobon, L.; Rokni, M.; Larsen, U.; Haglind, F.
Thermodynamic analysis of an integrated gasification solid oxide fuel cell plant combined with and organic Rankine cycle. Renewable Energy, (2013), 60, 226-234.

Poulios, K.; Klit, P.
Implementation and applications of a finte-element model for the contact between rough surfaces. Wear, (2013), 303(1-2), 1-8.

Poulios, K.; Svendsen, G.W.; Hiller, J.; Klit, P.
Coefficient of Friction Measurements for Thermoplastics and Fibre Composites Under Low Sliding Velocity and High Pressure, (2013), Tribology Letters, 51(2), 191-198.

Jacobsen, J.S.; Poulsen, P.N.; Olesen, J.F.; Krabbenhoft, K.
Constitutive mixed mode model for cracks in concrete. Engineering Fracture Mechanics, (2013), 99, 30-47.

Mougaard, J.F.; Poulsen, P.N.; Nielsen, L.O.
Complete Tangent Stiffness for eXtended Finite Element Method by including crack growth parameters. International Journal for Numerical Methods in Engineeering, (2013), 95(1), 33-45.

Poulsen, U.V.; Scholz, J.C.; Sørensen, E.H.L.; Cleve J.; Greiner, M.
High-frequency parametrizaion of engineering wind-farm wake models. Wind Energy, (2013).

Pyrz, R.
New Master's in materials technology. Public Service Review, (2013), 25, 327.

Dolomanoca, V.; Kumar, V.; Pyrz, R.; Madaleno, L.A.O.; Jensen, L.R.; Rauhe, J.C.M.
Foaming of Microcellular PP-MWCNT Nanocomposite in a Sub-Critical CO2 Process. Cellular Polymers, (2013), 32(1), 1-19.

Madaleno, L.; Pyrz, R.; Crosky, A.; Jensen, L.R.; Rauhe, J.C.M.; Dolomanova, V., De Barros Timmons, A.M.M.V.; Cruz Pinto, J.J.; Norman, J.
Processing and characterization of polyurethane nanocomposite foam reinforced with montmorillonite-carbon nanotube hybrids. Composites Part A: Applied Science and Manufacturing, (2013), 44(1), 1-7.

Ma, Y,: Su, X.; Pyrz, R.; Rauhe, J.C.M.
A novel theory of effective mechanical properties of closed-cell foram materials. Acta Mechanica Solida Sinica, (2013), 26(6), 559-569.

Ramos García, N.; Sørensen, J.N.; Shen, W. Zhong
A strong viscous-inviscid interaction model for rotating airfoils. Wind Energy, (2013).

Rasmussen, H.K.
Catastrophic failure of polymer melts during extension. Journal of Non-Newtonian Fluid Mechanics, (2013), 198, 136-140.
Hoyle, D.M.; Huang, Q.; Auhl, D.; Hassell, D.; Rasmussen, H.K.; Skov, A.L.; Harlen, O.G., Hassager, O.; McLeish, T.C.B.
Transient overshoot extensional rheology of long-chain branched polyethyles: Experimental and numerical comparisons between filament stretching and cross-slot flow. Journal of Rheology, (2013), 57(1), 293-313.

Huang, Q.; Mednova, O.; Rasmussen, H.K.; Javier Alvarez, N.; Skov, A.L.; Almdal, K.; Hassager, O.
Concentrated Polymer Solutions are Diffferent from Malts: Role of Entanglement Molecular Weight. Macromolecules, (2013), 46(12), 5026-5035.

Huang, O.; Javier Alvarez, N.; Matsumiya, Y.; Rasmussen, H.K.; Watanabe, H.; Hassager, O.
Extensional Rheology of Entangled Plystyrene Solutions Suggests Importance of Nematic Interactions. A.C S Macro Letters, (2013), 741-744.

Markos, C.; Stefani, A.; Nielsen, K.; Rasmussen, H.K.; Yuan, S.W.; Bang, O.
High-T_g TOPAS microstructured polymer optical fiber for fiber Bragg grating strain sensing at 110 degrees. Optics Express, (2013), 21(4), 4758 – 4765.

Román Marin, J.M.; Huusom, J.K.; Javier Alvarez, N.; Huang, Q.; Rasmussen, H.K.; Bach, A.; Skov, A.L.; Hassager, O.
A control scheme for filament stretching rheometers with application to polymer melts. Journal of Non-Newtonian Fluid Mechanics, (2013), 194, 14-22.

Sáez-Rodríguez, D.; Nielsen, K.; Rasmussen, H.K.; Bang, O.; Webb, D.J.
Highly photosensitive polymethyl methacrylate microstructured polymer optical fiber with doped core. Optics Letters, (2013), 38(19), 3769-3772.

Stefani, A.; Yuan, W.; Markos, C.; Rasmussen, H.K.; Andresen, S.; Guastavino, R.; Nielsen, F.K.; Rose, B.; Jespersen, Ol; Herholdt-Rasmussen, N.; Bang, O.
Temperature compensated, humidity insensitive, high-T_9 TOPAS FBGs for accelerometers and microphones. Proceedings of SPIE, the International Society for Optical Engineering, (2013), 8421.

Majid, N.A.B.A.; Abdullah, M.F.E.; Jamaludin, M.S.; Notomi, M.; Rasmussen, J.
Musculoskelatal analysis of driving fatigue: The influence of seat adjustments. Advanced Engineering Forum, (2013), 10, 373-378.

Read, R.; Rogerson, J.W.; Hochgreb, S.
Planar laser-induced fluorescence fuel imaging during gas-turbine relight. Journal of Propulsion and Power, (2013), 29(4), 961-974.

Andersen, J.E.; Penner, R.C.; Reidys, C.M.; Waterman, M.S.
Topological classification and enumeration of RNA structures by genus. Journal of Mathematical Biology, (2013), 67(5), 1261-1278.

Andersen, J.G.; Chekhov, L.; Penner, R.; Reidys, C.; Sulkowski, P.
Topological recursion for chord diagrams, RNA complexes, and cells in moduli spaces. Nuclear Physics, (2013), Section B.866, 3, 414-443.

Han, H.S.; Li, T.J.; Reidys, C.
Combinatorics of y-structures. Journal of Computational Biology, (2013).

Huang, F.W.; Nebel, M.E.; Reidys, C.
Generation of RNa pseudoknot structures with topological genus filtration. Mathematical Biosciences, (2013), 245(2).

Li, T.; Reidys, C.
The topological filtration of y-structures. Mathematical Biosciences, (2013), 241(1), 24-33.

Qin, J.; Reidys, C.M.
On Topological RNA Interaction Structures. Journal of Computational Biology, (2013), 20(7), 495-513.

Rokni, M.
Thermodynamic analysis of SOFC (solide oxide fuel cell) – Stirling hybrid plants using alternative fuels. Energy, (2013), 61, 87-97.

Bang-Møller, C.; Rokni, M.; Elmegaard, B.; Ahrenfeldt, J.; Henriksen, U.B.
Decentralized Combined heat and power production by two-stage biomass gasification and solid oxide fuel cells. Energy, (2013), 58, 527-537.

Bellomare, F.; Rokni, M.
Integration of a municipal solid waste gasification plant with solid oxide fuel cell and gas turbine. Renewable Energy, (2013), 55, 490-500.

Hosseinzadeh, E.; Rokni, M.; Advani, S.G.; Prasad, A.K.
Development and Validation of a Simple Analytical Model of the Proton Exchange Membrane Fuel Cell (Pemfc) in a Fork-Lift Truck Power System. International Journal of Green Energy, (2013), 10, 523-543.

Hosseinzadeh, E.; Rokni, M.; Advani, S.G.; Prasad, A.K.
Performance simulation and analysis of a fuel cell/battery hybrid forklift truck. International Journal of Hydrogen Energy, (2013), 38(11), 4241-4249.

Hosseinzadeh, E.; Rokni, M.; Rabbani R.A.; Mortensen, H.H.
Thermal and water management of low temperature Proton Exchange Membrane Fuel Cell in fork-lift truck. Applied Energy, (2013), 104, 434-444.

Rabbani, R.A.; Rokni, M.
Dynamic characteristics of an automotive fuel cell system for transitory load changes. Sustainable Energy Technologies and Assessments, (2013), 1(1), 34-43.

Rabbani, R.A.; Rokni, M.
Effect of nitrogen crossover on purging strategy in PEM fue cell systems. Applied energy, (2013), 111, 1061-1700.

Gregersen, I.B.; Sørup, H.J.D.; Madsen, H.; Rosbjerg, D.; Mikkelsen, P.S.; Arnbjerg-Nielsen, K.
Assesing future climatic changes of rainfall extremes at small spatio-temporal scales. Climatic Change, (2013), 118(3-4), 783-797.

Gregersen, I.B.; Madsen, H.; Rosbjerg, D.; Arnbjerg-Nielsen, K.
A spatial and non-stationary model for the frequency of extreme rainfall events. Water Resour. Res., (2013), 49(1), 127-136.

Hansen, A.K.; Hendricks Franssen, H.-J., Bauer-Gottwein, P.; Madsen, H.; Rosbjerg, D.; Kaiser, H.-P.
Well field management using multi-objective optimization. Water Resour. Manag., (2013), 27(3), 629-648.

Hansen, A.K.; Madsen, H.; Bauer-Gottwein, P.; Rosbjerg, D.; Falk, A.K.V.
Optimization of well field operation: case study Søndersø Waterworks, Denmark. J. Water Resour. Plann. Manage., (2013), 139(1), 109-116.

Sunyer, M.A.; Madsen, H.; Rosbjerg, D.; Arnbjerg-Nielsen, K.
Regional interdependency of precipitatio indices across Denmark in two ensembles of high-resolution RCMs. J. Climate, (2013), 26(20), 7912-7928.

Sunyer, M.A.; Sørup, H.J.D.; Christensen, O.B.; Madsen, H.; Rosbjerg, D.; Mikkelsen, P.S.; Arnbjerg-Nielsen, K.
On the importance of observational data properties when assessing regional climate model performance of extreme precipitation. Hydrol. Earth Syst. Sci., (2013), 17(11), 4323-4337

Rothuizen,, E.D.; Mérida, W.; Rokni, M.; Wistoft-Ibsen, M.
Optimizationof hydrogen vehicle refueling via dynamic simulation. International Journal of Hydrogen Energy, (2013), 38(11), 4221-4231.

Røgen, P.; Koehl, P.
Extracting knowledge from protein structure geometry. Proteins – Structure Function and Bioinformatics, (2013), 81(5), 841-851.

Røn, T; Javakhishvili, Il; Jankovan Atanasova, K.; Hvilsted, S.; Lee, S.
Adsorption and Aqueous Lubrication Properties of Charged and Neutral Amphiphilic Diblock Copolymers at a Compliant Hydrophobic Interface. Langmuir, (2013), 29(25), 7782-7792.

Sanporean, C-G.; Donescu, D.; Vuluga, Z.; Christiansen, J.D.C.; Jensen, E.A.; Paven, H.
Compatibilizing agents influence on mechanical properties of PP/clay nanocomposites. Polytechnical University of Bucharest. Scientific Bulletin. Series B: Chemistry and Materials Science, (2013), 75(1), 3-16.

Sanaporean, C-G.; Vuluga, Z.; Christiansen, J.D.C.; Radovici, C.; Jensen, E.A.; Paven, H.
Investigation of Mechanical Properties of PP/Clay Nanocomposites Based on Network Cross-Linked Compatibilizers. Industrial & Engineering Chemistry Research, (2013), 52(10), 3773-3778.

Lahriri, S.; Santos, I.
Experimental quantification of contact forces with impact, friction and uncertainty analysis. Tribology International, (2013), 66, 93-104.

Lahriri, S.; Santos, I.
Experimental quantification of dynamic forces and shaft motion in two different types of backup bearings under several contact conditions. Mechanical Systems and Signal Processing, (2013), 40(1), 301-321.

Lahriri, S.; Santos, I.
Theoretical modelling, analysis and validation of the shaft motion and dynamic forces during rotor-stator contact. Journal of Sound and Vibration, (2013), 332(24), 6359-6376.

Schlechtingen, M.; Santos, I.; Achiche, S.
Using Data-Minig Approaches for Wind Turbine Power Curve Monitoring: A Comparative Study. I E E E Transactions on Sustainable Energy, (2013), 4(3), 671-679.

Schlechtingen, M.; Santos, I.; Achiche, S.
Wind turbine condition monitoring based on SCADA data using normal behavior models: Part 1: System description. Applied Soft Computing, (2013), 13, 259-270.

Sørensen, E.H.; Schmiegel, J.
Lévy based approach to isotropic random vector fields: With applications to turbulence. Bernoulli, (2013), 39

Sørensen, E.H.; Schmiegel, J.
A causal continuous-time stochastic model for the turbulent energy cascade in a helium jet flow. Journal of Turbulence, (2013) 14(11), 1-26.

Chen, J.; Shen, W.Z.; Wang, Q.; Pang, X.; Li, S.; Guo, X.
Structural optimization study of composite wind turbine blade. Materials & Design, (2013), 46, 247-255.

Chen, J.; Cheng, J.; Shen, W.; Zhu, W.; Wang, X.
Research on improved design of airfoil profiles based on the continuity of airfoil surface curvature of wind turbines. Taiyang Neng Xuebao, (2013), 34(4), 547-554.

Hong, Z; Yang, H.; Xu, H.; Shen, W. Zhong
Prediction of aerodynamic performance for MEXICO rotor. Nongye Gongcheng Zyebao, (2013), 29(18), 67-74.

Si, H.; Shen, W.Zhong; Zhu, W.J.
Effect of non-uniform mean flow field on acoustic propagation problems in computational aeroacoustics. Aerospace Science and Technology, (2013), 28(1), 145-153.

Xu, C.; Tian, Q.; Shen, W. Zhong; Zhen, Y.; Liu, D.; Zhang, M
Wind turbine pitch control using ICPSO-PID algorithm. Paiguan Jixie Gongcheng Xuebao/Journal of Drainage and Irrigation Machinery Engineering, (2013), 31(11), 973-979.

Xu, C.; Yang, J.; Li, C.; Shen, W. Zhong; Zheng, Y.; Liu, D.
Optimization of Wind Farm Layout in Complex Terrain. Zhongguo Dianji Gongsheng Xuebao, (2013), 33(31), 58-64.

Sichani, Mahdi Teimouri; Nielsen, Søren R.K.
First Passage Probability Estimation of Wind Turbines by Markov Chain Monte Carlo. Structure & Infrastructure Engineering, (2013), 9(10), 1067.

Zhang, Zili; Sichani, Mahdi Teimouri; Li, Jie; Chen, Jianbing; Nielsen, Søren R.K.
Non-linear aeroelastic stability of wind turbines. Key Engineering Materials, (2013), 1, 531-538.

Sigmund, O.; Maute, K.
Topology optimization approaches: A comparative review. Structural and Multidisciplinary Optimization, (2013), 48(6), 1031-1055.

Amir, O.; Sigmund, O.
Reinforcement layout design for concrete structures based on continuum damage and truss topology optimization. Structural and Multidisciplinary Optimization, (2013), 47(2), 157-174.

Andkjær, J.A.; Sigmund, O.
Topology optimized cloak for airborne sound. Journal of Vibration and Acoustics, (2013), 135(4).

Arslanagic, S.; Hansen, T.V.; Mortensen, N.A.; Gregersen, A.H.; Sigmund, O.; Ziolkowski, R.W.; Breinbjerg, O.
A Review of the Scattering-Parameter Extraction Method with Clarification of Ambiguity Issues in Relation to Metamaterial Homogenization. I E E E Antennas and Propagation Magazine, (2013), 55(2), 91-106.

Dühring, M.B.; Sigmund, O.
Optimization of extraordinary optical absorption in plasmonic and dielectric structures. Optical Physics, (2013), 30(5), 1154-1160.

Park, B-U.; seo, Y-D.; Sigmund, O.; Youn, S-K.
Shape optimization of the stokes flow problem based on isogeometric analysis. Structural and Multidisciplinary Optimization, (2013), 48, 965-977.

Philippine, M.A.; Sigmund, O; Rebeiz, G.M.; Kenny, T.W.
Topology Optimization of Stressed Capacitive RF MEMS Switches. I E E E Journal of Microelectromechanical Systems, (2013), 22(1), 206-215.

Philippine, M.A.; Zareie, H.; Sigmund, O.; Rebeiz, G.M.; Kenny, T.W.
Experimental Validationof Topology Optimization for RF MEMS Capacitive Switch Design. I E E E Journal of Microelectromechanical Systems, (2013), 22(6), 1296-1309.

Qian, X.; Sigmund, O.
Topological design of electromechanical actuators with robustness toward over- and under-etching. Computer Methods in Applied Mechanics and Engineering, (2013), 253, 237-251.

Alimadadi, H.; da Silva Fanta, A.B.; Somers, M.A.J.; Pantleon, K.
Columns formed by multiple twinning in nickel layers – An approach of grain boundary engineering by electrodeposition. Applied Physics Lettters, (2013), 103(3).

Jegou, S.; Christiansen, T.L.; Klaus, M.; Genzel, C.; Somers, M.A.J.
Determination of composition, residual stress and stacking fault depth profiles in expanded austenite with energy-disperesive diffraction. Thin Solid Films, (2013), 530, 71-76.

Sonne, M.R.; Hattel, J.H.
Modeling the constitutive and frictional behavior of PTFE flexible stamps for nanoimprint lithography. Microelectronic Engineering, (2013), 106, 1-8.

Sonne, M.R.; Tutum, C.C.; Hattel, J.H.; Simar, A.; Meester, B.D.
The effect of hardening laws and thermal softening on modeling residual stresses in FSW of aluminum alloy 2024-T3. Journal of Materials Processing Technology, (2013), 213, 477-486.

Sorokin, S.
On the bi-orthogonality conditions for multi-modal elastic waveguides. Journal of Sound and Vibration, (2013), 332(21), 5606-5617.

Manconia, E.; Sorokin, S.
On the effect of damping on dispersion curves in plates. International Journal of Solids and Stuctures, (2013), 50(11-12), 1966-1973.

Hansen, C.S.; Stang, H.
Modeling of crack propagation in strengthened concrete disks. International Journal of Fracture, (2013), 179(1-2), 75-85.

Michel, A.; Solgaard, A.O.S.; Pease, B.J.; Geiker, M.R.; Stang, H.; Olesen, J.F.
Experimental investigation of the relation between damage at the concrete-steel interface and initiation of reinforcement corrosion in plain and fibre reinforced concrete. Corrosion Science, (2013), 77, 308-321.

Solgaard, A.O.S.; Michel, A.; Geiker, M.R.; Stang, H.
Concrete cover cracking due to uniform reinforcement corrosion. Materials and Structures, (2013), 46(11), 1781-1799.

Sumer, B.M.; Petersen, T.U.; Locatelli, L.; Fredsøe, J.; Musumeci, R.E.; Foti, E.
Backfilling of a Scour Hole around a Pile in Waves and Current. Journal of Watervay, Port, Coastal, and Ocean Engineering, (2013), 139(1), 9-23.

Sumer, B.M.; Güner A.; Hansen, N.M.; Fuhrman, D.R.; Fredsøe, J.
Laboratory observations of flow and sediment transport induced by plunging regular waves. Journal of Geophysical Research, (2013), 118(11), 6161-6182.

Sumer, B.M.; Nielsen, A.W.
Sinking failure of scour protection at wind turbine foundation. Institution of Civil Engineers. Proceedings. Energy, (2013), 166(EN4), 170-188.

Dixen, M.; Sumer, B.M.; Fredsøe, J.
Numerical and experimental investigation of flow and scour around a half-buri sphere. Coastal Engineering, (2013) 73, 84-150

Kirce, V.S.O.; Sumer, B.M.; Fredsøe, J
Residual liquefaction of seabed under standing waves. Journal of Waterway, Port, Coastal, and Ocean Engineering, (2013), 139(6), 489-501.

Nielsen, A.W.; Liu, X.; Sumer, B.M.; Fredsøe, J.
Flow and bed shear stresses in scour protections around a pile in a current. Coastal Engineering, (2013), 72, 20-38.

Kusano, Y.; Sørensen, B.F.; Løgstrup Andersen, T.; Leipold, F.
Adhesion improvement of glass-fibre-reinforced polyester composites by gliding arc discharge tratment. Journal of Adhesion, (2013), 89, 433-459.

Kusano, Y.; Sørensen, B.F.; Løgstrup Andersen, T.; Toftegaard, H.L.; Leipold, F.; Salewski, M.; Sun, Z.; Zhu, J.; Li, Z.; Alden, M.
Water-cooled non-thermal gliding arc for adhesion improvement of galss-fibre-reinforced polyester. Journal of Physics D: Applied Phisycs, (2013), 46(13).

Martyniuk, K.; Sørensen, B.F.; Modregger, P.; Lauridsen, E.M.
3D in situ observations of glass fibre/matrix interfacial debonding. Composites Part A: Applied Science and Manufacturing, (2013), 55, 63-73.

Bartzanas, T.; Bochtis, D.; Green, O.; Sørensen, C. Grøn; Fidaros, D.
Prediction of quality parameters for biomass silage: A CFD approach. Computers and Electronics in Agriculture, (2013), 93, 209-216.

Berruto, R.; Buzato, P.; Bochtis, D.; Sørensen, C. Grøn
Comparison of distribution systems for biogas plant residual. Biomass & Bioenergy, (2013), 52, 139-150.

Bochitis, D.D.; Sørensen, C. Grøn; Busato, P.; Berruto, R.
Benefits from optimal route planning based on B-patterns. Biosystems Engineering, (2013), 115(4), 389-395.

Bochitis, D.D.; Dogoulis, P.; Gemtos, T.; Busato, P.; Sørensen, C. Grøn; Berruto, R.
A flow-shop problem fourmulation of biomass handling operations scheduling. Computers and Electronics in Agriculture, (2013), 91, 49-56.

Busato, P.; Sørensen, C. Grøn; Pavlou, D.; Bochtis, D.; Berruto, R.; Orfanou, A.
DSS tool for the implementation and operation of an umbilical system applying organic fertiliser. Biosystems Engineering, (2013), 114, 9-20.

Edwards, G.T.C.; Christiansen, M.P.; Bochitis, D.; Sørensen, C. Grøn
Test Platform for Planned Field Operations Using LEGO Mindstroms NXT. Robotics, (2013), 2(4), 203-216.

Gassó-Tortajada, V.; Sørensen, C. Grøn; Oudshoorn, F.W.; Green O.
Controlled traffic farming: A review of the environmental impacts. European Journal of Agronomy, (2013), 28, 66-73.

Ibrahim, I.A.F.A.H.; Bochtis, D.; Sørensen, C. Grøn; Jensen, A.L.; Larsen, R.
Optimized driving direction based on a three-dimensional field representation. Computers and Electronica in Agriculture, (2013), 91, 145-153.

Orfanour, A.; Busato, P.; Bochtis, D.; Edwards, G.T.C.; Pavlou, D.; Sørensen, C. Grøn; Berruto, R.
Scheduling for machinery fleets in biomass multiple-field operations. Computers and Electronics in Agriculture, (2013), 94, 12-19.

Troldborg, N.; Sørensen, J.N.; Mikkelsen, R.F.; Sørensen, N.N.
A simple atmospheric boundary layer model applied to large eddy simulations of wind turbine wakes. Wind Energy, (2013).

Sousa, Hélder S.; Sørensen, John Dalsgaard; Kirkegaard, Poul Henning; Branco, Jorge M.; Lourenco, Paulo B.
On the use of NDT Data for Eliability-Based Assesment of Existing Timber Structures. Engineering Structures, (2013), 56 (November), 298-311.

Abdullaev, F.K.; Ögren, M.; Sørensen, M.P.
Faraday waves in quasi-one-dimensional superfluid Fermi-Bose mixtures. Physical Review A (Atomic, Molecular and Optial Physics), (2013), 87(2), 023616.

Caputo, J.G.; Sørensen, M.P.
Radial sine-Gordon kinks as sources of fast breathers. Physical Review E (Statistical, Nonlinear, and Soft Matter Physics), (2013), 88(2).

Gaididei, Y.B.; Gorria, C.; Berkemer, R.; Kawamoto, A.; Shiga, T.; Christiansen, P.L.; Sørensen, M.P.; Starke, J.
Controlling traffic jams by time modulating the safety distance. Physical review E (Statistical Nonlinear, and Soft Matter Physics), (2013), 88(4).

Gaididei, Y.B.; Gorria, C.; Berkemer, R.; Christiansen, P.L.; Kawamoto, A.; Sørensen, M.P.; Starke, J.
Stochastic control of traffic patterns. Networks and Heterogeneous Media, (2013), 8(1), 261-273.

Zermeno, V.M.R.; Abrahamsen, A.B.; Mijatovic, N.; Jensen, B.B.; Sørensen, M.P.
Calculation of alternating current losses in stacks and coils made of second generation high temperature superconducting tapes for large scale applications. Journal of Applied Physics, (2013), 114(17).

Sørensen, S.N.; Lund, E.
Topology and thickness optimization of laminated composites including manufacturing constraints. Structural and Multidisciplinary Optimization, (2013), 48(2), 249-165.

Thomassen, C.
Decomposing a graph into bistars. Journal of Combinatorial Theory. Series B, (2013), 103(4), 504-508.

Thomassen, C.
Decomposing graphs into paths of fixed length. Combinatorica, (2013), 33(1), 97-123.

Alahmadi, A.; aldred, R.E.L.; de la Cruz, R.; Solé, P.; Thomassen, C.
The maximum number of minimal codewords in an [n, k]-code. Discrete Mathematics, (2013), 313(15), 1569-1574.

Lovász, L.M.; Thomassen, C.; Wu, Y.; Zhang, C-Q
Nowhere-zero 3-flows and modulo *k*-orientations. Journal of Combinatorial Theory. Series B, (2013), 103(5), 587-598.

Thompson, M.K.
Improving the requirements process in Axiomatic Design Theory. C I R P Annals, (2013), 62(1), 115-118.

Thompson, M.K.; Clemmensen, L.K.H.; Ahn, B.
The Effect of Rubric Rating Scale on the Evaluation of Engineering Design Projects. International Journal of Engineering Education, (2013), 29(6), 1490-1502.

Tiedje, N.S.; Taylor, J.A.; Easton, M.A.
A new multizone model for porosity distribution in Al-Si alloy castings. Acta Materialia, (2013), 61(8), 3037-3049.

Moumeni, E.; Stefanescu, D.M.; Tiedje, N.S.; Larrañaga, P.; Hattel, J.H.
Investigation on the Effect of Sulfur and Titanium on the Microstructure of Lamellar Graphite Iron. Metallurgical and Materials Transactions A, (2013), 44(11), 5134-5146.

Nwaogu, U.C.; Tiedje, N.S.; Hansen, H.N.
A non-contact 3D method to characterize the surface roughness of castings. Journal of Materials Processing Technology, (2013), 213(1), 59-68.

Hamilton, A.R.; Thomsen, O.T.; Madaleno, L.A.O.; Jensen, L.R.; Rauhe, J.C.M.; Pyrz, R.
Evaluation of the Anisotropic Mechanical Properties of Reinforced Polyurethane Foams. Composites Science and Technology, (2013), 87, 210-217.

Khalili, S.M.R.; Malekzadeh, F.; Rahmani, O.; Thomsen, O.T.
High-order Modeling of Circular Cylindrical Composite Sandwich Shells with a Trasversely Compliant Core Subjected to Low Velocity Impact. Mechanics of Advanced Materials and Structures, (2013).

Raghavalu Thirumalai, D.P.; Pillai, S.; Charca, S.; Ataollahi, S.; Knudsen, H.; Løgstrup Andersen, T.; Bech, J.I.; Thomsen, O.T.; Lilholt, H.
Effect of polymer Form and its Consolidation on Mechanical Properties and Quality of Glass/PBT Composites. Applied Composite Materials, (2013).

Toft, H.S.; Branner; K.; Mishnaevsky, L.; Sørensen, J.D.
Uncertainty modelling and code calibration for composite materials. Journal of Composite Materials, (2013), 47(14), 1729-1747.

Raghavalu Thirumalai, D.P.; Toftegaard, H.L.
Environmental Effects on the Mechanical Properties of Commingled-Yarn-Based Carbon Fiber/Polyamide 6 Composites. Journal of Composites Materials, (2013).

Torres-Arredondo, M.A.; Tibaduiza, D.-A.; McGugan, M.; Toftegaard, H.L.; Borum, K.K.; Mujica, L.E.; Rodellar, J. Fritzen, C.-P.
Multivariate data-driven modelling and pattern recognition for damage detection and identification for acoustic emission and acousto-ultrasonics. Smart Materials and Structures, (2013), 22.

Kusano, Y.; Løgstrup Andersen, T.; Toftegaard, H.L.; Leipold, F.; Bardenshtein, A.
Plasma treatment of carbon fibres and glass-fibre-reinforced polyesters at atmospheric pressure for adhesion improvement. International Journal of Materials Engineering Innovation, (2013).

Jauregui-Becker, J.M.; Tosello, G.; van Houten, F.J.A.M.; Hansen, H.N.
Performance Evaluation of a Software Engineering Tool for Automated Design of Cooling Systems in Infection Moulding. Procedia CIRP, (2013), 7, 270-275.

Yagüe-Fabra, J.A.; Ontiveros, S.; Jiménez, R.; Chitchian, S.; Tosello, G.; Carmignato, S.
A 3D edge detection technique for surface extraction in computed tomography for dimensional metrology applications. C I R P Annals, (2013), 61(1), 532-534.

Tvergaard, V.; Niordson, C.F.; Hutchinson, J.W.
Material size effects on crack growth along patterned wafer-level Cu-Cu bonds. International Journal of Mechanical Sciences, (2013), 68, 270-276.

Ponson, L.; Cao, Y.; Bouchaud, E.; Tvergaard, V.; Needleman.
Statistics of ductile fracture surfaces: the effect of material parameters. International Journal of Fracture, (2013), 184(1-2), 137-149.

Velte, C.M.; Hansen, M.O.L.
Investigation of flow behind vortex generators by sterio particle image celocimetry on a thick airfoil near stall. Wind Energy, (2013), vol 16(5), 775-785.

Verdingovas, V.; Jellesen, M.S.; Ambat, R.
Influence of sodium chloride and weak organic acids (flux residues) on electrochemical migration of tin on surface mount chip components. Corrosion Engineering, Science and Technology, (2013), 48(6), 426-435.

Pralgauskaité, S.; Palenskis, V.; Maturkas, J.; Šaulys, B.; Kornijčuk, V.; Verdingovas, V.
Analysis of mode-hopping effect in Fabry-Pérot multiple-quantum well laser diodes via low frequency noise investigation. Solid-State Electronics, (2013), 79, 104-110.

Walther, J.H.; Hejlesen, M.M.; Leonard, A.; Koumoutsakos, P.
An Iterative Brinkman penalization for particle vortex methods. American Physical Society. Bulletin, (2013), 58(8).

Walther, J.H.; Ritos, K.; Cruz-Chu, E.R.; Megaridis, C.M.; Koumoutsakos, P.
Barriers to Superfast Water Transport in Carbon Nanotube Membranes. Nano Letters, (2013), 13, 1910-1914.

Hejlesen, M.M.; Rasmussen, J.T.; Chatelain, P.; Walther, J.H.
A high order solver for the unbounded Poisson equation. Journal of Computational Physics, (2013), 252, 458-467.

Jensen, M.V.; Walther, J.H.
Numerical analysis of jet impingement heat transfer at high jet Reynolds number and large temperature difference. Heat Transfer Engineering, (2013), 34(10), 801-809.

Sigurdson, L.; Wiwchar, J.; Walther, J.H.
Simulation of the Initial 3-D Instability of an Impacting Drop Vortex Ring. American Physical Society. Bulletin, (2013), 58(8).

Zambrano, H.; Walther, J.H.; Oyarzua, E.
Effect of air on water capillary flow in silica nanochannels. American Physical Soceity. Bulletin, (2013), 58(8).

Wang, P.; Pierron, F.; Thomsen, O.T.
Identification of Material Paramters of PVC Foams Using Digital Image Correlation and the Virtual Fields Method. Experimental Mechanics, (2013), 53(6), 1001-1015.

West, O.; Diederichs, A.M.; Alimadadi, H.; Dahl, K.V.; Somers, M.A.J.
Application of Complementary Techniques for Advanced Characterization of White Etching Crack. Praktische Metallographie, (2013), 50(6), 410-431.

Westlye, F.R.; Ivarsson, A.; Schramm, J.
Experimental investigationof nitrogen based emissions from an ammonia fueled SI-engine. Fuel, (2013), 111, 239-247.

Wind-Willassen, Ø.; Moláček, J.; Harris, D. M.; Bush, J. W. M.
Exotic states of bouncing and walking droplets. Physics of Fluids, (2013), 25(8).

Hong, C.; Huang, X.; Winther, G.
Dislocation content of geometrically necessary boundaries aligned with slip planes in rolled aluminium. Philosophical Magazine (London, 2003), (2013), 93(23), 3118-3141.

Le, G.M.; Godfrey, A.; Hansen, N.; Liu, W.; Winther, G.; Huang, X.
Influence of grain size in the near-micrometre regime on the deformation micro structure in aluminium. Acta Materialia, (2013), 61(19), 7072-7086.

Goegebeur, Y.; Dierckx, G.; Guillou, A.
An asumptotically unbiased minimum density power divergence estimator for the Pareto-tail index. Journal of Multivariate Analysis, (2013), 121.

Gogebeur, Y.; Guillou, A.
Asymptotically unbiased estimation of the coefficient of tail dependence. Scandinavian Journal of Statistics, (2013), 40, 174-189.

Gogebeur, Y.; Psiosik, Z.; Klitkou, L.; Steffensen, R.; Christiansen, O.B.
Plasma TNF-alpha levels are higher in early pregnancy in patients with secondary compared with primary recurrent miscarriage. American Journal of Reproductive Immunology, (2013), 70(5).

Zadeh, M.N.; Sorokin, S.
Comparison of waveguide properties of curved versus straight planar elastic layers. Mechanics Research Communications, (2013), 47, 61-68.

Zadeh, M.N.; Sorokin, S.
Simplified description of out-of-plane waves in thin annular elastic plates. Journal of Sound and Vibration, (2013), 332(4), 894-906.

Zafar, A.; Schjødt-Thomsen, J.; Sodhi, R.; Goacher, R.; de Kubber, D.
Investigation of the ageing effects on phenol-urea-formaldehyde binder and alkanol amine-acid anhydride binder coated mineral fibres. Polymer Degradation and Stability, (2013), 98(1), 339-347.

Zhang, Y.; Hansen, H.N.; Hattel, J.H.; Tang, P.T.; Nielsen, J.S.; Tutum, C.C.
An explanation of the mechanism for laser induced selective activation using diffusion theory. Nami Jishu yu Jingmi Gongcheng, (2013), 11(2), 97-104.

Zhang, Y.; Hansen, H.N.; Tang, P.T.; Nielsen, J.S.
Verification of a characterization method of the laser-induced selective activation based on industrial lasers. International Journal of Advanced Manufacturing Technology, (2013), 68, 1775-1783.

Zhu, W.J.; Behrens, T.; Shen, W. Zhong; Sørensen, J.N.
Hybrid immersed boundary method for airfoils with a triling-edge flap.AIAA Journal, (2013), 51(1), 30-41.

Cheng, J.; Zhu, W.J.; Fischer, A.; Ramos García, N.; Madsen, J.
Design and validation of the high performance and low noise CQU-DTU-LN1 airfoils. Wind Energy, (2013).

Aage, N.; Lazarov, B.S.
Parallel framework for topology optimization using the method of moving asymptotes. Structural and Multidisciplinary Optimization, (2013), 47(4), 493-505.

Aage, N.; Nobel-Jørgensen, M.; Andreasen, C.S.; Sigmund, O.
Interactive topology optimization on hand-held devices. Structural and Multidisciplinary Optimization, (2013), 47(1), 1-6.

Amir, O.; Aage, N.; Lazarov, B.S.
On multigrid-CG for efficient topology optimization. Structural and Multidisciplinary, (2013).

Christiansen, A.N.; Nobel-Jørgensen, M.; Aage, N.; Sigmund, O.; Bærentzen, J.
Topology optimization using an explicit interface representation. Structural and Multidisciplinary Optimization, (2013), 49(3), 387-399.

4B. BOOKS

Andersen, J.A.B.; McAloone, T.C.; Garcia I Mateu, A.; Mougaard, K.; Neugebauer, L.M.; Hsuan, J.; Ahm, T.
PSS Business Models: A workbook in the PROTEUS series. (PROTEUS Workbook series; No. PRO-07)

Andersen, J.A.B.; McAloone, T.C.; Garcia I Mateu, A.; Mougaard, K.; Neugebauer, L.M.; Hsuan, J.; Ahm, T.
PSS Partnerships: A workbook in the PROTEUS series. (PROTEUS Workbook series; No. PRO-06).

Bureau, E., Schilder, F., Santos, I., Thomsen, J., Starke, J.
Experimental Bifurcation Analysis of an Impact Oscillator – Tuning A Non-Invasive Control Scheme. Journal of Sound and Vibration (2013) 332(22), 5883 – 5897.

Debrabant, K.; Jacobsen, E.R.
Semi-Lagrangian schemes for parabolic equations.
Recent developments in computational finance, Foundations, algorithms and applications, hrsg. von T. Gerstner und P. Kloeden, Bd. 14,
Interdisciplinary Mathematical Sciences, World Scientific, 2013, Kap. 6, 279-298.

Debrabant, K.; Rössler, A.
Deriative-free weak approximation methods for stochastic differenctial equations in finance.
Recent developments in computational finance, Foundations, algorithms and applications, hrsg. von T. Gerstner und P. Kloeden, Bd. 14,
Interdisciplinary Mathematical Sciences, World Scientific, 2013, Kap. 7, 299-316.

Islam, A.; Marhöfer, D.M.; Tosello, G.; Hansen, H.N.
Capability Handbook – offline metrology. Hi-Micro project.

Krenk, S.; Høgsberg, J.B.
Statics and Mechanics of Structures. Springer Science+Business Media B.V.

Apitz, N.; McAloone, T.C.; Garcia I Mateu, A.; Andersen, J.A.B.; Mougaard, K.; Neugebauer, L.M.; Hsuan
PSS Organisation: A workbook in the PROTEUS series (PROTEUS Workbook series; No. PRO-05).

Avlonitis, V.; Hsuan, J.; McAloone, T.C.; Garcia I Mateu, A.; Andersen, J.A.B; Mougaard, K.; Neugebauer, L.M.; Ahm, T.
PSS Readiness Manual: A workbook in the PROTEUS series. (PROTEUS Workbook series; No. PRO-03).

Finken, K.H.; McAloone, T.C.; Avlonitis, C.; Garcia i Mateu, A.; Andersen, J.A.B.; Mougaard, K.; Neugebauer, L.M.; Hsuan, J.
PSS Tool Book: A workbook in the PROTEUS series. (PROTEUS Workbook series; No. PRO-04).

Mougaard, K.; Neugebauer, L.M.; Garcia I Mateu, A.; Andersen, J.A.B.; McAloone, T.C.; Hsuan, J.; Ahm, T.
Maritime Branch Analysis: A workbook in the PROTEUS series. (PROTEUS Workbook series; No. PRO-01).

Møller, P.; Nielsen, L.P.
Advanced Surface Technology. Møller & Nielsen

Butts, M.; Rasmussen, S.H.; Ridler, M.; Larsen, M.A.D.; Drews, M.; Lerer, S.; Overgaard, J.; Grooss, J.; Rosbjerg, D.; Christensen, J.H.; Refsgaard, J.C.
Embedding complex hydrology in the climate system – towards fully coupled climatge-hydrology models. Climate and Land Suface Changes in Hydrology (eds. E. Boegh, E. Blyth, D.M. Hannah, H. Hisdal, H Kunstmann, B. Su and K. Koray), IAHS Publ. no 359, 133-139.

Wang, Y.; Chen, H.; Rosbjerg, D.; Madsen, H.; Bauer-Gottwein, P.; Wang, J.
Real-time dynamic control of the Three Gorges Reservoir by coupling numerical weather rainfall prediction and flooed forecasting. Considering Hydrological Change in Reservoir Planing and Management (eds. A. Schumann, V.B. Belyaev, E. Gargouri, G. Kuczera and G. Mahe), IAHS Publ. no. 362, 75-82.

Starke, J.
Dynamical System Approaches to Combinatorial Optimization.
Invited Book Chapter. Pages 1065-1124 in Pardalos, P., Du, D.-Z. and Graham, R.: Handbook of Combinatorial Optimization, 2nd Edition. (2013) Springer Verlag, Heidelberg, New York.

Gaididei, Y., Gorria, C., Berkemer, R., Kawamoto, A., Shiga, T., Christiansen, P., Sørensen, M., Starke, J.
Traffic jam control by time-modulating the safety distance.
Physical Review E (2013) 88(4), 042803 – 042815.

Gaididei, Y., Gorria, C., Berkemer, R., Christiansen, P., Kawamoto, A., Sørensen, M., Starke, J.
Stochastic control of traffic patterns. Invited article for special issue "Nonlinear Partial Differential Equations: Theory and Applications to Complex Systems" (editors: Henri Berestycki, Danielle Hilhorst, Frank Merle, Masayasu Mimura and Khashayar Pakdaman) of NHM (Networks and Heterogeneous Media), (2013) 8(1), 261–273, dedicated to Professor Hiroshi Matano on the occasion of his 60th birthday.

Thompson, M.K.
Proceedings of the 2nd International Workshop on Design in Civil and Environmental Engineering. Worcester, MA:DCEE.

Thompson, M.K.
Proceedings of the 7th International Conference on Axiomatic Design. ICAD.

5. LIST OF DCAMM S-REPORTS (from no. S85)

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6. OTHER THESES

ANDERSEN, L.U.: “Performance of Biodegradable Polymers used in Mechanically Loaded Implants”, DTU Wind Energy, 2013, PhD Thesis.

ANDERSEN, MORTEN: “Topology of Streamlines and Vorcity Contours for Two-Dimensional Flows”, DTU Compute, 2013, PhD Thesis.

CASTBERG, N.A.: “Architectural Engineering to Super-Light Structures”, DTU Civil Engineering, 2013, PhD Thesis.

CERON, ERMANO: “New tribo-system for sheet metal forming of advanced high strength steel and stainless steel”, DTU Mechanical Engineering, 2013, PhD Thesis.

CHRISTENSEN, J.E.: “Acoustic Design of super-light Structures”, DTU Civil Engineering, 2013, PhD Thesis.

DARULA, RADOSLAV: “Semi-Active Control by Means of Electro-Magnetic Elements”, Aalborg University, Department of Mechanical and Manufacturing Engineering, 2013, PhD Thesis.

GODI, ALESSANDRO: “Characterisation and Testing of Multifunctional Surfaces”, DTU Mechancial Engineering, 2014, PhD Thesis.

HANSEN, J.Z.: “The effects of fibre architecture on fatigue life-time of composite materials”, DTU Wind Energy, 2013, PhD Thesis.

IVERSEN, A.: Detailed simulations of lighting conditions in office rooms lit by daylight and artificial light”, DTU Civil Engineering, 2013, PhD Thesis.

JUHL, THOMAS BROKHOLM: “Understanding and Expanding the Weldability of Plastics”, Aalborg University, Department of Mechanical and Manufacturing Engineering, 2013, PhD Thesis.

KABUS, SIMON: “Optimal Design of Wind Turbine Drive Trains”, Aalborg University, Department of Mechanical and Manufacturing Engineering, 2013, PhD Thesis.

KLEISSL, K.: “Cable Aerodynamics Control: Wind tunnel studies”, DTU Civil Engineering, 2013, PhD Thesis.

KLINKVORT, R.T.: “Centrifuge modelling of drained latral pile – soil response: Application for offshore wind turbine support structures”, DTU Civil Engineering, 2013, PhD Thesis.

KOSTANDYAN, ERIK: “Reliability Modeling of Wind Turbines: exemplified by power converter systems as basis for O&M planning”, Aalborg University, Department of Civil Engineering, 2013, PhD Thesis.

LANGER, THOMAS HEEGAARD: “Human Machine Interaction by Simulation of Dynamics of Construction Machinery”, Aalborg University, Department of Mechanical and Manufacturing Engineering, 2013, PhD Thesis.

LARSEN, F.: “Thermal/moisture-related stresses and fracture behavior in solid wood members during forced drying: Modelling and experimental study”, DTU Civil Engineering, 2013, PhD Thesis.

LÁRUSSON, L.H.: “Development of flexible Link Slabs using Ductile fiber Reinforced Concrete”, DTU Civil Engineering, 2013, PhD Thesis.

MA, JING: “Study of Single Walled Carbon Nanotube Reinforced Polymer Composites by Hansen Solubility Paramters”, Aalborg University, Department of Mechanical and Manufacturing Engineering, 2013, PhD Thesis.

MADALENO, LILIANA ANDREIA OLIVEIRA: “Processing and Characterization of Polymer Nanocomposites with Novel Nanostrutured Fillers” Aalborg University, Department of Mechanical and Manufacturing Engineering, 2013, PhD Thesis.

MADDALONI, ALESSANDRO: “Algorithms for feedback vertex sets, (arc-)disjoint paths and cycles and spanning in digraphs”, University of Southern Denmark, Department of Mathematics and Computer Science, 2013, PhD Thesis.

MARQUEZ-DOMINGUES, SERGIO: “Reliability-Based Design and Planning of Inspection and Monitoring of Offshore Wind Turbines”, Aalborg University, Department of Civil Engineering, 2013, PhD Thesis.

MARTYNIUK, KAROLINA: “Studies of 3D microscale damage evolution in composites materials for wind turbines”, DTU Wind Energy, 2013, PhD Thesis.

MICHEL, A.: “Reinforcement Corrosion: Numerical Simulation and Service Life Prediction”, DTU Civil Engineering, 2013, PhD Thesis.

MIKKELSEN, KARIN BUNDGAARD: “Making It Short? A Fieldwork Study Outlining Patients’ Expectations and Needs for Nursing in Facilities for Short-term Stay, Aalborg University, Department of Mechanical and Manufacturing Engineering, 2013, PhD Thesis.

MORELLI, M.: “Development of a method for holistic energy renovation”, DTU Civil Engineering, 2013, PhD Thesis.

MOUMENI, ELHAM: “Solidification of cast iron – a study on the effect of microalloy elements on the microstructure of cast iron”, DTU Mechanical Engineering, 2013, PhD Thesis.

NEZHENTSEVAN, ANASTASIA: “Design of Trasition Pieces for Bucket Foundations for Offshore Wind Turbines”, Aalborg University, Department of Civil Engineering, 2013, PhD Thesis.

NIELSEN, JANNIE SØNDERKÆR: “Risk-Bed Operation and Maintenance of Offshore Wind Turbines”, Aalborg University, Department of Civil Engineering, 2013, PhD Thesis.

NIELSEN, JOHAN SEBASTIAN ROSENKILDE: “List Decoding of Algebraic Codes”, DTU Compute, 2013, PhD Thesis.

LETH, CASPAR THRANE: “Improved Design Basis for Laterally Loaded Large Diameter Pile: experimental based approach”, Aalborg University, Department of Civil Engineering, 2013, PhD Thesis.

PEDERSEN, DAVID BUE: “ADDITIVE MANUFACTURING, Multi Material Processing and Part Quality Control”, DTU Mechanical Engineering, 2013, PhD Thesis.

STEFFENSEN, SØREN: “Estimation of Fracture Toughness of Thin Films and Debonding and Particles in Thin Films”, Aarhus University, Department of Engineering, 2013, PhD Thesis.

RASMUSSEN, G.M.G.: “The institutionalization of benchmarking in the Danish construction industry”, DTU Civil Engineering, 2013, PhD Thesis.

SIMONSEN, SVEN: “Algorithmic aspects of paths, trees, branchings and cycles in digraphs”, University of Southern Denmark, Department of Mathematics and Computer Science, 2013, PhD Thesis.

STOLPE, MATHIAS: “Models and Methods for Structural Topology Optimization with Discrete Design Variables”, DTU Wind Energy, 2013, Doctoral Thesis.

SUN, T.R.: “Effect of pulse current on energy consumption and removal of heavy metals dring electrodialytic soil remediation”, DTU Civil Engineering, 2013, PhD Thesis.

SØRENSEN, RASMUS MØRK: “Development of Highly Compact Hydrostatic Motor for Low Speed High Torque Applications”, Aalborg University, Department of Mechanical and Manufacturing Engineering, 2013, PhD Thesis.

SØRENSEN, SØREN NØRGAARD: “Parameterizations for Multi-Material Topology Optimization of Composite Structures”, Aalborg University, Department of Mechanical and Manufacturing Engineering, 2013, PhD Thesis.

TERKILDSEN, S.: “Development of mechanical ventilation system with low energy consumption for renovation of buildings”, DTU Civil Engineering, 2013, PhD Thesis.

TOMMERUP, SØREN: “Feedback Control of Deep Drawing Processes”, Aalborg University, Department of Mechanical and Manufacturing Engineering, 2013, PhD Thesis.

WU, GUNGLAI: “Error Modeling and Design Optimization of Parallel Manipulators”, Aalborg University, Department of Mechanical and Manufacturing Engineering, 2013, PhD Thesis.

ZADEH, MAZIYAR NESARI: “Generation and Transmission of Vibration in Vertical Roller Mills”, Aalborg University, Department of Mechanical and Manufacturing Engineering, 2013, PhD Thesis.

7. DCAMM SEMINARS GIVEN IN 2013

Associate Professor Luke Olson, Department of Computer Science University of Illinois at Urbana-Champaign, USA and Professor Xing Cai, Simula Norway: Seminar on Modern Scientific Computing Trends. 5 December 2013

Professor Rebecca Barthelmie: Can climate change impact wind energy? Can wind energy impact climate change? 13 November 2013. Indiana University, USA.

Professor Ronal W. Yeung: From Waveless Hulls to Ocean Renewable Energy – Ocean Technology Research at U.C. Berkely. 25 October 2013. University of California at Berkeley, USA.

Professor Linoel Birglen: Everything you Always Wanted to Know about Underactuated Hands. 14 October 2013. Ecole Polytechnique of Montreal, Canada.

Cand.scient., PhD Thomas Hesselberg: Numerical modelling of biological systems: tehspider orb web. 13 August 2013. Department of Zoology, University of Oxford, UK.

Professor Brian Hayman: Semi-analytical buckling and ultimate strength analysis of composite plates in compression. 21 May 2013. University of Oslo, Department of Mathematics, Norway.

Professor Fernando Lund: Ultrasound as a probe of dislocation density in aluminium. 28 February 2013. Universidad de Chile, Chile.

DCAMM ANNUAL SPEAKER SEMINAR 2013

Professor Gaëtan Kerschen, Department of Aerospace and Mechanical Engineering, University of Liège, Belgium: Natural Frequencies and Normal Modes of Nonlinear Aerospace Structures.
This lecture was given both at the Technical University of Denmark and at Aalborg University, 27 and 28 November, respectively

8. DCAMM COURSES GIVEN IN 2013

DTU Mechanical Engineering

Experimental fluid dynamics and data interpretation

High Performance Computing: FORTRAN, Open MP and MPI

Advanced Engineering Thermodynamics

Topology Optimization – Theory, Methods and Applications

Electron Mcroscopy and Analysis for Materials Research

Micro Mechanical Systems Design and Manufacture

Nanotribology: Theory and applications

Measurement uncertainty estimation using statistical methods

Marine Hydrodynamics and Aerodynamics of Offshore Wind Energy

DTU Compute

Advanced Numerical Methods for Differential Equations

Multi-scale Analysis in Dynamical Systems

Aalborg University's Doctoral School of Engineering and Science

Modeling and Control of Wave Energy Converters

APPENDIX: List of members 2013

Abbreviations:

from Technical University of Denmark

CIVIL: Dept. of Civil Engineering
COMPUTE: Dept. of Applied Mathematics and Computer Science
MEK-FAM: Dept. of Mechanical Engineering, Solid Mechanics
MEK-FVM: Dept. of Mechanical Engineering, Fluid Mechanics, Coastal and Maritime Engineering
MEK-K&P: Dept. of Mechanical Engineering, Engineering Design and Product Development
MEK-MPP: Dept. of Mechanical Engineering, Manufacturing Engineering
MEK-MTU: Dept. of Mechanical Engineering, Materials and Surface Engineering
MEK-TES: Dept. of Mechanical Engineering, Thermal Energy

WIND: DTU Wind Energy

from Aalborg University

CIVIL, AAU: Department of Civil Engineering
M-TECH, AAU: Department of Mechanical and Manufacturing Engineering

from Aarhus University

ENG, AU: Department of Engineering

from University of Southern Denmark

SDU-MAT: Dept. of Mathematics and Computer Science

Adesokan, Bolaji James	(COMPUTE)	PhD student
Aggerbeck, Martin	(MEK-MTU)	PhD student
Alexandersen, Joe	(MEK-FAM)	PhD student
Ambat, Rajan	(MEK-MTU)	Associate Professor
Amini Afshar, Mostafa	(MEK-FVM)	PhD student
Andersen, Frederik Herland	(MEK-FVM)	PhD student
Andersen, Ingrid Marie Vincent	(MEK-FVM)	PhD student
Andersen, Jakob Axel Bejbro	(MEK-K&P)	PhD student
Andersen, Lars Vabbersgaard	(CIVIL, AAU)	Associate Professor, PhD
Andersen, Martin	(M-TECH, AAU)	PhD student
Andersen, Michael Skipper	(M-TECH-AAU)	PhD student
Andersen, Morten	(COMPUTE)	PhD student
Andersen, Morten Thøtt	(CIVIL-AAU)	PhD student
Andersen, Poul	(MEK-FVM)	Associate Professor
Andersen, Rasmus	(M-TECH, AAU)	Scientific Assistant
Andersen, Søren Juhl	(WIND)	PhD student
Andreasen, Casper Schousboe	(MEK-FAM)	Assistant Professor
Andreasen, Jens H.	(M-TECH, AAU)	Associate Professor
Andreasen, Jesper Graa	(MEK-TES)	Scientific Assistant
Andreasen, Mogens Myrup	(MEK-K&P)	Professor, Emeritus

Andreassen, Erik	(MEK-FAM)	PhD student
Angel, Jais Andreas Breusch	(MEK-MPP)	PhD student
Azizi, Reza		Elected member, PhD
Baby, Sanmohan	(M-TECH, AAU)	Postdoc
Back-Pedersen, Andreas		Elected member, PhD.
Bai, Shaoping	(M-TECH, AAU)	Assistant Professor
Bak, Brian Lau Verndal	(M-TECH, AAU)	PhD student
Bakkedal, Morten	(MEK-MTU)	PhD student
Balci, Adnan	(COMPUTE)	PhD student
Balling, Ole	(ENG, AU)	Professor
Bang-Jensen, Jørgen	(SDU-MAT)	Professor
Baran, Ismet	(MEK-MPP)	PhD student
Barington, Alexander	(MEK-MTU)	PhD student
Barton, Janice	M-TECH, AAU	Professor
Baumbach, Jan	(SDU-MAT)	Associate Professor
Bay, Niels	(MEK-MPP)	Professor
Baykal, Cüneyt	(MEK-FVM)	Postdoc
Beelen, Peter	(COMPUTE)	Associate Professor
Bejder, Erik	(M-TECH, AAU)	Associate Professor
Bellemo, Lorenzo	(MEK-TES)	PhD student
Bendsøe, Martin		Elected member, Professor
Bennov, Lars	(MEK-TES)	Scientific Assistant
Berggreen, Christian	(WIND)	Associate Professor
Bihlet, Uffe	(MEK-MTU)	PhD student
Bingham, Harry B.	(MEK-FVM)	Associate Professor
Bisacco, Giuliano	(MEK-MPP)	Assistant Professor, PhD
Bitsche, Robert	(WIND)	Researcher
Blasques, José Pedro	(WIND)	Postdoc
Boelskifte, Per	(MEK-K&P)	Professor
Bohr, Tomas		Elected member, Professor
Bordi, Kirill V.	(MEK-MTU)	Postdoc
Borg, Ulrik		Elected member, Senior Engineer
Bottoli, Federico	(MEK-MTU)	PhD student
Brander, David	(COMPUTE)	Associate Professor
Branner, Kim	(WIND)	Senior Scientist
Bredmose, Henrik	(WIND)	Assistant Professor
Brincker, Rune	(ENG, AU)	Professor
Brink, Bastian	(MEK-MTU)	PhD student
Brohus, Henrik	(CIVIL, AAU)	Associate Professor, ph.d.
Bruun, Hans Peter Lomholt	(MEK-K&P)	PhD student
Bræstrup, M. W.		Elected member, PhD.
Bräuner, Lars	(ENG, AU)	Associate Professor
Brøndsted, Povl	(WIND)	Senior Scientist
Brøns, Morten	(COMPUTE)	Professor, PhD
Buhl, Thomas	(WIND)	Senior Scientist
Bumbach, Jan	(SDU-MAT)	Associate Professor
Bureau, Emil	(MEK-FAM)	PhD student
Byskov , Esben	(CIVIL, AAU)	Emeritus Professor, dr.techn.
Bøgh, Simon	(M-TECH, AAU)	PhD student
Baaatrup, Jens-Jørgen	(M-TECH, AAU)	Scientific Assistant
Calaon, Matteo	(MEK-MPP)	Research Assistant
Carlsen, Martin	(COMPUTE)	PhD student
Carstensen, Stefan	(MEK-FVM)	Associate Professor
Cederkvist, Jan		Elected member, PhD.
Cerullo, Michele	(MEK-FAM)	PhD student
Chapelle, Lucie	(WIND)	PhD student
Chirandini, Marco	(SDU-MAT)	Associate Professor

Chivaee, Hamid Sarlak	(WIND)	PhD student
Christensen, Erik Damgaard	(MEK-FVM)	Professor, Head Section
Christensen, Georg Kronborg	(MEK-K&P)	Associate Professor
Christensen, Martin Ebro	(MEK-K&P)	PhD student
Christensen, Ole	(COMPUTE)	Professor, dr.scient.
Christiansen, Christian Kim	(MEK-FAM)	PhD student
Christiansen, Esben Toke	(M-TECH, AAU)	PhD student
Christiansen, Jesper De Claville	(M-TECH, AAU)	Professor
Christiansen, Peter	(MEK-MPP)	PhD student
Christiansen, Ramus Ellebæk	(MEK-FAM)	PhD student
Christiansen, Rune Juul	(MEK-MTU)	PhD student
Christiansen, Thomas	(MEK-MTU)	Senior Scientist
Christiansen, Torben R. Bilgrav	(MEK-FVM)	PhD student
Chrysostomou, Dimitris	(M-TECH, AAU)	PhD student
Clausen, Anders	(MEK-FAM)	PhD student
Clausen, Johan Christian	(CIVIL-AAU)	Assstant Professor
Clausen, Lasse Røngaard	(MEK-TES)	PhD student
Comminal, Raphael	(MEK-MPP)	PhD student
Conseil, Helene	(MEK-MTU)	Scientific Assistant
Cordtz, Rasmus	(MEK-FM)	PhD student
Costache, Andrei	(MEK-FAM)	PhD student
Couturier, Philippe	(MEK-FAM)	PhD student
D'Angelo, Greta	(MEK-MPP)	PhD student
Dahl, Kristian Vinter	(MEK-MTU)	Postdoc.
Dalen, Kristine Røste	(MEK-TES)	PhD student
Damgaard, Cecilie Maria	(M-TECH, AAU)	PhD student
Damgaard, Jens Skov	M-TECH, AAU	Scientific Assistant
Damkilde, Lars	(CIVIL, AAU)	Professor
Dammann, Bernd	(COMPUTE)	Associate Professor
Danckert, Joachim	(M-TECH, AAU)	Professor
Dang, Quang Vinh	(M-TECH, AAU)	PhD student
Danielsen, Hilmar	(MEK-MTU)	Postdoc.
Darula, Radoslav	(M-TECH, AAU)	PhD student
Davidsdóttir, Svava	(MEK-MTU)	PhD student
De Chiffre, Leonardo	(MEK-MPP)	Professor
Debrabant, Kristian	(SDU-MAT)	Associate Professor
Della Morte, Michele	(SDU-MAT)	Associate Professor
Din, Rameez Ud	(MEK-MTU)	PhD student
Do, Ngoc Anh Dung	(M-TECH, AAU)	PhD student
Dou, Suguang	(MEK-FAM)	PhD student
Drozdov, Aleksey	(M-TECH, AAU)	Adjunct Professor
Dukovska-Popovska, iskra	(M-TECH, AAU)	Associate Professor
Eder, Martin Alexander	(WIND)	Researcher
Efler, Petr	(MEK-MTU)	Postdoc
Egelund, Arne Jørgensen	(MEK-TES)	Associate Professor
Elmegaard, Brian	(MEK-TES)	Associate Professor, Head of section
Elmegaard, Michael	(COMPUTE)	PhD student
El-Naaman, Salim	(MEK-FAM)	PhD student
Endelt, Benny Ørtoft	(M-TECH, AAU)	Associate Professor
Enemark, Søren	(MEK-FAM)	PhD student
Engsig-Karup, Allan Peter	(COMPUTE)	Assistant Professor
Eriksen, Rasmus Normann W.	(WIND)	PhD student
Eriksen, Thomas	(M-TECH, AAU)	PhD student
Evgrafov, Anton	(COMPUTE)	Associate Professor
Faber, Lene	(M-TECH, AAU)	Associate Professsor
Faber, Michael H.	(CIVIL)	Head of department
Farahani, Saeed D.	(M-TECH, AAU)	PhD student

Fedorov, Vladimir	(WIND)	PhD student
Fedorov, Vladimir	(WIND)	PhD student
Feng, Ju	(WIND)	Postdoc
Fernandes, Frederico Augusto	(MEK-MTU)	Postdoc
Filippenko, Georg V.	(M-TECH, AAU)	Associate Professor
Frandsen, Niels Morten Marselv	(MEK-FAM)	PhD student
Fredsøe, Jørgen	(MEK-FVM)	Professor
Frier, Christian	(CIVIL, AAU)	Associate Professor, PhD
Fuglede, Niels	(MEK-FAM)	PhD student
Fuhrman, David R.	(MEK-FVM)	Associate Professor
Gallego-Calderon, Juan	(WIND)	PhD student
Garcia, Néstor Ramos	(WIND)	Researcher
Georgakis, Christos	(CIVIL)	Associate Professor
Gervang, Bo	(ENG, AU)	Associate Professor
Giversen, Søren	(WIND)	PhD student
Glud, Jens Ammitzbøll	(M-TECH, AAU)	PhD student
Godi, Allesandro	(MEK-MPP)	PhD student
Gogebeur, Yuri	(SDU-MAT)	Associate Professor
Graeme, Keith		Elected member
Gravesen, Jens	(COMPUTE)	Associate Professor, dr.phil
Greiner, Martin	(ENG, AU)	Professor
Gudia, Visweswara	(MEK-MTU)	PhD student
Guerrier, Patrick	(MEK-MPP)	PhD student
Gunneskov, Ole		Elected member, PhD.
Guolaugsson, Tómas Vignir	(MEK-K&P)	PhD student
Habib, Turail	(M-TECH, AAU)	PhD student
Haglind, Fredrik	(MEK-TES)	Associate Professor
Haider, Sajjad	(MEK-FM)	Researcher
Hald, John	(MEK-MTU)	Affiliated Professor
Halkjær, Søren		Elected member
Haloui, Safia	(COMPUTE)	Postdoc
Hansen, Christian Lindschou	(MEK-K&P)	PhD student
Hansen, Claus Thorp	(MEK-K&P)	Associate Professor
Hansen, Hans Nørgaard	(MEK-MPP)	Professor, Head of Section
Hansen, John M.	(WIND)	Senior Scientist
Hansen, Klaus Schütt	(M-TECH, AAU)	PhD student
Hansen, Kurt Schaldemose	(WIND)	Senior Researcher
Hansen, Martin Otto Laver	(WIND)	Associate Professor
Hansen, Per Chr.	(COMPUTE)	Professor, dr. techn.
Harthøj, Anders	(MEK-MTU)	PhD student
Haselbach, Philipp	(WIND)	PhD student
Hassing, Henrik		Elected member, PhD
Hattel, Jesper Henri	(MEK-MPP)	Professor
Hauksdóttir, Dagný	(MEK-K&P)	PhD student
Hededal, Ole	(CIVIL)	Associate Professor
Heilmann, Irene	(COMPUTE)	PhD student
Heinen, Frederik	(M-TECH, AAU)	PhD student
Henriksen, Christian	(COMPUTE)	Associate Professor, PhD
Henriksen, Søren Randrup	(M-TECH, AAU)	Scientific Assistant
Hiller, Jochen	(MEK-MPP)	Postdoc
Hjorth, Poul	(COMPUTE)	Associate Professor, PhD
Hoffmann, Kristoffer	(COMPUTE)	PhD student
Horsewell, Andy	(MEK-MTU)	Professor
Hougaard, Peter		Elected member, PhD
Howard, Thomas J.	(MEK-K&P)	Associate Professor
Hrgovan, Iva	(WIND)	PhD student
Huang, Fenix Wenda	(SDU-MAT)	Postdoc

Hudecz, Adriana	(WIND)	PhD student
Hvolby, Hans-Henrik	(M-TECH, AAU)	Professor
Høgh, Jacob Herold	(MEK-FAM)	PhD student
Høgsberg, Jan Becker	(MEK-FAM)	Associate Professor
Høholdt, Tom	(COMPUTE)	Professor
Højlund, Carsten	(M-TECH, AAU)	PhD student
Ibsen, Lars Bo	(CIVIL, AAU)	Professor, MSO, PhD
Ingvorsen, Kristian Mark	(MEK-FVM)	Postdoc.
Islam, Mohammad Aminul	(MEK-MPP)	Postdoc.
Ivarsson, Anders	(MEK-TES)	Assistant Professor
Jabbari, Masoud	(MEK-MPP)	PhD student
Jacobsen, Christian Brix		Elected member, PhD.
Jacobsen, Henrik S.	(MEK-TES)	Scientific Assistant
Jakobsen, Johnny	(M-TECH, AAU)	Postdoc
Jakobsen, Kasper Rønnow	(WIND)	PhD student
Janakiraman, Shravan	(MEK-FAM)	PhD student
Jellesen, Morten Stendahl	(MEK-MTU)	Postdoc
Jensen, Bjarne	(MEK-FVM)	PhD student
Jensen, Erik Appel	(M-TECH, AAU)	Associate Professor
Jensen, Henrik Myhre	(ENG, AU)	Professor
Jensen, Jacob Hjelmager	(MEK-FVM)	Associate Professor
Jensen, Jakob S.	(MEK-FAM)	Associate Professor, PhD
Jensen, Jonas Kjær	(MEK-TES)	PhD student
Jensen, Jørgen Juncher	(MEK-FVM)	Professor
Jensen, Karsten Lindegård	(MEK-FVM)	PhD student
Jensen, Lars Rosgaard	(M-TECH, AAU)	Associate Professor
Jespersen, Freja Nygaard	(MEK-MTU)	PhD student
Johannesson, Björn	(CIVIL)	Associate Professor
Johansen, Villads Egede	(MEK-FAM)	PhD student
Juhl, Thomas Brokholm	(M-TECH, AAU)	PhD student
Jönsson, Jeppe	(CIVIL)	Professor
Jørgensen, John Bagterp	(COMPUTE)	Assistant Professor
Jørgensen, Kaj Asbjørn	(M-TECH, AAU)	Associate Professor
Jørgensen, Mads Carsten	(MEK-TES)	Scientific Assistant
Jørgensen, Martin Felix	(MEK-FAM)	PhD student
Kepler, Jørgen Asbøl	(M-TECH, AAU)	Associate Professor
Kermani, Nasrin Arjomand	(MEK-TES)	PhD student
Kiamehr, Saeed	(MEK-MTU)	PhD student
Kirkegaard, Poul Henning	(CIVIL, AAU)	Associate Professor
Kjartansdóttir, Cecilia	(MEK-MTU)	PhD student
Klein, Robert	(MEK-TES)	Scientific Assistant
Klit, Peder	(MEK-FAM)	Professor, PhD
Klonovs, Juris	(M-TECH, AAU)	PhD student
Knudsen, Kim	(COMPUTE)	Associate professor
Knudsen, Lars Ramkilde	(COMPUTE)	Professor
Knudsen, Thomas	(MEK-TES)	PhD student
Knudsen, Thomas S.		Elected member, PhD.
Kolakowska, Ewa	(M-TECH, AAU)	Associate Professor
Kolmogorov, Dmitry	(WIND)	PhD student
Kook, Junghwan	(MEK-FAM)	Postdoc
Koukoura, Christina	(WIND)	PhD student
Krenk, Steen	(MEK-FAM)	Professor
Kristensen, Anders Schmidt	(CIVIL, AAU)	Associate Professor
Kristensen, Hans O. H.	(MEK-FVM)	Senior Researcher
Kristensen, Kristian	(COMPUTE)	IT-Manager
Kristensen, Sten Esbjørn	(MEK-FVM)	PhD student
Kristiansen, Kristian Uldall	(COMPUTE)	Postdoc

Kristiansen, Morten	(M-TECH, AAU)	Associate Professor
Krüger, Voker	(M-TECH, AAU)	Associate Professor
Kærn, Martin Ryhl	(MEK-TES)	PhD student
Labanda, Susana Rojas	(WIND)	PhD student
Laier-Brodersen, Mark	(MEK-FAM)	PhD student
Larsen, Jan Balle		Elected member, PhD.
Larsen, Jesper Kranker	(M-TECH, AAU)	PhD student
Larsen, Jon Steffen	(MEK-FAM)	PhD student
Larsen, Poul Scheel	(MEK-FVM)	Emeritus Professor
Larsen, Raino Mikael	(M-TECH, AAU)	Associate Professor
Larsen, Ulrik	(MEK-TES)	PhD student
Laustsen, Steffen	(M-TECH, AAU)	PhD student
Lazarov, Boyan Stefanov	(MEK-FAM)	Senior Researcher
Lee, Seunghwan	(MEK-MTU)	Associate Professor
Legarth, Brian N.	(MEK-FAM)	Associate Professor, PhD
Lemvig, Jakob	(COMPUTE)	Assistant Professor
Lenau, Torben Anker	(MEK-K&P)	Associate Professor
Li, Shizhao	(MEK-MPP)	Scientific Assistant
Lilholt, Hans	(WIND)	Chief Scientist
Lindgren, Peter	(M-TECH, AAU)	Associate Professor
Lindgaard, Esben	(M-TECH, AAU)	Assistant Professor
Lindhard, Søren Munch	(M-TECH, AAU)	Assistant Professor
Lind-Nielsen, Birger		Elected member, PhD.
Lomholt, Trine Colding	(MEK-MTU)	PhD student
Lopez, Angel Alfonso	(MEK-MTU)	PhD student
Lund, Erik	(M-TECH, AAU)	Professor
Lund, Ivar		Elected member, Associate Professor
Lythcke-Jørgensen, Christoffer	(MEK-TES)	PhD student
Lützen, Marie		Elected member, Associate Professor
Madsen, Bo	(WIND)	Seniør Scientist
Madsen, Jan Busk	(MEK-MTU)	PhD student
Madsen, Ole	(M-TECH, AAU)	Professor
Madsen, Per A.	(MEK-FVM)	Professor
Madsen, Søren Peder	(ENG, AU)	Associate Professor
Mahshid, Rasoul	(MEK-MPP)	PhD student
Manca, Marcello	(WIND)	PhD student
Manouchehr, Mehrtash	(MEK-FAM)	Scientific Assistant
Marhöfer, David Maximilian	(MEK-MPP)	PhD student
Markussen, Wiebke Brix	(MEK-TES)	Assistant Professor
Markvorsen, Steen	(COMPUTE)	Professor, dr. techn.
Marmaras, Konstantinos	(WIND)	PhD student
Marschler, Christian	(COMPUTE)	PhD student
Martakos, Georgios	(M-TECH, AAU)	PhD student
Mazzucco, Andrea	(MEK-TES)	PhD student
McAloone, Tim C.	(MEK-K&P)	Associate Professor
Menotti, Stefano	(MEK-MPP)	PhD student
Meyer, Knud Erik	(MEK-FVM)	Associate Professor
Mikkelsen, Lars Pilgaard	(WIND)	Senior Scientist
Mikkelsen, Robert Flemming	(WIND)	Senior Researcher
Mischkot, Michael	(MEK-MPP)	Sceintific Assistant
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Modi, Anish	(MEK-TES)	PhD student
Mohaghegh, Kamran	(MEK-MPP)	Researcher
Mohanty, Sankhya	(MEK-MPP)	PhD student
Montgomery, Melanie	(MEK-MTU)	Associate Professor
Morsbøl, Jonas	(M-TECH, AAU)	PhD student
Mortensen, Flemming	(ENG, AU)	Senior Associate Professor

Mortensen, Niels Henrik	(MEK-K&P)	Professor, Head of the section
Mougaard, Krestine	(MEK-K&P)	PhD student
Mouritsen, Ole Ø.	(M-TECH, AAU)	Associate Professor
Møller, Per	(MEK-MTU)	Professor
Nalpantidis, Lazaros	(M-TECH, AAU)	Assistant Professor
Natarajan, Anand	(WIND)	Senior Scientist
Nellemann, Christopher	(MEK-FAM)	PhD student
Neugebauer, Line Maria	(MEK-K&P)	PhD student
Neumeyer, Stefan	(MEK-FAM)	PhD student
Nguyen, Nhut	(COMPUTE)	PhD student
Nguyen, Tuong-Van	(MEK-TES)	PhD student
Nguyen, Vivi Thuy	(M-TECH, AAU)	PhD student
Nielsen, Bo Bjerregaard	(MEK-FAM)	PhD student
Nielsen, Chris Valentin	(MEK-MPP)	PhD student
Nielsen, Claus Suldrup	(MEK-FM)	PhD student
Nielsen, Daniel Rønne	(MEK-TES)	PhD student
Nielsen, Izabela Ewa	(M-TECH, AAU)	Associate Professor
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Nielsen, Johan S. Rosenkilde	(COMPUTE)	PhD student
Nielsen, Karl Brian	(M-TECH, AAU)	Professor
Nielsen, Kim Lau	(MEK-FAM)	Assistant Professor
Nielsen, Kjeld	(M-TECH, AAU)	Phd student
Nielsen, Leif Otto	(CIVIL)	Associate Prof. Emeritus
Nielsen, Martin Bjerre	(MEK-FAM)	Assistant Professor
Nielsen, Niels-Jørgen Rishøj		Elected member, PhD.
Nielsen, Oluf Skov	(M-TECH, AAU)	PhD student
Nielsen, Peter	(M-TECH, AAU)	Associate Professor
Nielsen, Peter Søe	(MEK-MPP)	PhD student
Nielsen, Rasmus Bruus	(M-TECH, AAU)	PhD student
Nielsen, Søren R.K.	(CIVIL, AAU)	Professor, dr.techn.
Nielsen, Ulrik Dam	(MEK-FVM)	Assistant Professor
Niordson, Christian	(MEK-FAM)	Associate Professor, PhD
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Nørtoft, Peter	(COMPUTE)	Assistant Professor
Ok, Seongmin	(COMPUTE)	PhD student
Okoro, Sunday Chukwudi	(MEK-MTU)	PhD student
Okulov, Valery	(WIND)	Professor
Olafsson, Olafur Magnus	(WIND)	PhD student
Olesen, Christian Gammelgaard	(M-TECH, AAU)	Assistant Professor
Olesen, John Forbes	(CIVIL)	Associate Professor
Olesen, Peter Bjerg	(M-TECH, AAU)	PhD student
Olhoff, Niels	(M-TECH, AAU)	Emeritus Professor
Omidvarnia, Farzaneh	(MEK-MPP)	PhD student
Ommen, Torben Schmidt	(MEK-TES)	PhD student
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Pedersen, Michael	(COMPUTE)	Professor

Pedersen, Mikkel Rath	(M-TECH, AAU)	PhD student
Pedersen, Niels L.	(MEK-FAM)	Associate Professor, dr.techn.
Pedersen, Pauli	(MEK-FAM)	Emeritus Professor, dr.techn., HD
Pedersen, Preben Terndrup	(MEK-FVM)	Emeritus Professor, PhD
Pedersen, Thomas Ørts		Elected member, PhD.
Pereira, Gilmar Ferreira	(WIND)	PhD student
Petersen, Helga Nørgaard	(WIND)	PhD student
Petersen, Henrik Gordon		Elected member, Professor
Petersen, Thomas		Elected member, PhD
Petersen, Thomas Ditlev	(M-TECH, AAU)	Assistant Professor
Petersen, Thor Ugelvig	(MEK-FVM)	PhD student
Pica, Claudio	(SDU-MAT)	Professor mso.
Pierobon, Leonardo	(MEK-TES)	PhD student
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Pilný, Lukás	(MEK-MPP)	PhD student
Pinero, Fernando	(COMPUTE)	PhD student
Poulios, Konstantinos	(MEK-FAM)	PhD student
Poulsen, Peter Noe	(CIVIL)	Associate Professor
Poulsen, Uffe	(ENG, AU)	Assistant Professor
Pyrz, Ryszard	(M-TECH, AAU)	Professor
Rasmussen, Arne P.	(M-TECH, AAU)	Teaching Associate Professor
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Ravn, Poul Martin	(MEK-K&P)	PhD student
Ravn-Jensen, Kim		Elected members, PhD.
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Røn, Troels	(MEK-MTU)	PhD student
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Saremi, Sina	(MEK-FVM)	PhD student
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Schilder, Frank	(COMPUTE)	Assistant Professor, dr.phil.
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Schløer, Signe	(WIND)	PhD student
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Selchau, Jacob	(M-TECH, AAU)	Staff member with university degree
Seng, Sopheak	(MEK-FVM)	PhD student
Shen, Wen Zhong	(WIND)	Associate Professor

Sichani, Mahdi Teimouri	(CIVIL, AAU)	PhD student
Sigmund, Ole	(MEK-FAM)	Professor, dr.techn., Head of section
Sigurjonsson, Hafthor Ægir	(MEK-TES)	PhD student
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Sørensen, John Dalsgaard	(CIVIL, AAU)	Professor, ph.d.
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Sørensen, Niels Jakob		Elected member, PhD
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Thorborg, Jesper	(MEK-MPP)	Assistant Professor
Tiedje, Niels Skat	(MEK-MPP)	Associate Professor
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Toftegaard, Helmuth L.	(WIND)	Senior Scientist
Tommerup, Søren	(M-TECH, AAU)	Assistant Professor
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Tvergaard, Viggo	(MEK-FAM)	Professor Emeritus, dr.techn.
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Westlye, Frederik Ree	(MEK-TES)	PhD student
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Wind-Willassen, Øistein	(COMPUTE)	PhD student
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Wronski, Jorrit	(MEK-TES)	PhD student
Wu, Guanglei	(M-TECH, AAU)	PhD student
Wöhner, Timo	(MEK-MPP)	PhD student
Wörösch, Michael	(MEK-K&P)	PhD student
Yang, Jian	(M-TECH, AAU)	Staff member with university degree
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Zafar, Ashar	(M-TECH, AAU)	PhD student
Zhang, Xuping	(ENG, AU)	Associate Professor
Zhang, Yang	(MEK-MPP)	PhD student
Zhou, Lelai	(M-TECH, AAU)	PhD student
Zhou, Mingdong	(MEK-FAM)	Postdoc
Zhu, Wei Jun	(WIND)	Senior Researcher
Zike, Sanita	(WIND)	PhD student
Øye, Stig	(WIND)	Senior Researcher
Aage, Niels	(MEK-FAM)	Researcher

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