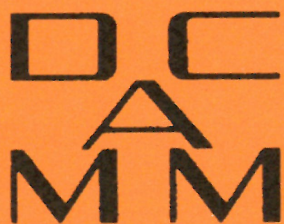


DANISH CENTER FOR APPLIED MATHEMATICS AND MECHANICS

ANNUAL REPORT
2015



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

DANISH CENTER FOR APPLIED MATHEMATICS AND MECHANICS

Scientific Council as of January 2016

Morten Brøns	DTU Compute
Allan P. Engsig-Karup	DTU Compute
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
Holger Koss	DTU Civil Engineering
Erik Lund	Dept. of Mechanical Engineering, AAU
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Jens Starke	DTU Compute
Mathias Stolpe	DTU Wind Energy
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FOREWORD

This annual report about the year 2015 contains information on publications, seminars and guests. For the first time the annual report will primarily be made available electronically, however a limited amount will be printed and is available on request. The purpose of the report is still to serve as a reference and documentation for accomplished activities. The detailed information is available on our homepage www.dcammm.dk and on the homepages of the cooperating departments.

In 2015 a total of 21 DCAMM seminars were given, this is an exceptional high number of seminars. The number of participants in the seminars were also high indicating the importance of these events. A total of 12 courses were given in the auspices of DCAMM. The annual speaker seminar was this year given by Professor Julia R. Greer from California Institute of Technology under the title "Materials by Design: 3-Dimensional Architected Nanostructured Meta-Materials". The lecture was given at DTU and AAU. All details are available at the DCAMM homepage.

As of January 1st 2016, 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

Department of Technology and Innovation

I thank all the members of DCAMM and our international contacts for their support and inspiration, and I look forward to our future continued collaboration.

Niels Leergaard Pedersen

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1. MEMBERS 2015

57 professors
208 scientific members
132 PhD students

} at the nine cooperating departments at the Center

27 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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Professor John W. Hutchinson
Division of Applied Sciences
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Professor Joseph B. Keller
Department of Mathematics and Mechanical Engineering
Stanford University, Stanford, California
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Professor Michael S. Longuet-Higgins
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University of Cambridge
UK

Professor Ole Secher Madsen
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Massachusetts Institute of Technology
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USA

Professor Alan Needleman
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TX 77843-3003
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Professor S. Nemat-Nasser
The UCSD Jacobs School of Engineering
Center of Excellence for Advanced Materials
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La Jolla, CA 92093
USA

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

3. GUESTS FOR EXTENDED PERIODS IN 2015 (more than a fortnight)

Guest professors & post docs:

Barari, Amin, Aalborg University, 1.8.15 – 30.9.15

Bayraktar, Deniz, Istanbul Technical University, Turkey, 20.4.15 -

Carlsson, Leif A., Florida Atlantic University, USA, 1.5.15 – 31.5.15

Gaididei, Yuri, Kiev, Ukraine, 1.2.15-31.3.15 & 1.9.15 – 31.10.15

Kim, Rae Young, KAIST, Korea, 20.7.15 – 31.8.15

Ma, Pengyu, Chang'an University, China, 1.12.2015 -

Martins, Paolo, Univ. of Lissabon, Portugal, 1.4.15 – 15.6.15

Pedersen, Claus B.W., 3D Software Company (3ds), 24.8. – 18.9 & 19.10. – 30.10.15

Stoeva, Diana, Univ. of Wien, Austria, 1.2.15 – 29.2.15

Stoppelkamp, Nick, 3D Software Company (3ds), Germany, 12.6.15 – 10.7.15 &
16.11.15 – 18.12.15

Valkeapää, Antti, Laboratory of Machine Design, Finland, 4.5.15 – 31.8.15

PhD students

- Borges de Oliveira, Fabricio, PTB, Germany, 3.4.15 – 3.5.15 & 15.9.15 – 13.11.15
- D'Angelo, Luca, University of Milano-Bicocca, Italy, 13.1.15 – 29.6.15
- Desideri, Adriano, Université de Liège, Belgium, 1.5.15 – 30.9.15 & 19.10.15 – 6.11.15
- Dong, Haowen, Beijing Jiaotong University, China, 15.4.15 – 15.7.15
- Gouin, Maite, Ecole Centrale de Nantes, France, 17.8.15 – 6.9.15
- Haminudin, Nor Faizah, Tech. University of Malacca, Malaysia, 1.10.15 -
- Joshi, Yogendra, University of Warwick, UK, 15.9.15 – 31.10.15
- Katsakouli, Christina, University of Patras, Greece, 16.2.15 – 13.5.15
- Lu, Hongya, Qinghua University, Beijing, China, 26.2.15 – 1.10.15
- Mirsadraee, Yasaman, MAN Diesel & Turbo, 1.3.15 -
- Oyarzua, Elton, Universidad de Concepcion, Chile, 16.3.15 – 13.5.15
- Patil, Navin, University of Calabria, India, 1.2.15 – 31.7.15
- Rosso, Catalina F., Nat. University of Central Buenos Aires, Argentina, 1.9.15 – 28.11.15
- Sajjadnejad, Mohammad, Amirkabir University of Technology, Iran, 9.2.15 – 8.8.15
- Winklmaier, Martin, Technical University, München, Germany, 21.2.15 – 7.3.15
- Yaacob, Mohd Rusdy, Tech. University of Malacca, Malaysia, 1.6.15 –
- Zhang, Zhuo, Beijing University of Technology, China, 1.10.15 -

4. PUBLICATIONS IN 2015

4A. INTERNATIONAL JOURNALS WITH PEER REVIEW

A

Adesokan, B. J.; Evgrafov, A.; Sørensen, M. P.

Simulating cyclic voltammetry under advection for electrochemical cantilevers. *Mathematical Methods in the Applied Sciences*, (2015), 38(16), 3384-3391.

Adesokan, B. J.; Quan, X.; Evgrafov, A.; Heiskanen, A.; Boisen, A.

Hydrodynamics studies of cyclic voltammetry for electrochemical micro biosensors. *Journal of Physics: Conference Series (Online)*, (2015), 574.

Aggerbeck, M.; Herbretreau, A.; Rombouts, M.; Verwimp, J.; Ambat, R.

Alkaline corrosion properties of laser-clad aluminum/titanium coatings. *Anti-Corrosion Methods and Materials* (2015), 62(1), 37-47.

Alexandersen, J.; Lazarov, B.S.

Topology optimisation of manufacturable microstructural details without length scale separation using a spectral coarse basis preconditioner. *Computer Methods in Applied Mechanics and Engineering*, (2015), 290, 156-182.

de Leon, D.M.; Alexandersen, J.; Jun, J.S.; Sigmund, O.

Stress-constrained topology optimization for compliant mechanism design. *Structural and Multidisciplinary Optimization*, (2015), 52(5), 929-943.

Bayat, M.; Ghorasi, S. S.; Amani, J.; Andersen, L. V.; Ibsen, L. B.; Rabczuk, T.; Talebi, H.
Recovery-based error estimation in the dynamic analysis of offshore wind turbine monopile foundations. *Computers and Geotechnics*, (2015), 70(October), 24-40.

Damgaard, M.; Andersen, L. V.; Ibsen, L. B.

Assessment of dynamic substructuring of a wind turbine foundation applicable for aeroelastic simulations. *Wind Energy*, (2015), 18(8), 1387-1401.

Damgaard, M.; Andersen, L. V.; Ibsen, L. B.

Dynamic response sensitivity of an offshore wind turbine for varying subsoil conditions. *Ocean Engineering*, (2015), 101, 227-334.

Damgaard, M.; Andersen, L. V.; Ibsen, L. B.; Toft, H. S.; Sørensen, J. D.

A probabilistic analysis of the dynamic response of monopile foundations: Soil variability and its consequences. *Probabilistic Engineering Mechanics*, (2015), 41, 46-59.

Madsen, S.; Pinna, R.; Randolph, M. F.; Andersen, L. V.

Buckling of Monopod Bucket Foundations – Influence of Boundary Conditions and Soil-structure Interaction. *Wind and Structures*, (2015), 21(6), 641-656.

- Vahdatirad, M.; Bayat, M.; Andersen, L. V.; Ibsen, L. B.
Probabilistic finite element stiffness of a laterally loaded monopole based on an improved asymptotic sampling method. *Journal of Civil Engineering and Management*, (2015), 21(4), 503-513.
- Yi, J-H.; Kim, S-B.; Yoon, G-L.; Andersen, L. V.
Natural frequency of bottom-fixed offshore wind turbines considering pile-soil-interaction with material uncertainties and scouring depth. *Wind and Structures, An International Journal*, (2015), 21(6), 625-639.
- Benoit, D.L.; Damsgaard, M.; Andersen, M.S.
Surface marker cluster translation, rotation, scaling and deformation: Their contribution to soft tissue artefact and impact on knee joint kinematics. *Journal of Biomechanics*, (2015), 48(10), 2124-2129.
- Farahani, S.D.; Andersen, M.S., de Zee, M.; Rasmussen, J.
Human arm posture prediction in response to isometric endpoint forces. *Journal of Biomechanics*, (2015), 48(15), 4178-4184.
- Farahani, S.D.; Andersen, M.S.; de Zee, M.; Rasmussen, J.
Optimization-based dynamic prediction of kinematic and kinetic patterns for a human vertical jump from a squatting position. *Multibody System Dynamics*, (2015), 36(1), 37-65.
- Farahani, S.D.; Bertucci, W.; Andersen, M.S.; de Zee, M.; Rasmussen, J.
Prediction of crank torque and pedal angle profiles during pedaling movements by biomechanical optimization. *Structural and Multidisciplinary Optimization*, (2015), 51(1), 251-266.
- Mellon, S.; Grammatopoulos, G.; Andersen, M.S.; Pandit, H.; Gill, H.; Murray, D.
Optimal acetabular component orientation estimated using edge-loading and impingement risk in patients with metal-on-metal hip resurfacing arthroplasty. *Journal of Biomechanics*, (2015), 48(2), 318-323.
- Shin, K.W.; Andersen, P.
CFD analysis of cloud cavitation on three tip-modified propellers with systematically varied tip geometry. *Journal of Physics: Conference Series*, (2015), 656(5).
- Baran, I.; Jakobsen, J.; Andreasen, J.H.; Akkerman, R.
Investigation of the Residual Stress State in an Epoxy Based Specimen. *Key Engineering Materials*, (2015), 651-653, 375-380.
- Jakobsen, J.; Andreasen, J.H.; Jensen, M.
A novel biaxial specimen for inducing residual stresses in thermoset polymers and fibre composite material. *Journal of Composite Materials*, (2015), 49(22), 2723-2731.
- Andreassen, E.; Manktelow, K.; Ruzzene, M.
Directional bending wave propagation in periodically perforated plates. *Journal of Sound and Vibration*. (2015), 335, 187–203

Andreassen, E.; Manktelow, K.; Ruzzene, M.

A practical multiscale approach for optimization of structural damping. *Structural and Multidisciplinary Optimization*, (2015), 53(2), 215-224

Andreasen, J. G.; Larsen, U.; Knudsen, T.; Haglund, F.

Design and optimization of a novel organic Rankine cycle with improved boiling process. *Energy*, (2015), 91, 48-59

Andresen, G. B.; Søndergaard, A. A.; Greiner, M.

Validation of Danish wind time series from a new global renewable energy atlas for energy system analysis. *Energy*, (2015), 93(1), 1074-1088.

Becker, S.; Frew, B. A.; Andresen, G. B.; Jacobsen, M. Z.; Schramm, S.; Greiner, M.

Renewable build-up pathways for the US: Generation costs are not system costs. *Energy*, (2015), 81, 437-445.

Tranberg, B.; Thomasen, A. B.; Rodriguez, R. A.; Andresen, G. B.; Schäfer, M.; Greiner, M.

Power flow tracing in a simplified renewable European electricity network. *New Journal of Physics*, (2015), 17.

Arora, V.

Direct structural damping identification method using complex FRFs. *Journal of Sound and Vibration*, (2015), 339, 304-323.

B

Bai, S.; Angeles, J.

Coupler-curve synthesis of four-bar linkages via a novel formulation. *Mechanism and Machine Theory*, (2015), 94, 177-187.

Bai, S.; Angeles, J.

Synthesis of RCCC linkages to visit four given poses. *Journal of Mechanisms and Robotics*, (2015), 7(3).

Wu, X.; Liu, D.; Chen, W.; Wang, J.; Bai, S.; Li, Z.; Ren, G.

Image processing assisted locomotion observation of cockroach *Blattella germanica*. *Transactions of the Institute of Measurement and Control*, (2015), 37(4), 522-535.

Zhou, L.; Bai, S.

A new approach to design of a lightweight anthropomorphic arm for service applications. *Journal of Mechanisms and Robotics*, (2015), 7(3).

Zhou, L.; Bai, S.; Andersen, M.S.; Rasmussen, J.

Modeling and Design of a Spring-loaded, Cable-driven, Wearable Exoskeleton for the Upper Extremity. *Modeling, Identification and Control (Online)*, (2015), 36(3), 167-177.

Bak, B.L.V.; Turon, A.; Lindgaard, E.; Lund, E.

A Simulation Method for High-Cycle Fatigue-Driven Delamination using a Cohesive Zone Model. *International Journal for Numerical Methods in Engineering*, (2015).

- Balci, A.; Andersen, M.; Thompson, M. C.; Brøns, M.
Codimension of three bifurcation of streamline patterns close to a no-slip wall: A topological description of boundary layer eruption. *Physics of Fluids*, (2015), 27(5).
- Balci, A.; Brøns, M.; Herrada, M. A.; Shtern, V. N.
Vortex breakdown in a truncated conical bioreactor. *Fluid Dynamics Research*, (2015), 47(6).
- Hyldahl, P. C.; Andersen, S.; Mikkelsen, S.; Balling, O.
Modeling and Feasibility Study on Nonlinear Suspension Components in Multibody Systems using Absolute Nodal Coordinate Formulation Based Beam Elements – Application to Stabilize Bar. *S A E International Journal of Passenger Cars – Mechanical Systems*, (2015), 81(2), 449-459.
- Bang-Jensen, J.; Bessy, S.
Cycle Transversals in Tournaments with Few Vertex Disjoint Cycles. *Journal of Graph Theory*, (2015), 79(4), 249-266.
- Bang-Jensen, J.; Casselgren, C. J.
Restricted cycle factors and arc-decompositions of digraphs. *Discrete Applied Mathematics*, (2015), 193(1), 80-93.
- Bang-Jensen, J.; Halldorsson, M. M.
Vertex coloring edge-weighted digraphs. *Informations Processing Letters*, (2015), 115(10), 791-796.
- Bang-Jensen, J.; Havet, F.; Maia, A. K.
Finding a subdivision of a digraph. *Theoretical Computer Science*, (2015), 562, 283-303.
- Bang-Jensen, J.; Maddaloni, A.
Sufficient Conditions for a Digraph to be Supereulerian. *Journal of Graph Theory*, (2015), 79(1), 8-20.
- Bang-Jensen, J.; Yeo, A.
Balanced branchings in digraphs. *Theoretical Computer Science*, (2015), 595, 107-119.
- Barlas, E.; Buckingham, S.; van Beeck, J.
Roughness Effects on Wind-Turbine Wake Dynamics in a Boundary-Layer Wind Tunnel. *Boundary-Layer Meteorology*, (2015), 158(1), 27-42.
- Palleti, H.N.K.T.; Zhang, S.R.K.F.; Barton, J.; Thomsen, O.T.
Influence of thermomechanical interaction effects on the failure behavior of polymer foam cored sandwich panels. *Journal of Sandwich Structures & Materials*, (2015), 17(3), 308-331.
- Wang, W.; Martakos, G.; Barton, J.; Andreasen, J.H.; Thomsen, O.T.
Fracture Behaviour at Tri-material Junctions of Crack Stoppers in Sandwich Structures. *Composite Structures*, (2015), 133, 818-833.
- Baumbach, J.; Guo, J.; Ibragimov, R.
Covering tree with stars. *Journal of Combinatorial Optimization*, (2015), 2981, 141-152.

- Abreu, V. A. C.; Almeida, S.; Tiwari, S.; Hasan, S. S.; Mariano, D. Silva, A.; Baumbach, J.; Azevedo, V.; Röttger, R.
CMRegNet-An interspecies reference database for corynebacterial and mycobacterial regulatory networks. *B M C Genomics*, (2015), 16.
- List, M.; Franz, M.; Tan, Q.; Mollenhauer, J.; Baumbach, J.
OpenLabNotes: An Electronic Laboratory Notebook Extension for OpenLabFramework. *Journal of integrative bioinformatics*, (2015), 12(3).
- Wiwie, C.; Baumbach, J.; Röttger, R.
Comparing the performance of biomedical clustering methods. *Nature Methods*, (2015), 12(11), 1033-1038.
- Al Naimi, I.K.; Al-Saadi, M.H.; Daws, K.M.; Bay, N.O.
Improving resistance welding of aluminum sheets by addition of metal powder. *Institution of Mechanical Engineers. Proceedings. Part L. Journal of Materials: Design and Applications*, (2015), 229(6), 493-502.
- Beelen, P.; Ghorpade, S. R.; Hasan, S. U.
Linear codes associated to determinantal varieties. *Discrete Mathematics*, (2015), 338(8), 1493-1500.
- Beelen, P.; Pinero, F.
The structure of dual Grassmann codes. *Designs, Codes and Cryptography*, (2015), 20.
- Bassa, A.; Beelen, P.; Garcia, A.; Stichtenoth, H.
Towers of Function Fields over Non-prime Finite Fields. *Moscow Mathematical Journal*, (2015), 15(1), 1-29.
- Nielsen, J. S. R.; Beelen, P.
Sub-quadratic decoding of one-point hermitian codes. *IEEE Transactions on informations Theory*, (2015), 61(6), 3225-3240.
- Bellemo, L.; Elmegaard, B.; Kærn, M.R.; Markussen, W.B.; Reinholdt, L.O.
Formulation and validation of a two-dimensional steady-state model of desiccant wheels. *Science and Technology for the Built Environment*, (2015), 21(3), 300-311.
- Dimitrov, N.K.; Berggreen, C.
Probabilistic fatigue life of balsa cored sandwich composites subjected to transverse shear. *Journal of Sandwich Structures & Materials*, (2015), 17(5), 562-577.
- Dimitrov, N.K.; Kiureghian, A.D.; Berggreen, C.
Bayesian inference model for fatigue life of laminated composites. *Journal of Composite Materials*, (2015), 50(2), 131-143.
- Nielsen, K.; Bingham, H.B.
MARINET experiment KNSWING testing an I-Beam OWC attenuator. *International Journal of Marine Energy*, (2015), 12, 21-34.

Bingham, H.B.; Ducasse, D.; Nielsen, K.; Read, R.

Hydrodynamic analysis of oscillating water column wave energy devices. *Journal of Ocean Engineering and Marine Energy*, (2015), 1(4), 405-419.

Tang, P.T.; Ravn, C.; Menotti, S.; Bissacco, G.; Hansen, H.N.

Characterization methods of nano-patterned surfaces generated by induction heating assisted injection molding. *International Journal of Automation Technology*, (2015), 9(4), 349-355.

Tristo, G.; Bissacco, G.; Lebar, A.; Valentinčič, J.

Real time power consumption monitoring for energy efficiency analysis in micro EDM milling. *International Journal of Advanced Manufacturing Technology*, (2015), 78(9), 1511-1521.

Blasques, J.P.A.A.; Bitsche, R.D.; Fedorov, V.; Lazarov, B.S.

Accuracy of an efficient framework for structural analysis of wind turbine blades. *Wind Energy*, (2015).

Borg, M.; Collu, M.

Frequency-domain characteristics of aerodynamic loads of offshore floating vertical axis wind turbines. *Applied Energy*, (2015), 155, 629-636.

Bottoli, F.; Winther, G.; Christiansen, T.L.; Somers, M.A.J.

Influence of Plastic Deformation on Low-Temperature Surface Hardening of Austenitic Stainless Steel by Gaseous Nitriding. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, (2015), 46A(6), 2579-2590.

Bottoli, F.; Winther, G.; Christiansen, T.L.; Somers, M.A.J.

Influence of Microstructure and Process Conditions on Simultaneous Low-Temperature Surface Hardening and Bulk Precipitation Hardening of Nanoflex®. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, (2015), 46A (11), 5201-5216.

Brander, D.; Dorfmeister, J.

Deformations of constant mean curvature surfaces preserving symmetries and the Hopf differential. *Annali della Scuola Normale Superiore di Pisa – Classe di Scienze*, (2015), XIV(2), 645-675.

Brander, D.; Inoguchi, J-I.; Kobayashi, S.

Constant Gaussian curvature surfaces in the 3-sphere via loop groups. *Pacific Journal of Mathematics*, (2014), 269(2), 281-303.

Brandt, A.; Sturesson, P-O.; Ristinmaa, M.

Test Analysis Verification Using Open Software. *Sound and Vibration*, (2014), 13-16.

Passon, P.; Branner, K.

Condensation of long-term wave climates for the fatigue design of hydrodynamically sensitive offshore wind turbine support structures. *Ships and Offshore Structures*, (2015), 11(2), 142-166.

Rosemeier, M.; Berring, P.; Branner, K.

Non-linear ultimate strength and stability limit state analysis of a wind turbine blade. *Wind Energy*, (2015).

Bredmose, H.; Bullock, G.N.; Hogg, A.J.
Violent breaking wave impacts. Part 3. Effects of scale and aeration. *Journal of Fluid Mechanics*, (2015), 765, 82-113.

Alzamora Guzman, V.J.; Brøndsted, P.
Effects of moisture on glass fiber-reinforced polymer composites. *Journal of Composite Materials*, (2015), 49(8), 911-920.

Brøns, M.; Desroches, M.; Krupa, M.
Mixed-Mode Oscillations Due to a Singular Hopf Bifurcation in a Forest Pest Model. *Mathematical Population Studies*, (2015), 39, 71-79.

Brøns, M.; Thompson, M. C.; Leweke, T.; Hourigan, K.
Vorticity generation and conservation from two-dimensional interfaces and boundaries. *Journal of Fluid Mechanics*, (2014), 758, 63-93.

Benoît, E.; Brøns, M.; Desroches, M.; Krupa, M.
Extending the zero-derivative principle for slow-fast dynamical systems. *Zeitschrift fuer Angewandte Mathematik und Physik*, (2015), 66(5), 2255-2270.

Vinther, F.; Pinelo, M.; Brøns, M.; Jonsson, G. E.; Meyer, A. S.
Predicting optimal back-shock times in ultrafiltration hollow fiber modules II: Effect of inlet flow and concentration dependent viscosity. *Journal of Membrane Science*, (2015), 493, 486-495.

Budzik, M. K.; Jensen, H. M.; Jumel, J.
Fracture in the single cantilever beam test with large scale bridging. *Key Engineering Materials*, (2015), 627, 221-224.

Jumel, J.; Salem, N. B.; Budzik, M. K.; Shanahan, M. E. R.
Measurement of interface cohesive stresses and strains evolutions with combined mixed mode crack propagation test and Backface Strain Monitoring measurements. *International Journal of Solids and Structures*, (2015), 52, 33-44.

Møberg, A.; Budzik, M. K.; Jensen, H. M.
Analysis of Perturbed Crack Front in a Cantilever Beam Geometry. *Journal of the Adhesion Society of Japan*, (2015), 51, 231-232.

Møberg, A.; Budzik, M. K.; Jensen, H. M.
Intersection of Interface Crack Front with Free Edge. *Key Engineering Materials*, (2015), 627, 225-228.

Possart, W.; Jumel, J.; Budzik, M. K.; Guitard, J.; Shanahan, M. E. R.
Experimental study of cohesive strain prior to crack initiation in constant force single cantilever beam test. *Journal of Adhesion Science and Technology*, (2015), 29(9), 896-909.

C

Calaon, M.; Madsen, M.H.; Weirich, J.; Hansen, H.N.; Tosello, G.; Hansen, P.E., Garnaes, J.; Tang, P.T.

Replication fidelity assessment of large area sub- μm structured polymer surfaces using scatterometry. *Surface Topography: Metrology and Properties*, (2015), 3.

Chivaae, H.S.; Sørensen, J.N.

Analysis of throw distances of detached objects from horizontal-axis wind turbines. *Wind Energy*, (2015), 19(1), 151-166.

Christensen, O.; Forster, B.; Massopust, P.

Directional Time-frequency Analysis via Continuous Frames. *Australian Mathematical Society. Bulletin*, (2015), 92(2), 268-281.

Christensen, O.; Goh, S.

Fourier-like frames on locally compact abelian groups. *Journal of Approximation Theory*, (2015), 192, 82-101.

Christensen, O.; Kim, H. O.; Kim, R. Y.

On Gabor frames generated by sign-changing windows and B-splines. *Applied and Computational Harmonic Analysis*, (2015), 39(3), 534-544.

Stoeva, D. T.; Christensen, O.

On R-Duals and the Duality Principle in Gabor Analysis. *Journal of Fourier Analysis and Applications*, (2015), 21(2), 383-400.

Christiansen, P.; Martins, P.A.F.; Bay, N.O.; Hattel, J.H.

Numerical modelling of damage evolution in ingot forging. *Key Engineering Materials*, (2015), 651-653, 237-242

Christiansen, R.E.; Lazarov, B.S.; Jensen, J.S.; Sigmund, O.

Creating geometrically robust designs for highly sensitive problems using topology optimization: Acoustic cavity design. *Structural and Multidisciplinary Optimization*, (2015), 52(4), 737-754.

Christiansen, R.E.; Sigmund, O.; Fernandez Grande, E.

Experimental validation of a topology optimized acoustic cavity. *Journal of the Acoustical Society of America*, (2015), 138(6), 3470-3474.

Christiansen, T.L.; Dahl, K.V.; Somers, M.A.J.

New Stainless Steel Alloys for Low Temperature Surface Hardening? *B H M*, (2015), 160(9), 406-412.

Fernandes, F.A.P.; Christiansen, T.L.; Winther, G.; Somers, M.A.J.

On the determination of stress profiles in expanded austenite by grazing incidence X-ray diffraction and successive layer removal. *Acta Materialia*, (2015), 94, 271-280.

Clausen, A.; Aage, N.; Sigmund, O.

Topology optimization of coated structures and material interface problems. *Computer Methods in Applied Mechanics and Engineering*, (2015), 290, 524-541.

Clausen, A.; Wang, F.; Jensen, J.S.; Sigmund, O.; Lewis, J.A.
Topology Optimized Architectures with Programmable Poisson's Ratio over Large Deformations. *Advanced Materials*, (2015), 27(37), 5523-5527.

Clausen, J. C.; Damkilde, L.; Andersen, L. V.
Robust and efficient handling of yield surface discontinuities in elasto-plastic finite element calculations. *Engineering Computations*, (2015), 32(6), 1722-1752.

Gnaur, D.; Clausen, J.
Teaching Smart with Podcasts. *International Journal of Engineering Education*, (2015), 31(2), 486-494.

Sørensen, E. S.; Clausen, J. C.; Damkilde, L.
Finite element implementation of the Hoek-Brown material model with general strain softening behavior. *International Journal of Rock Mechanics and Mining Sciences*, (2015), 78(September), 163-174.

Clausen, L.R.
Maximizing biofuel production in a thermochemical biorefinery by adding electrolytic hydrogen and by integrating torrefaction with entrained flow gasification. *Energy*, (2015), 85, 94-101.

Comminal, R.; Spangenberg, J.; Hattel, J.H.
Cellwise conservative unsplit advection for the volume of fluid method. *Journal of Computational Physics*, (2015), 283, 582–608.

Comminal, R.; Spangenberg, J.; Hattel, J.H.
Robust simulations of viscoelastic flows at high Weissenberg numbers with the streamfunction/log-conformation formulation. *Journal of Non-Newtonian Fluid Mechanics*, (2015), 223, 37-61.

Conseil, H.; Verdingovas, V.; Jellesen, M.S.; Ambat, R.
Decomposition of no-clean solder flux systems and their effects on the corrosion reliability of electronics. *Journal of Materials Science: Materials in Electronics*, (2015), 23-32.

Costache, A.; Glejbøl, K.; Sivebæk, I.M.; Berggreen, C.
Friction Joint Between Basalt-Reinforced Composite and Aluminum. *Tribology Letters*, (2015), 59(2), 30.

Couturier, P.; Krenk, S.; Høgsberg, J.B.
Beam section stiffness properties using a single layer of 3D solid elements. *Computers and Structures*, (2015), 156, 122-133.

D

Da Fonseca, C.A.L.L.; Weber, H.I.; Fleischer, P.F.; Santos, I.
Analyzing the use of pins in safety bearings. *Brazilian Society of Mechanical Sciences and Engineering. Journal*, (2015), 37(4), 1425-1434.

Jonsson, T.; Slomian, A.; Lomholt, T.N.; Kiamehr, S.; Dahl, K.V.
Microstructural investigations of pure nickel exposed to KCl induced high temperature corrosion. *Materials at High Temperatures*, (2015), 32(1-2), 44-49.

Kiamehr, S.; Dahl, K.V.; Montgomery, M.; Somers, M.A.J.
KCl-induced high temperature corrosion of selected commercial alloys. Part I: chromia-formers. *Materials and Corrosion*, (2015), 66(12), 1414-1429.

Kiamehr, S.; Dahl, K.V.; Montgomery, M.; Somers, M.A.J.
KCl-induced high temperature corrosion of selected commercial alloys. Part II: alumina and silica-formers. *Materials and Corrosion*, (2015), 67(1), 26-38.

Dollerup, N.; Jepsen, M. S.; Damkilde, L.
Optimal material Layout – Applied on Reinforced Concrete Slabs. Institution of Civil Engineers, *Proceedings, Engineering and Computational Mechanics*, (2015), 168(84), 144-154.

Daviðsdóttir, S.; Petit, J.-P.; Shabadi, R.; Canulescu, S.; Almtoft, K.P.; Dirscherl, D.; Andersen, I.H.; Ambat, R.
Effect of interfacial oxide thickness on the photocatalytic activity of magnetron-sputtered TiO₂ coatings on aluminum substrate: Photocatalytic activity of magnetron sputtered TiO₂ coatings on Al substrate. *Physica Status Solidi. A: Applications and Materials Science (Online)*, (2015), 212 (12), 2805-2815.

Davidson, C.; Liu, S.; Mo, X.; Holm, P. E.; Trap, S.; Rosbjerg, D.; Bauer-Gottwein, P.
Hydroeconomic optimization of reservoir management under downstream water quality constraints. *J. Hydrol.*; (2015), 529(3), 1679-1689.

Angel, J.; De Chiffre, L.; Kruth, J. P.; Tan, Y.; Dewulf, W.
Performance evaluation of CT measurements made on step gauges using statistical methodologies. *C I R P - Journal of Manufacturing Science and Technology*, (2015), 11, 68-72.

Gameros, A.; De Chiffre, L.; Siller, H.R.; Hiller, J.; Genta, G.
A reverse engineering methodology for nickel alloy turbine blades with internal features. *C I R P - Journal of Manufacturing Science and Technology*. (2015), 9, 116-124.

Godi, A.; Grønbæk, J.; De Chiffre, L.
Off-line testing of multifunctional surfaces for metal forming applications. *C I R P - Journal of Manufacturing Science and Technology*, (2015), 11, 28-35.

Debrabant, K.; González-Pinto, S.; Hernández-Abreu, D.
On the global error of special Runge-Kutta methods applied to linear Differential Algebraic Equations. *Applied Mathematics Letters*, (2015), 39, 53-59.

Debrabant, K.; Lang, J.
On Asymptotic Global Error Estimation and Control of Finite Difference Solutions for Semilinear Parabolic Equations. *Computer Methods in Applied Mechanics and Engineering*, (2015), 288, 110-126.

Debrabant, K.; Rößler, A.

On the acceleration of the multilevel Monte Carlo method. *Journal of Applied Probability*, (2015), 52(2), 307-322.

Della Morte, M.; Blossier, B.; Bernardoni, F.; Bulava, F.; Fritzscht, P.; Garron, N.; Gerardin, A.; Heitger, J.; von Hippel, G.; Simma H.

B-meson spectroscopy in HQET at order $1/m$. *Physical Review D (Particles, Fields, Gravitation and Cosmology)*, (2015), 92(5).

Della Morte, M.; Bulava, J.; Heitger, J. Wittemeier, C.

Non-perturbative improvement of the axial current in $N_f = 3$ lattice QCD with Wilson fermions and tree-level improved gauge action. *Nuclear Physics, Section B*, (2015), 896, 555-568.

Della Morte, M.; Stefano, C.; Wittig, H.; Djukanovic, D.; von Hippel, G.; Hua J.; Jaeger, B.; Knippschild, B.; Meyer, H.; Rae, T.

Nucleon electromagnetic form factors in two-flavor QCD. *Physical Review D (Particles, Fields, Gravitation and Cosmology)*, (2015), 92(5).

Din, R.U.; Bordo, K.; Jellesen, M.S.; Ambat, R.

Accelerated growth of oxide film on aluminium alloys under steam: Part II: Effects of alloy chemistry and steam vapour pressure on corrosion and adhesion performance. *Surface and Coatings Technology*, (2015), 276, 106-115.

Din, R.U.; Jellesen, M.S.; Ambat, R.

Performance Comparison of Steam-Based and Chromate Conversion Coatings on Aluminum Alloy 6060. *Corrosion*, (2015), 71(7), 839-853.

Din, R.U.; Jellesen, M.S.; Ambat, R.

Steam assisted oxide growth on aluminium alloys using oxidative chemistries: Part II corrosion performance. *Applied Surface Science*, (2015), 355, 716-725.

Din, R.U.; Jellesen, M.S.; Ambat, R.

Role of acidic chemistries in steam treatment of aluminium alloys. *Corrosion Science*, (2015), 99, 258-271.

Din, R.U.; Piotrowska, K.; Gudla, V.C.; Jellesen, M.S.; Ambat, R.

Steam assisted oxide growth on aluminium alloys using oxidative chemistries: Part I Microstructural investigation. *Applied Surface Science*, (2015), 355, 820-831.

Din, R.U.; Gudla, V.C.; Jellesen, M.S.; Ambat, R.

Accelerated growth of oxide film on aluminium alloys under steam: Part I: Effects of alloy chemistry and steam vapour pressure on microstructure. *Surface and Coatings Technology*, (2015), 276, 77-88.

Din, R.U.; Tabrizian, N.; Jellesen, M.S.; Ambat, R.

Aluminium Alloy AA6060 surface treatment with high temperature steam containing chemical additives. *Materials Today*, (2015), Proceedings 2, 5063-5070.

Din, R.U.; Valgarðsson, S.; Jellesen, M.S.; Eriksen, H.J.; Praastrup, U.; Møller, P.; Ambat, R.
Corrosion issues of powder coated AA6060 aluminium profiles. *Engineering Failure Analysis*, (2015), 47, 16–24.

Dou, S.; Jensen, J.S.

Optimization of hardening/softening behavior of plane frame structures using nonlinear normal modes. *Computers & Structures*, (2015), 164, 63-74.

Dou, S.; Strachan, B.S.; Shaw, S.W.; Jensen, J.S.

Structural optimization for nonlinear dynamic response. *Royal Society of London. Philosophical Transactions A. Mathematical, Physical and Engineering Sciences*, (2015). 373, 2051.

E

Eder, M.A.; Bitsche, R.

A qualitative analytical investigation of geometrically nonlinear effects in wind turbine blade cross sections. *Thin-Walled Structures*, (2015), 93, 1-9.

Eder, M.A.; Bitsche, R.; Belloni, F.

Effects of geometric non-linearity on energy release rates in a realistic wind turbine blade cross section. *Composite Structures*, (2015), 132, 1075–1084.

Alvarado, J.S.; Eder, M.A.; Tesauro, A.

A versatile stereo photogrammetry based technique for measuring fracture mode displacements in structures. *Precision Engineering*, (2015), 39, 38-46.

Elmegaard, B.; Ommen, T.S.; Markussen, M.; Iversen, J.

Integration of space heating and hot water supply in low temperature district heating. *Energy and Buildings*, (2015).

El-Naaman, S.A.; Nielsen, K.L.; Niordson, C.F.

On modeling micro-structural evolution using a higher order strain gradient continuum theory. *International Journal of Plasticity*, (2015), 76, 285-298.

Enemark, S.; Santos, I.

Quasi-static characterisation of trained pseudoelastic shape memory alloy wire subjected to cyclic loading: transformation kinetics. *Journal of Intelligent Material Systems and Structures*, (2015), 15.

Enemark, S.; Savi, M.A.; Santos, I.F.

Experimental analyses of dynamical systems involving shape memory alloys. *Smart Structures and Systems*, (2015), 15(6), 1521-1542.

Enemark, S.; Santos, I.F.

Nonlinear dynamic behaviour of a rotor-foundation system coupled through passive magnetic bearings with magnetic anisotropy - Theory and experiment. *Journal of Sound and Vibration*, (2015), 363, 407-427.

Christensen, M. L. C.; Eskildsen, K. L.; Engsig-Karup, A. P.; Wakefield, M.
Nonlinear Multigrid for Reservoir Simulation. S P E Journal, (2015), 11.

Henneberg, M.; Eriksen, R. L.; Jørgensen, B.; Fich, J.
A quasi-stationary approach to particle concentration and distribution in gear oil for wear mode estimation. Wear, (2015), 324. 140-146.

F

Feng, J.; Shen, W.Z.

Solving the wind farm layout optimization problem using random search algorithm. Renewable Energy, (2015), 78, 182-192.

Feng, J.; Shen, W.Z.

Modelling Wind for Wind Farm Layout Optimization Using Joint Distribution of Wind Speed and Wind Direction. Energies, (2015), 8(4), 3075-3092.

G

Gallego Calderon, J.F.; Natarajan, A.

Assessment of wind turbine drive-train fatigue loads under torsional excitation. Engineering Structures, (2015), 103, 189-202.

Goegebeur, Y.; Guillou, A.; Stupfler, G.

Robust conditional Weibull-type estimation. Institute of Statistical Mathematics, Annals, (2015), 67(3), 479-514.

Goegebeur, Y.; Guillou, A.; Stupfler, G.

Uniform asymptotic properties of a nonparametric regression estimator of conditional tails. Annales de l'Institut Henri Poincaré D, (2015), 51(3), 1190-1213.

Cassotta, S.; Hossain, K.; Ren, J.; Goodsite, M. E.

Climate Change and China as a Global Emerging Regulatory Sea Power in the Arctic Ocean: Is China a Threat for Arctic Ocean Security? Beijing Law Review, (2015), 6(3), 199-207.

Ren, J.; Goodsite, M. E.; Sovacool, B. K.

Climate change: Climate justice more vital than democracy. Nature, (2015), 526, 323.

Ren, J.; Tan, S.; Goodsite, M. E.; Sovacool, B. K.; Dong, L.

Sustainability, Shale Gas, and Energy Transition in China: Assessing Barriers and Prioritizing Strategic Measures. Energy, (2015), 84, 551-562.

Ren, J.; Dong, L.; Sun, L.; Goodsite, M. E.; Dong, L.; Luo, X.; Sovacool, B. K.

“Supply Push” or “Demand Pull”? Strategic Recommendations for the Responsible Development of Biofuel in China, Renewable & Sustainable Energy Reviews, (2015), 52, 382-392.

Ren, J.; Dong, L.; Sun, L.; Goodsite, M. E.; Tan, S.; Dong, L.
Life cycle cost optimization of biofuel supply chains under uncertainties based on interval linear programming. *Bioresource Technology*, (2015), 187, 6-13.

Ren, J.; Tan, S.; Yang, L.; Goodsite, M. E.; Pang, C.; Dong, L.
Optimization of energy sustainability index for biodiesel supply network design. *Energy Conversion and Management*, (2015), 92, 312-321.

Sovacool, B. K.; Linnér, B. O.; Goodsite, M. E.
The political economy of climate adaptation. *Nature climate change*, (2015), 5(7), 616-618.

Gravesen, J.
The Metric of Colour Space. *Graphical Models*, (2015), 82, 77-86.

Herp, J.; Poulsen, U. V.; Greiner, M.
Wind farm power optimization including flow variability. *Renewable Energy*, (2015), 81, 173-181.

Rodriguez, R. A.; Becker, S.; Greiner, M.
Cost-optimal design of a simplified, highly renewable pan-European electricity system. *Energy*, (2015), 83, 658-668.

Rodriguez, R. A.; Dahl, M.; Becker, S.; Greiner, M.
Localized vs. synchronized exports across a highly renewable pan-European transmission network. *Energy, Sustainability and Society*, (2015), 5.

Gudla, V.C.; Jensen, F.; Simar, A.; Shabadi, R.; Ambat, R.
Friction stir processed Al-TiO₂ surface composites: Anodising behaviour and optical appearance. *Applied Surface Science*, (2015), 324, 554-562.

Gudla, V.C.; Bordo, K.; Jensen, F.; Canulescu, S.; Yuksel, S.; Simar, A.; Ambat, R.
High Frequency Anodising of Aluminium-TiO₂ Surface Composites: Anodising Behaviour and Optical Appearance. *Surface and Coatings Technology*, (2015), 277, 67-73.

Gudla, V.C.; Jensen, F.; Bordo, K.; Simar, A.; Ambat, R.
Effect of High Frequency Pulsing on the Interfacial Structure of Anodised Aluminium-TiO₂. *Journal of the Electrochemical Society*, (2015), 162(7), C303-C310.

Gudla, V.C.; Johansen, V.E.; Ambat, R.; Canulescu, S.; Schou, J.
Simulation of reflectance from white-anodised aluminium surfaces using polyurethane-TiO₂ composite coatings. *Journal of Materials Science*, (2015), 50(13), 4565-4575.

Gudla, V.C.; Rechendorff, K.; Balogh, Z.I.; Kasama, T.; Ambat, R.
In-situ TEM investigation of microstructural evolution in magnetron sputtered Al-Zr and Al-Zr-Si coatings during heat treatment. *Materials & Design*, (2015), 89, 1071-1078.

H

Zhang, Z.; Hansen, C.T.; Andersen, M.A.E.

Teaching Power Electronics with a Design-Oriented and Project-Based Learning Method at the Technical University of Denmark. *I E E E Transactions on Education*, (2015).

Menotti, S.; Hansen, H.N.; Bissacco, G.; Guerrier, P.; Tang, P.T.

Comparison of two setups for induction heating in injection molding. *International Journal of Advanced Manufacturing Technology*, (2015), 81(9-12), 1863-1870.

Müller, P.; Hiller, J.; Dai, Y.; Andreasen, J.L.; Hansen, H.N.; De Chiffre, L.

Quantitative analysis of scaling error compensation methods in dimensional X-ray computed tomography. *C I R P - Journal of Manufacturing Science and Technology*, (2015), 10, 68-76.

Machefaux, E.; Larsen, G.C.; Troldborg, N.; Hansen, K.S.; Angelou, N.; Mikkelsen, T.; Mann, J. Investigation of wake interaction using full-scale lidar measurements and large eddy simulation: Investigation of wake interaction using full-scale lidar measurements and LES. *Wind Energy*, (2015).

Machefaux, E.; Larsen, G.C.; Koblitz, T.; Troldborg, N.; Kelly, M.C.; Chougule, A.S.; Hansen, K.S.; Rodrigo, J.S.

An experimental and numerical study of the atmospheric stability impact on wind turbine wakes. *Wind Energy*, (2015).

Hansen, M.O.L.; Velte, C.M.; Øye, S.; Hansen, R.; Sørensen, N.N.; Madsen, J.; Mikkelsen, R.

Aerodynamically shaped vortex generators. *Wind Energy*, (2015), 19(3), 563–567.

Wang, K.; Hansen, M.O.L.; Moan, T.

Model improvements for evaluating the effect of tower tilting on the aerodynamics of a vertical axis wind turbine. *Wind Energy*, (2015), 18(1), 91-110.

Kragh, K.A.; Hansen, M.H.

Potential of power gain with improved yaw alignment. *Wind Energy*, (20115), 18(6), 979-989.

Tibaldi, C.; Henriksen, L.C.; Hansen, M.H.; Bak, C.

Wind turbine fatigue damage evaluation based on a linear model and a spectral method. *Wind Energy*, (2015).

Romanov, M.; Dahl, A. B.; Dong, Y.; Hansen, P. C.

Simultaneous tomographic reconstruction and segmentation with class priors. *Inverse Problems in Science and Engineering*, (2015).

Haselbach, P.U.; Bitsche, R.; Branner, K.

The effect of delaminations on local buckling in wind turbine blades. *Renewable Energy*, (2015), 85, 295-305.

Baran, I.; Hattel, J.H.; Akkerman, R.

Investigation of process induced warpage for pultrusion of a rectangular hollow profile. *Composites Part B: Engineering*, (2015), 68, 365-374.

Guerrier, P.; Nielsen, K.K.; Hattel, J.H.
Temperature Dependence and Magnetic Properties of Injection Molding Tool Materials Used in Induction Heating. *I E E E Transactions on Magnetics*, (2015), 51(9).

Sarhadi, A.; Hattel, J.H.; Hansen, H.N.
Three-Dimensional Modeling of Glass Lens Molding. *International Journal of Applied Glass Science*, (2015), 6(2), 182-195.

V, H.; Henriksen, C.; Fernandez, B.
Theoretical Study of the Pyridine-Helium van der Waals Complexes. *Journal of Physical Chemistry Part A: Molecules, Spectroscopy, Kinetics, Environment and General Theory*, (2015), 199(4), 10999-11006.

Henrichsen, S.R.; Lindgaard, E.; Lund, E.
Free material stiffness design of laminated composite structures using commercial fine element analysis codes: A comparison to research code. *Structural and Multidisciplinary Optimization*, (2015), 51(5), 1097-1111.

Henrichsen, S.R.; Lindgaard, E.; Lund, E.
Robust buckling optimization of laminated composite structures using discrete material optimization considering "worst" shape imperfections. *Thin-Walled Structures*, (2015), 94, 624-635.

Kukushkin, M.; Otto, T.; Howard, T.J.
Value-centric business development: descriptive and prescriptive research into five different companies. *Estonian Academy of Sciences. Proceedings*, (2015), 64, 543–557.

Høgh, J.; Waldbjørn, J.; Wittrup-Schmidt, J.; Stang, H.; Berggreen, C.
Quasi-Static Single-Component Hybrid Simulation of a Composite Structure with Multi-Axis Control. *Strain*, (2015), 51, 459-473.

Høgsberg, J.B.; Krenk
Balanced calibration of resonant piezoelectric RL shunts with quasi-static background flexibility correction. *Journal of Sound and Vibration*, (2015), 341, 16-30.

I

Ibsen, L. B.; Barari, A.; Larsen, K. A.
Effect of embedment on the plastic behaviour of Bucket Foundations. *Journal of Waterway, Port, Coastal, and Ocean Engineering*, (2015), 141(6).

Barari, A.; Bayat, M.; Meysam, S.; Ibsen, L. B.; Andersen, L. V.
Transient Analysis of Monopile Foundations Partially Embedded in Liquefied Soil. *Geomechanics and Engineering*, (2015), 8(2), 257-282.

Firouzianbandpey, S.; Griffiths, D. V.; Ibsen, L. B.; Andersen, L. V.
Corrigendum: Spatial Correlation Length of Normalized cone data in sand: Case study in the North of Denmark. *Canadian Geotechnical Journal*, (2015), 52(8), 1195-1197.

Firouziyanbandpey, S.; Ibsen, L. B.; Griffiths, D. V.; Vahdatirad, M.; Andersen, L. V.; Sørensen, J. D.

Effect of spatial correlation length on the interpretation of normalized CPT data using a Kriging approach. *Journal of Geotechnical and Geoenvironmental Engineering*, (2015), 141(2).

Foglia, A.; Gottardi, G.; Govoni, L.; Ibsen, L. B.

Modelling the drained response of bucket foundations for offshore wind turbines under general monotonic and cyclic loading. *Applied Ocean Research*, (2015), 52, 80-91.

Grønbech, G. L.; Ibsen, L. B.; Nielsen, B. N.

Preconsolidation of Søvind Marl – a highly fissured Eocene clay. *Geotechnical Testing Journal*, (2015), 38(4), 501-510.

Grønbech, G. L.; Nielsen, B. N.; Ibsen, L. B.; Stockmarr, P.

Geotechnical properties of Søvind Marl: a plastic Eocene clay. *Canadian Geotechnical Journal*, (2015), 52(4), 469-478.

Sørensen, S. P. H.; Ibsen, L. B.; Fogila, A.

Testing Laterally Loaded Rigid Piles with Applied Overburden Pressure. *International Journal of Offshore and Polar Engineering*, (2015), 25(2), 120-126.

Taghavi Ghalesari, A.; Barari, A.; Fardad Amini, P.; Ibsen, L. B.

Development of optimum design from static response of pile-raft interaction. *Journal of Marine Science and Technology*, (2015), 20(2), 331-343.

Islam, A.; Hansen, H.N.; Giannekas, N.

Quality investigation of miniaturized Moulded Interconnect Devices (MIDs) for hearing aid applications. *C I R P Annals*, (2015), 641), 539-544.

J

Jakobsen, J.; Skordos, A.; James, S.; Correia, R.; Jensen, M.

In-situ Curing Strain Monitoring of a Flat Plate Residual Stress Specimen using a Chopped Stand Mat Glass/Epoxy Composite as Test Material. *Applied Composite Materials*, (2015), 22(6), 805-822.

Jensen, M.; Jakobsen, J.

Configurational Entropy in Thermoset Polymers. *Journal of Physical Chemistry Part B: Condensed Matter, Materials, Surfaces, Interfaces & Biophysical*, (2015), 119(17), 5645-5649.

Bregnbak, D.; Johansen, J.D.; Jellesen, M.S.; Zachariae, C.; Menné, T.; Thyssen, J.P.

Chromium allergy and dermatitis: prevalence and main findings. *Contact Dermatitis*, (2015), 74(5), 261-280.

Bregnbak, D.; Johansen, J.D.; Jellesen, M.S.; Zachariae, C.; Menné, T.; Thyssen, J.P.

Chromium(VI) release from leather and metals can be detected with a diphenylcarbazide spot test. *Contact Dermatitis*, (2015), 73(5), 281-288.

- Jensen, B.; Christensen, E.D.; Sumer, B.M.; Vistisen, M.
Flow and Turbulence at Rubble-Mound Breakwater Armor Layers under Solitary Wave. *Journal of Waterway, Port, Coastal, and Ocean Engineering*, (2015), 141(6).
- Ju, C.; Xue, F.; Huang, F.; Chen, L.-Q.; Lu, X.; Zhou, J.; Jensen, H. M.
Anomalous crack arrays in anisotropic-strained manganite on scandate substrates. *Applied Physics Letters*, (2015), 106.
- Madsen, N. D.; Steffensen, S.; Jensen, H. M.; Bøttiger, J.
Toughness measurements of thin films based on circumferential crack induced at conical indentation. *International Journal of Fracture*, (2015), 193(2), 117-130.
- Steffensen, S.; Jensen, H. M.
Circular channel cracks during indentation in thin films on ductile substrates. *Computational Materials Science*, (2015), 98, 263-270.
- Wind, J. L.; Waas, A. M.; Jensen, H. M.
Initiation of failure at notches in unidirectional fiber composites. *Composite Structure*, (2015), 122, 51-56.
- Jensen, J.J.
Conditional Stochastic Processes Applied to Wave Load Predictions. *Journal of Ship Research*, (2015), 59(1), 1-10.
- Jensen, J.J.
Fatigue damage estimation in non-linear systems using a combination of Monte Carlo simulation and the First Order Reliability Method. *Marine Structures*, (2015), 44, 203-210.
- Jensen, J.J.; Andersen, I.M.V.; Seng, S.
Stochastic procedures for extreme wave induced responses in flexible ships. *International Journal of Naval Architecture and Ocean Engineering*, (2015), 6(4), 1148-1159.
- Seng, S., Jensen, J.J.; Malenica, S.
Global hydroelastic model for springing and whipping based on a free-surface CFD code (OpenFOAM). *International Journal of Naval Architecture and Ocean Engineering*, (2015), 6(4), 1024-1040.
- Jensen, J.K.; Markussen, W.B.; Reinholdt, L.; Elmegaard, B.
Exergoeconomic optimization of an ammonia–water hybrid absorption–compression heat pump for heat supply in a spraydrying facility. *International Journal of Energy and Environmental Engineering*, (2015), 6, 195-211.
- Jensen, J.K.; Markussen, W.B.; Reinholdt, L.; Elmegaard, B.
On the development of high temperature ammonia-water hybrid absorption-compression heat pumps. *International Journal of Refrigeration*, (2015), 58, 79-89.
- Jensen, J.K.; Ommen, T.S.; Markussen, W.B.; Reinholdt, L.; Elmegaard, B.
Technical and economic working domains of industrial heat pumps: Part 2 - ammonia-water hybrid absorption-compression heat pumps. *International Journal of Refrigeration*, (2015), 55, 183-200.

- Mazrooei Sebdani, M.; Mauro, J.C.; Jensen, L.R.; Smedskjær, M.M.
Structure-property relations in calcium aluminate glasses containing different divalent cations and SiO₂. *Journal of Non-Crystalline Solids*, (2015), 427, 160-165.
- Østergaard, M.; Youngman, R.E.; Svenson, M.N.; Rzoska, S.J.; Bockowski, M.; Jensen, L.R.; Smedskjær, M.M.
Temperature-dependent densification of sodium borosilicate glass. *R S C Advances*, (2015), 5(96), 78845-78851.
- Jensen, M. M.; De Weerd, K.; Johannesson, B.; Geiker, M. R.
Use of multi-species reactive transport model to simulate chloride ingress in mortar exposed to NaCl solution or sea-water. *Computational Materials Science*, (2015), 105, 75-82.
- Wu, M.; Fridh, K.; Johannesson, B.; Geiker, M. R.
Influence of frost damage and sample preconditioning on the porosity characterization of cement based materials using low temperature calorimetry. *Thermochimica Acta.*, (2015), 607, 30-38.
- Glaas, E.; Gammelgaard Ballantyne, A.; Neset, T. S.; Linnér, B. O.; Navarra, C.; Johansson, J.; Opach, T.; Rød, J. K.; Goodsite, M. E.
Facilitating climate change adaption through communication: Insights from the development of a visualization tool. *Energy Research & Social Science*, (2015), 10, 57-61.
- Boiroux, D.; Bátor, V.; Hagdrup, M.; Wendt, S. L.; Schmidt, S.; Nørgaard, K.; Poulsen, N. K.; Madsen, H.; Jørgensen, J. B.
Bi-hormonal Closed-loop Control of Blood Glucose for People With Type 1 Diabetes – the Diacon Project. *Diabetes Technology & Therapeutics*, (2015), 17(S1), A107-S108.
- Boiroux, D.; Aradóttir, T. B.; Hagdrup, M.; Poulsen, N. K.; Madsen, H.; Jørgensen, J. B.
A Bolus Calculator Based on Continuous-Discrete Unscented Kalman Filtering for Type 1 Diabetics. *I F A C Workshop Series*, (2015), 48(20), 159-164.
- Boiroux, D.; Bátor, V.; Hagdrup, M.; Tárník, M.; Murgaš, J.; Schmidt, S.; Nørgaard, K.; Poulsen, N. K.; Madsen, H.; Jørgensen, J. B.
Comparison of Prediction Models for a Dual-Hormone Artificial Pancreas. *I F A C Workshop Series*, (2015), 48(20), 7-12.
- Schmidt, S.; Boiroux, D.; Ranjan, A.; Jørgensen, J. B.; Madsen, H.; Nørgaard, K.
An artificial pancreas for automated blood glucose control in patients with Type 1 diabetes. *Therapeutic Delivery*, (2015), 6(5), 211-221.
- Sokoler, L. E.; Frison, G.; Skajaa, A.; Halvgaard, R. F.; Jørgensen, J. B.
A Homogeneous and Self-Dual Interior-Point Linear Programming Algorithm for Economic Model Predictive Control. *I E E E Transactions on Automatic Control*, (2015), 99.
- Sokoler, L. E.; Vinter, P.; Bærentsen, R.; Edlund, K.; Jørgensen, J. B.
Contingency-Constrained Unit Commitment in Meshed Isolated Power Systems. *I E E E Transactions on Power Science*, (2015), 99.

Vulkov, M.; Gros, S.; Frison, G.; Geebelen, K.; Jørgensen, J. B.; Swevers, J.; Diehl, M. Real-time nonlinear MPC and MHE for a large-scale mechatronic application. *Control Engineering Practice*, (2015), 45, 64-78.

Andreassen, M. J.; Jönsson, J.

Joint and column behaviour of slotted cold-formed steel studs. *Steel Construction*, (2015), 8(3), 155-161.

K

Madsen, M. H.; Hansen, P-E.; Zalkovskij, M.; Karamehmedovic, M.; Garnæs, J.

Fast Characterization of Moving Samples with Nano-Textured Surfaces. *Optica*, (2015), 2(4), 301-306.

Kermani, N.A.; Rokni, M.

Heat transfer analysis of liquid piston compressor for hydrogen applications. *International Journal of Hydrogen Energy*, (2015), 40, 11522-11529.

Janakiraman, S.; West, O.; Klit, P.; Jensen, N.S.

Observations of the effect of varying Hoop stress on fatigue failure and the formation of white etching areas in hydrogen infused 100Cr6 steel rings. *International Journal of Fatigue*, (2015), 77, 128-140.

Christiansen, C.K.; Klit, P., Walther, J.H.; Vølund, A.

Cavitation Estimates by Orbit Prediction of a Journal Bearing - Finite Element Modelling and Experimental Studies Cavitation Estimates by Orbit Prediction of a Journal Bearing - Finite Element Modelling and Experimental Studies. *Tribologia*, (2015), 33(1), 28-35.

Delbary, F.; Knudsen, K.

Numreical nonlinear complex geometrical optics algorithm for the 3D Calderón problem. *Inverse Problems and Imaging*, (2014), 8(4), 991-1012.

Garde, H.; Knudsen, K.

Sparsity prior for electrical impedance tomography with partial data. *Inverse Problems in Science and Engineering*, (2015).

Demartino, C.; Koss, H.; Georgakis, C. T.; Riccardelli, F.

Effects of ice acceration on the aerodynamics of bridge cables, *Journal of Wind Engineering and Industrial Aerodynamics*, (2015), 138, 98-119.

Krenk, S.

Conservative fourth-order time integration of non-linear dynamic systems. *Computer Methods in Applied Mechanics and Engineering*, (2015), 295, 39-55.

Kristiansen, K. U.

Computation of saddle-type slow manifolds using iterative methods. *S I A M Journal on Applied Dynamical Systems*, 14(2), 1189-1227.

Kristiansen, K. U.

Periodic orbits near a bifurcating slow manifold. *Journal of Differential Equations*, (2015), 259(9), 4561-4614.

Kristiansen, K. U.

Regularizations of two-fold bifurcations in planar piecewise smooth systems using blowup. *S I A M Journal on Applied Dynamical Systems*, (2015), 14(4), 1731-1786.

Kristiansen, K. U.; Hogan, S. J.

On the use of blowup to study regularizations of singularities of piecewise smooth dynamical systems in R^3 . *S I A M Journal on Applied Dynamical Systems*, (2015), 14(1), 382-422.

Kærn, M.R.; Modi, A.; Jensen, J.K.; Haglund, F.

An Assessment of Transport Property Estimation Methods for Ammonia–Water Mixtures and Their Influence on Heat Exchanger Size. *International Journal of Thermophysics*, (2015), 36(7), 1468-1497.

Kærn, M.R.; Modi, A.; Jensen, J.K.; Andreasen, J.G.; Haglund, F.

An assessment of in-tube flow boiling correlations for ammonia-water mixtures and their influence on heat exchanger size. *Applied Thermal Engineering*, (2015), 93, 623-638.

L

Abildgaard, O. H. A.; Kamran, F.; Dahl, A. B.; Skytte, J. L.; Nielsen, F. D.; Thomsen, C. L.; Andersen, P. E.; Larsen, R.; Frisvad, J. R.

Non-Invasives Assessment of Dairy Products Using Spatially Resolved Diffuse Reflectance Spectroscopy. *Applied Spectroscopy*, (2015), 69(9), 1096-1105.

Einarsdottir, H.; Yaroshenko, A.; Velroyen, A.; Bech, M.; Hellbach, K.; Auweter, A.; Yildirim, Ö.; Meinel, F. G.; Oliver Eickelberg, O. X.; Reiser, M.; Larsen, R.; Ersbøll, B. K.; Pfeiffer, F. Computer-aided diagnosis of pulmonary diseases using x-ray darkfield radiography. *Physics in Medicine and Biology*, (2015), 60, 9253-9268.

Glintborg, D.; Christensen, L. L.; Kvorning, T.; Larsen, R.; Højlund, K.; Brixen, K.; Hougaard, D. M.; Handberg, A.; Andersen, M.

Differential effects of strength training and testosterone treatments on soluble CD36 in aging men: Possible relation to changes in body composition. *Scandinavian Journal of Clinical & Laboratory Investigation*, (2015), 75(8), 659-666.

Jølcck, R. I.; Rydhog, J. S.; Christensen, A. N.; Hansen, A. E.; Bruun, L. M.; Schaarup-Jensen, H.; von Wenck, A. S.; Borresen, B.; Kristensen, A. T.; Clausen, M. H.; Kjær, A.; Conradsen, K.; Larsen, R.; Rosenschold, P. M.; Andresen, T. L.

Injectable Colloidal Gold for Use in Intrafractional 2D Image-Guided Radiation Therapy. *Advanced Healthcare Materials*, (2015), 4(6), 856-863.

Larsen, A. B. L.; Hviid, M. S.; Engbo Jørgensen, M.; Larsen, R.; Dahl, A. L.

Vision-based method for tracking meat cuts in slaughterhouses. *Meat Sciences*, (2014), 96, 366-372.

- Skytte, J. L.; Ghita, O.; Whelan, P. F.; Andersen, U.; Moller, F.; Dahl, A. B.; Larsen, R.
Evaluation of Yogurt Microstructure Using Confocal Laser Scanning Microscopy and Image Analysis. *Journal of Food Science*, (2015), 80(6), E1218-E1228.
- Vestergaard, J. S.; Kling, J.; Dahl, A. B.; Hansen, T. W.; Wagner, J. B.; Larsen, R.
Structure Identification in High-Resolution Transmission Electron Microscopic Images: An Example on Graphene. *Microscopy and Microanalysis*, (2014), 20(6), 1772-1781.
- Vestergaard, J. S.; Twomey, E.; Larsen, R.; Summers, K.; Nielsen, R.
Numbers of genes controlling a quantitative trait in a hybrid zone of the aposematic frog *Ranitomeya imitator*. *Royal Society of London. Proceedings B. Biological Sciences*, (2015), 282(1807), 1-10.
- Celebioglu, H. Y.; Guðjónsdóttir, M.; Chronakis, I.S.; Lee, S.
Investigation of the Interaction between Mucins and β -Lactoglobulin under Tribological Stress. *Food Hydrocolloids*, (2015), 54, Part A, 57-65.
- Celebioglu, H. Y.; Guðjónsdóttir, M.; Meier, S.; Duus, J. Ø.; Lee, S.; Chronakis, I. S.
Spectroscopic studies of the interactions between β -lactoglobulin and bovine submaxillary mucin. *Food Hydrocolloids*, (2015), 50, 203-210.
- Madsen, J.B.; Svensson, B.; Abou Hachem, M.; Lee, S.
Proteolytic Degradation of Bovine Submaxillary Mucin (BSM) and Its Impact on Adsorption and Lubrication at a Hydrophobic Surface. *Langmuir*, (2015), 31(30), 8303-8309.
- Mendes, A.C.L.; Nikogeorgos, N.; Lee, S.; Chronakis, I.S.
Nanomechanics of electrospun phospholipid fiber. *Applied Physics Letters*, (2015), 106(22).
- Nikogeorgos, N.; Efler, P.; Lee, S.; Kayitmazer, A.B.
"Bio-glues" to Enhance Slipperiness of Mucins: Improved Lubricity and Wear Resistance of Porcine Gastric Mucin (PGM) Layers Assisted by Mucoadhesion with Chitosan. *Soft Matter*, (2015), 11, 489-498.
- Zappone, B.; Patil, N.J.; Madsen, J.B.; Pakkanen, K.I.; Lee, S.
Molecular structure and Equilibrium forces of bovine submaxillary mucin adsorbed at a solid-liquid interface. *Langmuir*, (2015), 31(15), 4524-4533.
- Legarth, B.N.
Plasticity dependent damage evolution in composites with strain-gradient effects. *International Journal of Solids and Structures*, (2015), 61, 1-10.
- Jakobsen, M. S.; Lemvig, J.
Co-compact Gabor Systems on Locally Compact Abelian Groups. *Journal of Fourier Analysis and Applications*, (2015).
- Jakobsen, M. S.; Lemvig, J.
Density and duality theorems for regular Gabor frames. *Journal of Functional Analysis*, (2015), 270(1), 229-263.

Durai Prabhakaran, R.T.; Pillai, S.; Mrmani, S.C.; Oshkovr, S.A.; Knudsen, H.; Andersen, T.L.; Lilholt, H.

Mechanical characterization and fractography of glass fiber/polyamide (PA6) composites. *Polymer Composites*, (2015), 36(5), 834-853.

Lenau, T.A.; Hesselberg, T.

Dry sanitation concepts with inspiration from nature. *Journal of Water, Sanitation and Hygiene for Development*, (2015), 5(2), 330-335.

Badalló, P.; Trias, D.; Lindgaard, E.

Damage tolerance optimization of composite stringer run-out under tensile load. *Composite Structures*, (2015), 133, 98-104.

Laustsen, S.; Lund, E.; Kühlmeier, L.; Thomsen, O.T.

Interfibre Failure Characterisation of Unidirectional and Triax Glass Fibre Non-Crimp Fabric Reinforced Epoxy Laminates. *Applied Composite Materials*, (2015), 22(1), 51-79.

Lund, M.E.; Andersen, M.S.; de Zee, M.; Rasmussen, J.

Scaling of musculoskeletal models from static and dynamic trials. *International Biomechanics*, (2015), 2(1), 1-11.

Ren, J.; Lützen, M.

Fuzzy Multi-Criteria Decision-Making Method for Technology Selection for Emissions Reduction from Shipping under Uncertainties. *Transportation Research, Part D: Transport & Environment*, (2015), 40, 43-60.

Lythcke-Jørgensen, C.E.; Haglund, F.

Design optimization of a polygeneration plant producing power, heat, and lignocellulosic ethanol. *Energy Conversion and Management*, (2015), 91, 353–366.

M

Corona, A.; Markussen, C.M.; Birkved, M.; Madsen, B.

Comparative Environmental Sustainability Assessment of Bio-Based Fibre Reinforcement Materials for Wind Turbine Blades. *Wind Engineering*, (2015), 39(1), 53-64.

Dominguez, J.C.; Madsen, B.

Development of new biomass-based furan/glass composites manufactured by the double-vacuum-bag technique. *Journal of Composite Materials*, (2015), 49(24), 2993-3003.

Hashemi, F.; Tahir, P.M.; Madsen, B.; Jawaid, M.; Majid, D.L.; Brancheriau, L.; Juliana, A.H. Volumetric composition and shear strength evaluation of pultruded hybrid kenaf/glass fiber composites. *Journal of Composite Materials*, (2015).

Joffe, R.; Madsen, B.; Nättinen, K.; Miettinen, A.

Strength of cellulosic fiber/starch acetate composites with variable fiber and plasticizer content. *Journal of Composite Materials*, (2015), 49(8), 1007-1017.

Liu, M.; Fernando, D.; Daniel, G.; Madsen, B.; Meyer, A.S.; Ale, M.T.; Thygesen, A. Effect of harvest time and field retting duration on the chemical composition, morphology and mechanical properties of hemp fibers. *Industrial Crops and Products*, (2015), 69, 29-39.

Liu, M.; Fernando, D.; Meyer, A.S.; Madsen, B.; Daniel, G.; Thygesen, A. Characterization and biological depectinization of hemp fibers originating from different stem section. *Industrial Crops and Products*, (2015), 76, 880-891.

Miettinen, A.; Ojala, A.; Wikström, L.; Joffe, R.; Madsen, B.; Nättinen, K.; Kataja, M. Non-destructive automatic determination of aspect ratio and cross-sectional properties of fibres. *Composites Part A: Applied Science and Manufacturing*, (2015), 77, 188-194.

Mortensen, U.A.; Madsen, B. Protocol for Quantification of Defects in Natural Fibres for Composites. *Journal of Textiles*, (2015), 9.

Madsen, P.A.; Schäffer, H.A.; Fuhrman, D.R.; Toledo, Y. Uniform asymptotic approximations for transient waves due to an initial disturbance. *Journal of Geophysical Research: Oceans*, (2015).

Madsen, S. P.; Johannsen, S. R.; Jeppesen, B. R.; Nygaard, J. V.; Jensen, P. B.; Chevallier, J.; Julsgaard, B.; Balling, P.; Larsen, A. N. Optimizing Plasmonically Enhanced Upconversion. *Energy Procedia*, (2015), 77, 478-486.

Johannsen, S. R.; Madsen, S. P.; Jeppesen, B. R.; Nygaard, J. V.; Julsgaard, B.; Balling, P.; Larsen, A. N. Up-conversion enhancement in Er³⁺ doped TiO₂ through plasmonic coupling: Experiments and finite-element modeling. *Applied Physics Letters*, (2015), 106.

Manca, M.; Berggreen, C.; Carlsson, L.A. G-control fatigue testing for cyclic crack propagation in composite structures. *Engineering Fracture Mechanics*, (2015), 149, 375-386.

Markvorsen, S. A Finsler geodesic spray paradigm for wildfire spread modelling. *Nonlinear Analysis: Real World Applications*, (2015), 28, 208-228.

Hurtado, A.; Markvorsen, S.; Palmer, V. Estimates of the first Dirichlet eigenvalue from exit time moment spectra. *Mathematische Annalen*, (2015), 1-30.

Marschler, C.; Starke, J.; Sørensen, M. P. Pattern formation in annular systems of repulsive particles. *Physics Letters. Section A: General, Atomic and Solid State Physics*, (2016), 380(1-2), 166-170.

Mazzucco, A.; Rokni, M. Generalized computational model for high-pressure metal hydrides with variable thermal properties. *International Journal of Hydrogen Energy*, (2015), 40(35), 11470-11477.

- Mazzucco, A.; Rothuizen, E.; Jørgensen, J.-E.; Jensen, T.R.; Rokni, M.
Integration of phase change materials in compressed hydrogen gas systems: Modelling and parametric analysis. *International Journal of Hydrogen Energy*, (2015), 41(12), 1060-1073.
- Kjær, L.L.; Høst-Madsen, N.K.H.-M.; Schmidt, J.H.; McAloone, T.C.
Application of Environmental Input-Output Analysis for Corporate and Product Environmental Footprints—Learnings from Three Cases. *Sustainability*, (2015), 7(9) 11438-11461.
- Olsen, S.I.; Nielsen, S.B.; Ejlersen, M.; McAloone, T.C.
Teaching sustainable solutions in engineering. *International Journal of Innovation and Sustainable Development*, (2015), 9(2), 157-167.
- Løvdal, A.L.V.; Andreassen, J.W.; Mikkelsen, L.P.; Agersted, K.; Almdal, K.
Characterization Of Biaxial Strain Of Poly(L-Lactide) Tubes. *Polymer International*, (2015), 65(1), 133-141.
- Sarmast, S.; Segalini, A.; Mikkelsen, R.F.; Ivanell, S.
Comparison of the near-wake between actuator-line simulations and a simplified vortex model of a horizontal-axis wind turbine. *Wind Energy*, (2015), 19(3), 471-481.
- Tused, J.; Engelbrecht, K.; Mikkelsen, L.P.; Pryds, N.
Elastocaloric effect of Ni-Ti wire for application in a cooling device. *Journal of Applied Physics*, (2015), 117(12).
- Tusek, J.; Engelbrecht, K.; Millán-Solsona, R.; Mañosa, L.; Vives, E.; Mikkelsen, L.P.; Pryds, N.
The Elastocaloric Effect: A Way to Cool Efficiently. *Advanced Energy Materials*, (2015), 5(5).
- Thompson, M.K.; Mischkot, M.
Design of Test Parts to Characterize Micro Additive Manufacturing Processes. *Procedia C I R P.*, (2015), 34, 223-228.
- Thompson, M.K.; Stolfi, A.; Mischkot, M.
Process chain modeling and selection in an additive manufacturing context. *C I R P - Journal of Manufacturing Science and Technology*, (2015).
- Mishnaevsky, L.
Nanostructured interfaces for enhancing mechanical properties of composites: Computational micromechanical studies. *Composites Part B: Engineering*, (2015), 68, 75-84.
- Mishnaevsky, L.
Micromechanical modeling of nanocrystalline and ultrafine grained metals: A short overview. *Computational Materials Science*, (2015), 96, 365-373.
- Dai, G.; Mishnaevsky, L.
Carbon nanotube reinforced hybrid composites: Computational modeling of environmental fatigue and usability for wind blades. *Composites Part B: Engineering*, (2015), 78, 349-360.
- Loginov, P.; Mishnaevsky, L.; Levashov, E.; Petrzhik, M.
Diamond and cBN hybrid and nanomodified cutting tools with enhanced performance: Development, testing and modelling. *Materials & Design*, (2015), 88, 310-319.

Sidorenko, D.; Mishnaevsky, L.; Levashov, E.; Loginov, P.; Petrzhik, M.
Carbon nanotube reinforced metal binder for diamond cutting tools. *Materials & Design*, (2015), 83, 536-544.

Modi, A.; Andreasen, J.G.; Kærn, M.R.; Haglund, F.
Part-load performance of a high temperature Kalina cycle. *Energy Conversion and Management*, (2015), 105, 453-461.

Nerini, F.F.; Valentini, F.; Modi, A.; Upadhyay, G.; Abeyssekera, M.; Salehin, S.; Appleyard, E.
The Energy and Water Emergency Module; A containerized solution for meeting the energy and water needs in protracted displacement situations. *Energy Conversion and Management*, (2015), 93, 205–214.

Montgomery, M.; Vendelbo Nielsen, L.; Berggreen Petersen, M.
Assessment of corrosion in the flue gas cleaning system using on-line monitoring. *VGB PowerTech*, (2015), 10, 77-83.

Parslov, J.F.; Mortensen, N.H.
Interface definitions in literature: A reality check. *Concurrent Engineering: Research and Applications*, (2015), 23(3), 183-198.

Harthøj, A.; Alimadadi, H.; Holt, T.; Møller, P.
Electrical Resistance Measurements and Microstructural Characterization of the Anode/Interconnect Contact in Simulated Anode-Side SOFC Conditions. *Electrochemical Society Journal*, (2015), 162(4), 387-396.

Harthøj, A.; Holt, T.; Møller, P.
Oxidation behaviour and electrical properties of cobalt/cerium oxide composite coatings for solid oxide fuel cell interconnects. *Journal of Power Sources*, (2015), 281, 227-237.

Møller-Andersen, J.; Ögren, M.
Perbutative Semiclassical Trace Formulae for Harmonic Oscillators. *Reports on Mathematical Physics*, (2015), 75(3), 359-382.

N

Abdallah, I.; Natarajan, A.; Sørensen, J.D.
Impact of uncertainty in airfoil characteristics on wind turbine extreme loads. *Renewable Energy*, (2015), 75, 283-300.

Koukoura, C.; Natarajan, A.; Vesth, A.
Identification of support structure damping of a full scale offshore wind turbine in normal operation. *Renewable Energy*, (2015), 81, 882-895.

Needleman, A.; Tvergaard, V.; Van der Giessen, E.
Indentation of elastically soft and plastically compressible solids. *Acta Mechanica Sinica*, (2015), 31(4), 473-480.

- Nguyen, T.-V.; Tock, L.; Breuhaus, P.; Maréchal, F.; Elmegaard, B.
CO₂-mitigation options for the offshore oil and gas sector. *Applied Energy*, (2015), 161, 673–694.
- Nguyen, T.-V.; Tock, L.; Breuhaus, P.; Marechal, F.; Elmegaard, B.
Thermo-Economic Modelling and Process Integration of CO₂-Mitigation Options on Oil and Gas Platforms. *Chemical Engineering Transactions*, (2015), 39, 1081-1086.
- Sagüés Tanco, J.; Nielsen, C.V.; Chergui, A.; Zhang, W.; Bay, N.O.
Weld nugget formation in resistance spot welding of new lightweight sandwich material. *International Journal of Advanced Manufacturing Technology*, (2015), 80(5), 1137-1147.
- Nielsen, K.L.
Rolling induced size effects in elastic–viscoplastic sheet metals. *European Journal of Mechanics A – Solids*, (2015), 53, 259-267.
- Nielsen, K.L.; Niordson, C.F.; Hutchinson, J.W.
Rolling at small scales. *Journal of Manufacturing Science and Engineering*, (2015), 138(4).
- Nielsen, P.S.; Ormstrup, C.A.; Hartz, B.A.K.; Nielsen, M.S.; Bay, N.O.
Simulative Winding of Roll Formed Profile in Carcass Production for Flexible Pipes. *Key Engineering Materials*, (2015), 639, 163-170.
- Nielsen, S.R.K.; Zhang, Z.; Kramer, M. M.; Olsen, J.
Stability analysis of the Gyroscopic Power Take-Off wave energy point absorber. *Journal of Sound and Vibration*, (2015), 355(October), 418-533.
- Chougule, P.; Rosendahl, L.; Sørensen, S.R.K.
Experimental study of the effect of a slat angle on double-element airfoil and application in vertical axis wind turbine. *Ships and Offshore Structures*, (2015), 10(2), 176-182.
- Zhang, Z.; Basu, B.; Nielsen, S.R.K.
Tuned liquid dampers for mitigation of edgewise vibrations in rotating wind turbine blades. *Structural Control and Health Monitoring*, (2015), 22(3), 500-517.
- Zhang, Z.; Nielsen, S.R.K.; Basu, B.; Li, J.
Nonlinear modeling of tunes liquid dampers (TLDs) in rotating wind turbine blades for damping edgewise vibrations. *Journal of Fluids and Structures*, (2015), 59(November), 252-269.
- Nielsen, U.D.; Iseki, T.
Study on Short-term Variability of Ship Responses in Waves. *Nihon Kokai Gakkai Ronbunshu*, (2015), 132, 51-57.
- Hirdaris, S.E.; Bai, W.; Dessi, D.; Ergin, A., Gu, X.; Hermundstad, O.A.; Huijsmans, R.; Iijima, K.; Nielsen, U.D.; Parunov, J.; Fonseca, N.; Papanikolaou, A.; Argyriadis, K.; Incecik, A.
Loads for use in the design of ships and offshore structures. *Ocean Engineering*, (2015), 78, 131-174.

Montazeri, N.; Nielsen, U.D.; Jensen, J.J.

Estimation of wind sea and swell using shipboard measurements – A refined parametric modelling approach. *Applied Ocean Research*, (2015), 54, 73-86.

Lauritsen, S. H.; Bertelsen, L. B.; Daugård, P.; Laustsen, C.; Nielsen, N.; Nygaard, J. V.; Stødkilde-Jensen, H.

Bioreactor for quantification of cell metabolism by MR-hyperpolarization. *Biomedical Physics & Engineering Express*, (2015), 1(4).

Li, Y.; Gregersen, H. V.; Nygaard, J. V.; Cheng, W.; Yu, Y.; Huang, Y.; Dong, M.; Besenbacher, F.; Chen, M.

Ultraporous nanofeatures PCL-PEO microfibrinous scaffolds enhance cell infiltration, colonization and myofibroelastic differentiation. *Nanoscale*, (2015), 7(36), 14989-14995.

Nørtoft, P.; Gravesen, J.

Isogeometric analysis of sound propagation through laminar flow in 2-dimensional ducts. *Computer Methods in Applied Mechanics and Engineering*, (2015), 284, 1098-1119.

O

Okoro, S.C.; Montgomery, M.; Jappe Frandsen, F.; Pantleon, K.

High temperature corrosion during biomass firing: improved understanding by depth resolved characterisation of corrosion products. *Materials at High Temperatures*, (2015), 32(1-2), 92-101.

Okoro, S.C.; Montgomery, M.; Jappe Frandsen, F.; Pantleon, K.

Effect of Water Vapor on High-Temperature Corrosion under Conditions Mimicking Biomass Firing. *Energy & Fuels*, (2015).

Okulov, V.

Testing of Rotor Vortex Theories Using Betz Optimization. *Doklady Physics*, (2015), 59(1), 16-20.

Okulov, V.; Mikkelsen, R.F.; Litvinov, I.V.; Naumov, I.V.

Efficiency of operation of wind turbine rotors optimized by the Glauert and Betz methods. *Technical Physics*, (2015), 60(11), 1632-1636.

Okulov, V.L.; Sørensen, J.N.; Wood, D.H.

The rotor theories by Professor Joukowsky: Vortex theories. *Progress in Aerospace Sciences*, (2015), 73, 19-46.

Naumov, I.V.; Okulov, V.; Mikkelsen, R.F.

Stagnation zone formation on the axis of a closed vortex flow. *Thermophysics and Aeromechanics*, (2015), 21(6), 767-770.

Olesen, C.G.; Larsen, B.H.; Andresen, E.L.; deZee, M.

Development of a grinding-specific performance test set-up. *European Journal of Sport Science*, (2015), 15(3), 242-247.

Omidvarnia, F.; Hansen, H.N.; Sarhadi, A.

A systematic approach applied in design of a micro heat exchanger. *International Journal of Advanced Manufacturing Technology*, (2015), 82(5), 1187-1195.

Ommen, T.S.; Jensen, J.K.; Markussen, W.B.; Reinholdt, L.; Elmegaard, B.

Technical and economic working domains of industrial heat pumps: Part 1 - single stage vapour compression heat pumps. *International Journal of Refrigeration*, (2015), 55, 168–182.

Ommen, T.; Markussen, W.B.; Elmegaard, B.

Lowering district heating temperatures – Impact to system performance in current and future Danish energy scenarios. *Energy*, (2015). 94, 273-291.

P

Kjær, L.L.; Pagoropoulos, A.; Hauschild, M.Z.; Birkved, M.; Schmidt, J.H.; McAloone, T.C.

From LCC to LCA Using a Hybrid Input Output Model – A Maritime Case Study. *Procedia C I R P*, (2015), 29, 474-479.

Pang, K.M.; Jangi, M.; Bai, X.-S., Schramm, J.

Evaluation and optimisation of phenomenological multi-step soot model for spray combustion under diesel engine-like operating conditions. *Combustion Theory and Modelling*, (2015), 19(3), 279–308.

Cheng, X.; Ng, H.K.; Ho, J.H.; Gan, S.; Pang, K.M.

Development and validation of a generic reduced chemical kinetic mechanism for CFD spray combustion modelling of biodiesel fuels. *Combustion and Flame*, (2015), 162(6), 2354-2370.

Alfonso Lopez, A.; Juul Jensen, D.; Luo, G-N.; Pantleon, W.

Thermal stability of a highly-deformed warm-rolled tungsten plate in the temperature range 1100 °C to 1250 °C. *Fusion Engineering and Design*, (2015), 98-99, 1924-1928.

Lin, F.X.; Zhang, Y.B.; Pantleon, W.; Juul Jensen, D.

Supercube grains leading to a strong cube texture and a broad grain size distribution after recrystallization. *Philosophical Magazine (London, 2003)*, (2015), 95(22), 2427-2449.

Simons, H.; King, A.; Ludwig, W.; Detlefs, C.; Pantleon, W.; Schmidt, S.; Snigireva, I.; Stöhr, F.; Snigir, A.; Poulsen, H.F.

Dark-field X-ray microscopy for multiscale structural characterization. *Nature Communications*, (2015), 6(6) 6098.

Zhang, Z, Mishin, O.; Tao, N.R.; Pantleon, W.

Microstructure and annealing behavior of a modified 9Cr-1Mo steel after dynamic plastic deformation to different strains. *Journal of Nuclear Materials*, (2015), 458, 64-69.

Zhang, Z, Mishin, O.; Tao, N.R.; Pantleon, W.

Effect of dynamic plastic deformation on microstructure and annealing behaviour of modified 9Cr-1Mo steel. *Materials Science and Technology*, (2015), 31(6), 715-721.

Zhang, L.; Pedersen, M.; Lin, Z.

Stability patterns for a size-structured population model and its stage-structured counterpart. *Mathematical Biosciences*, (2015), 267, 109-123.

Pedersen, N.L.

On the Influence of Force Distribution and Boundary Condition on Helical Gear Stiffness. *Modeling, Identification and Control (Online)*, (2015), 36(3), 143-155.

Pedersen, P.; Pedersen, N.L.

Distributed material density and anisotropy for optimized eigenfrequency of 2D continua. *Structural and Multidisciplinary Optimization*, (2015), 51, 1067-1076.

Pedersen, P.; Pedersen, N.L.

Eigenfrequency optimized 3D continua, with possibility for cavities. *Journal of Sound and Vibration*, (2015), 341, 100–115.

Pedersen, P.T.

Marine Structures: Future Trends and the Role of Universities. *Engineering*, (2015), 1(1), 131-138.

Zhang, S.; Pedersen, P.T.; Ocakli, H.

Collisions damage assessment of ships and jack-up rigs. *Ships and Offshore Structures*, (2015), 10(5), 470-478.

Pereira, G.F.; Mikkelsen, L.P.; McGugan, M.

Crack Detection i Fibre Reinforced Plastic Structures Using Embedded Fibre Bragg Grating Sensors: Theory, Model Development and Experimental Validation. *P L o S One*, (2015), 10(10).

McGugan, M.; Pereira, G.F.; Sørensen, B.F.; Toftegaard, H.L.; Branner, K.

Damage tolerance and structural monitoring for wind turbine blades. *Royal Society of London. Philosophical Transactions A. Mathematical, Physical and Engineering Sciences*, (2015), 373.

Drach, V.; Hietanen, A.; Pica, C.; Rantaharhu, J.; Sannino, F.

Template Composite Dark matter: SU(2) gauge theory with 2 fundamental flavours. *Proceedings of Science*, (2015).

Drach, V.; Hansen, M.; Hietanen, A.; Pica, C.; Sannino, F.

Conformal symmetry vs. chiral symmetry breaking in the SU(3) sextet model. *Proceedings of Science*, (2015).

Rantaharhu, J.; Drach, V.; Hietanen, A.; Pica, C.; Sannino, F.

Wilson Fermions with Four Fermion Interactions. *Proceedings of Science*, (2015).

Pierart Vásquez, F.G.; Santos, I.

Steady state characteristics of an adjustable hybrid gas bearing – Computational fluid dynamics, modified Reynolds equation and experimental validation. *Institution of Mechanical Engineers. Proceedings. Part J: Journal of Engineering Tribology*, (2015), 229(7), 807-822.

Benato, A.; Kæren, M.R.; Pierobon, L.; Stoppato, A.; Haglund, F.
Analysis of hot spots in boilers of organic Rankine cycle units during transient operation. *Applied Energy*, (2015), 151, 119-131.

Pigosso, D.C.A.; McAloone, T.C.
Supporting the Development of Environmentally Sustainable PSS by Means of the Ecodesign Maturity Model. *Procedia C I R P*, (2015), 30, 173-178.

Issa, I.I.; Pigosso, D.C.A.; McAloone, T.C.; Rozenfeld, H.
Leading product-related environmental performance indicators: a selection guide and database. *Journal of Cleaner Production*, (2015), 108, 321-330.

Pilny, L.; Bissacco, G.; De Chiffre, L.; Ramsing, J.
Acoustic emission-based in-process monitoring of surface generation in robot-assisted polishing. *International Journal of Computer Integrated Manufacturing*, (2015).

Pilny, L.; Bissacco, G.
Development of on the machine process monitoring and control strategy in Robot Assisted Polishing. *C I R P Annals*, (2015), 64(1), 313-316.

Feidenhan'l, N.A.; Hansen, P.E.; Pilny, L.; Madsen, M.H.; Bissacco, G.; Petersen, J.C.; Taboryski, R.J.
Comparison of optical methods for surface roughness characterization. *Measurement Science and Technology*, (2015), 26(8).

Poulios, K.; Renard, Y.
An unconstrained integral approximation of large sliding frictional contact between deformable solids. *Computers & Structures*, (2015), 153, 75-90.

Skar, A.; Poulsen, P. N.
3-D cohesive finite element model for application in structural analysis of heavy duty composite pavements. *Construction and Building Materials*, (2015), 101, 417-431.

Pyrz, R.
Elastic constants of Montmorillonite Platelets – Revisites. *Composites Science and Technology*, (2015).

Ya, M.; Pyrz, R.
Reinforcement Role of Carbon Nanotubes: Interfacial Properties of Carbon Fiber – Epoxy Nanocomposite. *Polymers and Polymer Composites*, (2015), 23(4), 213-222.

Ya, M.; Pyrz, R.
Reinforcement Role of Carbon Nanotubes, Part I: High Performance Epoxy Resin. *Polymer Composites*, (2015), 36(12), 2212-2219.

Q

R

Ramos Garcia, N.; Cayron, A.; Sørensen, J.N.

Unsteady Double Wake Model for the Simulation of Stalled Airfoils. *Journal of Energy and Power Engineering*, (2015), 3, 20-25.

Rasmussen, H.K.

Interchain tube pressure effect in the flow dynamics of bi-disperse polymer melts. *Rheologica Acta*, (2015), 54(1), 9-18.

Bao, H.; Nielsen, K.; Rasmussen, H.K.; Jepsen, P.U.; Bang, O.

Design and optimization of mechanically down-doped terahertz fiber directional couplers. *Optics Express*, (2015), 22(8) 9486-9497.

Bendtsen, K.; Rasmussen, K.; Hansen, M.B.; Fuglsang, T.; Rasmussen, J.

Determining Mechanical Parameters for Spin in Tennis Strings. *Medicine and Science in Tennis*, (2015), 20(1), 17-24.

Cronskar, M.; Rasmussen, J.; Tinnsten, M.

Combined finite element and multibody musculoskeletal investigation of a fractured clavicle with reconstruction plate. *Computer Methods in Biomechanics and Biomedical Engineering*, (2015), 18(7), 740-748.

Marra, M.; Vanheule, V.; Fluit, R.; Koopman, B.H.F.J.M.; Rasmussen, J.; Verdonschot, N.; Andersen, M.S.

A Subject-Specific Musculoskeletal Modeling Framework to Predict in Vivo Mechanics of Total Knee Arthroplasty. *Journal of Biomechanical Engineering*, (2015), 137(2).

Oomen, P.; Annegarn, J.; Rasmussen, J.; Rausch, J.; Siebertz, K.; Verdijk, L.; Meijer, K.

Development and Validation of a Rule-Based Strength Scaling Method for Musculoskeletal Modelling. *International Journal of Human Factors Modelling and Simulation*, (2015), 5(1), 19-32.

Putzer, M.; Ehrlich, I.; Rasmussen, J.; Gebbeken, N.; Dendorfer, S.

Sensitivity of lumbar spine loading to anatomical parameters. *Journal of Biomechanics*, (2015).

Ravn, P. M.; Guðlaugsson, T.V.; Mortensen, N. H.

A multi-layered approach to product architecture modeling: Applied to technology prototypes. *Concurrent Engineering: Research and Applications*, (2015).

Rojas Labanda, S.; Stolpe, M.

Benchmarking optimization solvers for structural topology optimization. *Structural and Multidisciplinary Optimization*, (2015), 52(3), 527-547.

Rojas Labanda, S.; Stolpe, M.

Automatic penalty continuation in structural topology optimization. *Structural and Multidisciplinary Optimization*, (2015), 52(6), 1205-1221.

Rokni, M.

Thermodynamic analyses of municipal solid waste gasification plant integrated with solid oxide fuel cell and Stirling hybrid system. *International Journal of Hydrogen Energy*, (2015), 40(24), 7855-7869.

Rokni, M.

Dual Pressure versus Hybrid Recuperation in an Integrated Solid Oxide Fuel Cell Cycle – Steam Cycle. *Journal of Energy and Power Engineering*, (2015), 596-611.

Rokni, M.; Vialetto, G.

Innovative Household Systems Based on Solid Oxide Fuel Cells for a Northern European climate. *Renewable Energy*, (2015), 78, 146-156.

Vialetto, G.; Rokni, M.; Noro, M.

Innovative household systems based on solid oxide fuel cells for the Mediterranean climate. *International Journal of Hydrogen Energy*, (2015), 40(41), 14378–14391.

Gregersen, I. B.; Madsen, H.; Rosbjerg, D.; Arnbjerg-Nielsen, K.

Long term variations of extreme rainfall in Denmark and southern Sweden. *Clim. Dyn.*, (2015), 44(11-12), 3155-3169.

Liu, D.; Li, X.; Guo, S.; Rosbjerg, D.; Chen, H.

Using a Bayesian probabilistic forecasting model to analyze the uncertainty in real-time dynamic control of the flood limiting water level for reservoir operation. *J. Hydrol. Eng.*, (2015), 20(2).

Matheswaran, K.; Blemmer, M.; Thorn, P.; Rosbjerg, D.; Boegh, E.

Investigation of stream temperature response to nonuniform groundwater discharge in a Danish lowland stream. *River Res. Appl.*, (2015), 31(8), 975-992.

Sunyer, M. A.; Gregersen, I. B.; Rosbjerg, D.; Madsen, H.; Luchner, J.; Arnbjerg-Nielsen, K.

Comparison of different downscaling methods to estimate changes in hourly extreme precipitation using RCM projections from ENSEMBLES. *Int. J. Climatol.*, (2015), 35(9), 2528-2539.

Røn, T.; Javakhishvili, I.; Hvilsted, S.; Jankova, K.; Lee, S.

Ultralow Friction with Hydrophilic Polymer Brushes in Water as Segregated from Silicone Matrix. *Advanced Materials Interfaces*, (2015).

S

Salazar, J.A.G.; Santos, I.

Exploring integral controllers in actively-lubricated tilting-pad journal bearings. *Institution of Mechanical Engineers. Proceedings. Part J: Journal of Engineering Tribology*, (2015), 229(7), 835-848.

Salazar, J.A.G.; Santos, I.

Feedback-controlled lubrication for reducing the lateral vibration of flexible rotors supported by tilting-pad journal bearings. Institution of Mechanical Engineers. Proceedings. Part J: Journal of Engineering Tribology, (2015), 229(10), 1264-1275.

Alves da Silveira, O.A.; Ono Fonseca, J.S.; Santos, I.

Actuator topology design using the controllability Gramian. Structural and Multidisciplinary Optimization, (2015), 51, 145-157.

Cerda Varela, A.J.; Santos, I.

Dynamic Coefficients of a Tilting Pad With Active Lubrication: Comparison Between Theoretical and Experimental Results. Journal of Tribology, (2015), 137(3).

Larsen, J.S.; Santos, I.

On the nonlinear steady state response of rigid rotors supported by air foil bearings - Theory and experiments. Journal of Sound and Vibration, (2015), 346, 284-297.

Sekunda, A.K.; Niemann, H.H.; Poulsen, N.K.; Santos, I.

Closed loop identification using a modified Hansen scheme: Paper. Journal of Physics: Conference Series, (2015), 659.

Sessarego, M.; Ramos Garcia, N.; Shen, W.Z.

Development of a Fast Flui-Structure Coupling Technique for Wind Turbine Computations. Journal of Power and Energy Engineering, (2015), 3, 1-6.

Schilder, F.; Bureau, E.; Santos, I.F.; Thomsen, J.J.; Starke, J.

Experimental bifurcation analysis—Continuation for noise-contaminated zero problems. Journal of Sound and Vibration, (2015), 358, 251-266.

Hansen, C. V.; Schroll, A.; Wüstner, D.

Computational Modeling of Fluorescence Loss in Photobleaching. Computing and Visualization in Science, (2015), 17(4), 151-166.

Theisen, L.R.S.; Niemann, H.H.; Santos, I.; Galeazzi, R.; Blanke, M.

Modelling and Identification for Control of Gas Bearings. Mechanical Systems and Signal Processing, (2015), 70-71, 1150-1170.

Shen, W.Z.; Zhu, W.J.; Yang, H.

Validation of the Actuator Line Model for Simulating Flows past Yawed Wind Turbine Rotors. Journal of Power and energy Engineering, (2015), 3, 7-13.

Kolmogorov, D.; Shen, W.Z.; Sørensen, N.N.; Sørensen, J.N.

Fully Consistent SIMPLE-Like Algorithms on Collocated Grids. Numerical Heat Transfer Part B: Fundamentals, (2015), 67, 101-123.

Nilsson, K.; Shen, W.Z.; Sørensen, J.N.; Breton, S.-P.; Ivanell, S.

Erratur: Validation of the actuator line method using near wake measurements of the MEXICO rotor. Wind Energy, (2015), 18.

Shi, Y.; Zuo, H.; Yang, H.; Zhou, H.; Shen, W.Z.

Aerodynamic performance of wind turbine under different yaw angles. *Nongye Gongcheng Xuebao*, (2015), 31(16), 78-85.

Xu, C.; Han, X.; Wang, X.; Liu, D.; Zheng, Y.; Shen, W.Z.; Zhang, M.

Study of wind turbine wake modeling based on a modified actuator disk model and extended k- ϵ turbulence model. *Zhongguo dianji Gongcheng Xuebao*, (2015), 35(8), 1954-1961.

Donoso, A.; Sigmund, O.

Topology optimization of piezo modal transducers with null-polarity phases. *Structural and Multidisciplinary Optimization*, (2015), 53(2), 193-203.

Johansen, V.E.; Thamdrup, L.H.; Smitrup, C.; Sigmund, O.; Vukusic, P.

Designing visual appearance using a structured surface. *Optica*, (2015), 2(3), 239-245.

Sigurjonsson, H.Æ.; Elmegaard, B.; Clausen, L.R.; Ahrenfeldt, J.

Climate effect of an integrated wheat production and bioenergy system with Low Temperature Circulating Fluidized Bed gasifier. *Applied Energy*, (2015), 160, 511-520.

Sonne, M.R.; Smistrup, K.; Hannibal, M.; Thorborg, J.; Nørregaard, J.; Hattel, J.H.

Modeling and simulation of the deformation process of PTFE flexible stamps for nanoimprint lithography on curved surfaces. *Journal of Materials Processing Technology*, (2015), 216, 418–429.

Esfahania, M.N.; Sonne, M.R.; Hattel, J.H.; Alaca, B.E.

Thermo-coupled Surface Cauchy-Born Theory: An Engineering Finite Element Approach to Modeling of Nanowire Thermomechanical Response. *Mechanics of Materials*, (2015), 94, 46-52.

Sorokin, S.V.

On propagation of plane symmetric waves in a periodically corrugated straight elastic layer. *Journal of Sound and Vibration*, (2015), 349, 348-360.

Sorokin, V.S.; Thomsen, J.J.

Eigenfrequencies and eigenmodes of a beam with periodically continuously varying spatial properties. *Journal of Sound and Vibration*, (2015), 347, 14-26.

Sorokin, V.; Thomsen, J.J.

Vibration suppression for strings with distributed loading using spatial cross-section modulation. *Journal of Sound and Vibration*, (2015), 335, 66–77.

Blekhman, I.I.; Sorokin, V.S.

Effects produced by oscillations applied to nonlinear dynamic systems: a general approach and examples. *Nonlinear Dynamics*, (2015).

Hvatov, A.; Sorokin, S.

Free vibrations of finite periodic structures in pass- and stop-bands of the counterpart infinite waveguides. *Journal of Sound and Vibration*, (2015), 347, 200-217.

- Kolman, R.; Sorokin, S.; Bastl, B.; Kopačka, J.; Plešek, J.
Isogeometric analysis of free vibration of simple shaped elastic samples. *Journal of the Acoustical Society of America*, (2015), 137(4), 2089-2100.
- Morsbøl, J.; Sorokin, S.V.
Elastic wave propagation in curved flexible pipes. *International Journal of Solids and Structures*, (2015), 75-76, 143-155.
- Nielsen, R.B.; Sorokin, S.V.
Periodicity effects of axial waves in elastic compounds rods. *Journal of Sound and Vibration*, (2015), 353, 135-149.
- Di Bella, C.; Wyrzykowski, M.; Griffa, M.; Termkhajornkit, P.; Chanvillard, G.; Stang, H.; Eberhardt, A.; Lura, P.
Application of microstructurally-designed mortars for studying early-age properties: Microstructure and mechanical properties. *Cement and Concrete Research*, (2015), 78(Part B), 234-244.
- Feng, H.; Pettinari, M.; Stang, H.
Study of normal and shear material properties for viscoelastic model of asphalt mixture by discrete element method. *Construction and Building Materials*, (2015), 98, 366-375.
- Feng, H.; Pettinari, M.; Hofko, B.; Stang, H.
Study of the Internal Mechanical response of an asphalt mixture by 3-D Discrete Element Modelling. *Construction and Building Materials*, (2015), 77, 187-196.
- Hodicky, K.; Hansen, S.; Hulin, T.; Schmidt, J. W.; Stang, H.
Cost optimization of load carrying thin-walled precast high performance concrete sandwich panels. *Structural and Multidisciplinary Optimization*, (2015), 52(6), 1089-1106.
- Hodicky, K.; Sopal, G.; Rizkalla, S.; Hulin, T.; Stang, H.
Experimental and Numerical Investigation of the FRP Shear Mechanism for Concrete Sandwich Panels. *Journal of Composites for Construction*, (2015), 19(5).
- Hulin, T.; Hodicky, K.; Schmidt, J. W.; Stang, H.; Maluk, C.; Bisby, L.
Experimental Studies on the Fire Behaviour of High Performance Concrete Thin Plates. *Fire Technology*, (2015).
- Hulin, T.; Hodicky, K.; Schmidt, J. W.; Stang, H.
Experimental investigations of sandwich panels using high performance concrete thin plates exposed to fire. *Materials and Structure*, (2015), 1-13.
- Hulin, T.; Hodicky, K.; Schmidt, J. W.; Stang, H.
Sandwich panels with high performance concrete thin plates at elevated temperatures: numerical studies. *Materials and Structures*, (2015), 1-17.
- Hulin, T.; Lauridsen, D. H.; Hodicky, K.; Schmidt, J. W.; Stang, H.
Influence of Basalt FRP Mesh Reinforcement on High-Performance Concrete Thin Plates at High Temperatures. *Journal of Composites for Construction*, (2015).

- Michel, A.; Stang, H.; Lepech, M.; Geiker, M. R.
Multi-Physics and Multi-Scale Deterioration Modelling of Reinforced Concrete. *Key Engineering Materials*, (2016), 665, 13-16.
- Baykal, C.; Sumer, B.M.; Fuhrman, D.R.; Jacobsen, N.G.; Fredsøe, J.
Numerical investigation of flow and scour around a vertical circular cylinder. *Royal Society of London. Philosophical Transactions A. Mathematical, Physical and Engineering Sciences*, (2015), 373(21).
- Nielsen, A.W.; Probst, T.; Petersen, T.U.; Sumer, B.M.
Sinking of armour layer around a vertical cylinder exposed to waves and current. *Coastal Engineering*, (2015), 100, 58-66.
- Petersen, T.U.; Sumer, B.M.; Fredsøe, J.; Raaijmakers, T.C.; Schouten, J.J.
Edge scour at scour protections around piles in the marine environment - Laboratory and field investigation. *Coastal Engineering*, (2015), 106, 42-72.
- Petersen, T.U.; Sumer, B.M.; Bøgelund, J.; Yazici, A.; Fredsøe, J.; Meyer, K.E.
Flow and edge scour in current adjacent to stone covers. *Journal of Waterway, Port, Coastal, and Ocean Engineering*, (2015), 141(4).
- Ashouri Vajari, D.; Sørensen, B. F.; Legarth, B. N.
Effect of fiber positioning on mixed-mode fracture of interfacial debonding in composites. *International Journal of Solids and Structures*, (2015), 53, 58-69.
- Edwards, G.; Sørensen, C. A. G.; Bochtis, D.; Munkholm, L. J.
Optimised schedules for sequential agriculture operations using a tabu search method. *Computers and Electronics in Agriculture*, (2015), 117, 102-113.
- Fountas, S.; Sørensen, C. A. G.; Tsiropoulos, Z.; Cavalaris, C.; Liakos, V.; Gemtos, T.
Farm machinery management informative system. *Computers and Electronics in Agriculture*, (2015), 110, 131-138.
- Fountas, S.; Carli, G.; Sørensen, C. A. G.; Tsiropoulos, Z.; Cavalaris, C.; Vatsanidou, A.; Liakos, B.; Canavari, M.; Wiebensohn, J.; Tisserye, B.
Farm management information systems: Current situation and future perspectives. *Computers and Electronics in Agriculture*, (2015), 115, 40-50.
- Jensen, M. A. F.; Nørremark, M.; Busato, P.; Sørensen, C. A. G.
Coverage planning for capacitated field operations, part I: Task decomposition. *Biosystems Engineering*, (2015), 139, 136-148.
- Jensen, M. A. F.; Bochtis, D.; Sørensen, C. A. G.
Coverage planning for capacitated field operations, part II: Optimisation. *Biosystems Engineering*, (2015), 139, 149-164.
- Pedersen, H. H.; Sørensen, C. A. G.; Oudshorn, F. W.; Krogsgaard, P.; Munkholm, L. J.
Evaluation Of Onion Production On Sandy Soils By Use Of Reduced Tillage And Controlled Traffic Farming With Wide Span Tractors. *Acta Technologica Agriculture*, (2015), 18(3), 74-82.

Sørensen, S. G.; Hjorth, M.; Leahy, J. J.; Zhu, K. Christel, W.; Sørensen, C. A. G.; Sutaryo, S. Pig slurry characteristics, nutrient balance and biogas production as affected by separation and acidification. *Journal of Agriculture Science*, (2015), 153, 177-191.

Zhou, K.; Jensen, A. L.; Bochtis, D.; Sørensen, C. A. G. Performance of machinery in potato production in one growing season. *Spanish Journal of Agricultural Research*, (2015), 13.

Zhou, K.; Jensen, A. L.; Bochtis, D.; Sørensen, C. A. G. Quantifying the benefits of alternative fieldwork patterns in a potato cultivation system. *Computers and Electronics in Agriculture*, (2015), 119, 228-240.

Zhou, K.; Jensen, A. L.; Bochtis, D.; Sørensen, C. A. G. Simulation model for the sequential in-field machinery operations in a potato production system. *Computers and Electronics in Agriculture*, (2015), 116, 173-186.

Ambühl, S.; Ferri, F.; Kofoed, J. P.; Sørensen, J. D. Fatigue reliability and calibration of fatigue design factors of wave energy converters. *International Journal of Marine Energy*, (2015), 10(June), 17-38.

Ambühl, S.; Kofoed, J. P.; Sørensen, J. D. Quantification of Wave Model Unvertainties Used for Probabilistic Reliability Assessments of Wave Energy Converters. *Journal of Ocean and Wind Energy*, (2015), 2(2), 98-106.

Ambühl, S.; Marquis, L.; Kofoed, J. P.; Sørensen, J. D. Operation and maintenance strategies for wave energy converters. *Institute of Mechanical Engineering, Proceedings, Part O: Journal of Risk and Reliability*, (2015), 229(5), 417-441.

Rafsanjani, H. M.; Sørensen, J. D. Reliability Analysis of Fatigue Failure of Cast Components for Wind Turbines. *Energies*, (2015), 8(4), 2908-2923.

Sørensen, J.N.; Dag, K.O., Ramos Garcia, N. A refined tip correction based on decambering. *Wind Energy*, (2015).

Sørensen, J.N.; Mikkelsen, R.F.; Henningson, D.S.; Ivanell, S.; Sarmast, S.; Andersen, S.J. Simulation of wind turbine wakes usind the actuator line technique. *Royal Society of London. Philosophical Transations A. Mathematical, Physical and Engineering Sciences*, (2015), 373(2035).

Sarlak, H.; Meneveau, C.; Sørensen, J.N. Role of subgrid-scale modeling in large eddy simulation of wind turbine wake interactions. *Renewable Energy*, (2015), 77, 386-399.

Van Kuik, G.A.M.; Sørensen, J.N.; Okulov, V.L. Rotor theories by Professor Joukowsky: Momentum theories. *Progress in Aerospace Sciences*, (2015), 73, 1-18.

Sørensen, R.; Lund, E.

In-plane Material Filters for the Discrete Material Optimization Method. *Structural and Multidisciplinary Optimization*, (2015), 52(4), 645-61.

Sørensen, R.; Lund, E.

Thickness filters for gradient based multi-material and thickness optimization of laminated composite structures. *Structural and Multidisciplinary Optimization*, (2015), 52(2), 227-250.

Sørensen, S.N.; Stolpe, M.

Global blending optimization of laminated composites with discrete material candidate selection and thickness variation. *Structural and Multidisciplinary Optimization*, (2015), 52(1), 137-155.

T

Di Muoio, G.L.; Tiedje, N.S.

Achieving Control of Coating Process in your Foundry. *Archives of Foundry Engineering*, (2016), 15(4), 110-114.

Thomassen, C.

Orientations of infinite graphs with prescribed edge-connectivity. *Combinatorica*, (2015).

Alahmadi, A.; Aldred, R. E. L.; Alkenani, A.; Hijazi, R.; Solé, P.; Thomassen, C.

Extending a perfect matching to a Hamiltonian cycle. *Discrete Mathematics and Theoretical Computer Science (Online Edition)*, (2015), 17(1), 241-254.

Van Aardt, S. A.; Burger, A. P.; Dunbar, J. E.; Frick, M.; Llano, B.; Thomassen, C.; Zuazua, R.
Destroying longest cycles in graphs and digraphs. *Discrete Applied Mathematics*, (2015), 186, 251-259.

Sheikh, A.H.; Asadi, A.; Thomsen, O.T.

Vibration of thin-walled laminated composite beams having open and closed section. *Composite Structures*, (2015), 134, 209-215.

May, A.; MacMillan, D.; Thøns, S.

Economic analysis of condition monitoring systems for offshore wind turbine sub-systems. *I E T Renewable Power Generation*, (2015), 9(8), 900-907.

Schneider, R.; Fischer, J.; Bügler, M.; Nowak, M.; Thøns, S.; Borrmann, A.; Straub, D.

Assessing and updating the reliability of concrete bridges subjected to spatial deterioration – principles and software implementation. *Structural Concrete*, (2015), 16(3), 356-365.

Tvergaard, V.

Behaviour of porous ductile solids at low stress triaxiality in different modes of deformation. *International Journal of Solids and Structures*, (2015), 60-61, 28–34.

Tvergaard, V.

Effect of initial void shape on ductile failure in a shear field. *Mechanics of Materials*, (2015), 90, 2-9.

Tvergaard, V.

Study of localization in a void-sheet under stress states near pure shear. *International Journal of Solids and Structures*, (2015), 75-76, 134-142.

Cerullo, M.; Tvergaard, V.

Micromechanical study of the effect of inclusions on fatigue failure in a roller bearing. *International Journal of Structural Integrity*, (2015), 6(1), 124-124

Osovski, S., Srivastava, A.K.; Ponson, L.; Bouchaud, E.; Tvergaard, V.; Ravi-Chandar, K.; Needleman, A.

The effect of loading rate on ductile fracture toughness and fracture surface roughness. *Journal of the Mechanics and Physics of Solids*, (2015), 76, 20-46.

U

V

Vedel-Smith, N.K.; Rasmussen, J.; Tiedje, N.S.

Thermal distortion of disc-shaped ductile iron castings in vertically parted moulds. *Journal of Materials Processing Technology*, (2015), 217, 262-271.

Buchhave, P.; Velte, C.M.

Reduction of noise and bias in randomly sampled power spectra. *Experiments in Fluids*, (2015), 56(79).

Fernández-Gámiz, U.; Velte, C.M.; Réthoré, P.-E.; Sørensen, N.N.; Egusquiza, E.

Testing of self-similarity and helical symmetry in vortex generator flow simulations. *Wind Energy* (2015).

Verdingovas, V.; Jellesen, M.S.; Ambat, R.

Solder Flux Residues and Humidity-Related Failures in Electronics: Relative Effects of Weak Organic Acids Used in No-Clean Flux Systems. *Journal of Electronic Materials*, (2015), 44(4), 1116-1127.

Verdingovas, V.; Müller, L.; Jellesen, M.S.; Grumsen, F.B.; Ambat, R.

Effect of iodine on the corrosion of Au-Al wire bonds. *Corrosion Science*, (2015), 97, 161-171.

Verdingovas, V.; Jellesen, M.S.; Ambat, R.

Effect of pulsed voltage on electrochemical migration of tin in electronics. *Journal of Materials Science: Materials in Electronics*, (2015), 26(10), 7997-8007.

Verdingovas, V.; Jellesen, M.S.; Ambat, R.

Relative effect of solder flux chemistry on the humidity related failures in electronics. *Soldering & Surface Mount Technology*, (2015), 27(4), 146-156.

Villa, M.; Christiansen, T.L.; Hansen, M.F.; Somers, M.A.

Investigation of Martensite Formation in Fe Based Alloys During Heating From Boiling Nitrogen Temperature. *La Metallurgia Italiana*, (2015), 11(12), 39-46.

W

Alexeev, D.; Chen, J.; Walther, J.H.; Giapis, K.P.; Angelikopoulos, P.; Koumoutsakos, P. Kapitza Resistance between Few-Layer Graphene and Water: Liquid Layering Effects. *Nano Letters*, (2015), 15(9), 5744-5749.

Chen, J.; Walther, J.H.; Koumoutsakos, P. Covalently Bonded Graphene-Carbon Nanotube Hybrid for High-Performance Thermal Interfaces. *Advanced Functional Materials*, (2015), 25(48), 7539-7545.

Fasil, M.; Plesner, D.; Walther, J.H.; Mijatovic, N.; Holbøll, J.; Jensen, B.B. Numerical and Experimental Investigation of Heat Flow in Permanent Magnet Brushless DC Hub Motor. *SAE International Journal of Alternative Powertrains*, (2015), 4(1).

Hejlesen, M.M.; Koumoutsakos, P.; Leonard, A.; Walther, J.H. Iterative Brinkman penalization for remeshed vortex methods. *Journal of Computational Physics*, (2015), 280, 547-562.

Hejlesen, M.M.; Rasmussen, J.T.; Larsen, A.; Walther, J.H. On estimating the aerodynamic admittance of bridge sections by a mesh-free vortex method. *Journal of Wind Engineering and Industrial Aerodynamics*, (2015), 146, 117-127.

Hejlesen, M.M.; Rasmussen, J.T.; Catelain, P.; Walther, J.H. High order Poisson Solver for unbounded flows. *I U T A M. Procedia*, (2015), 18, 56-65.

Jones, P.R.; Hao, X.; Cruz-Chu, E.R.; Rykaczewski, K.; Nandy, K.; Schutzius, T.M.; Varanasi, K.K.; Megaridis, C.M.; Walther, J.H.; Koumoutsakos, P.; Espinosa, H.D.; Patankar, N. Sustaining dry surfaces under water. *Scientific Reports*, (2015), 5(10).

Oyarzua, E.; Walther, J.H.; Mejia, A.; Zambrano, H. Early Regimes of Water Capillary Flow in Slit Silica Nanochannels. *Physical Chemistry Chemical Physics*, (2015), 17(22), 14731-14739.

Popadic, A.; Praprotnik, M.; Koumoutsakos, P.; Walther, J.H. Continuum simulations of water flow past fullerene molecules. *European Physical Journal. Special Topics*, (2015), 224(12), 2321-2330.

Weldeyesus, A.G.; Stolpe, M. A primal-dual interior point method for large-scale free material optimization. *Computational Optimization and Applications*, (2015), 61(2), 409-435.

Winther, G.; Hong, C.; Huang, X. Low-Energy Dislocation Structure (LEDS) character of dislocation boundaries aligned with slip planes in rolled aluminium. *Philosophical Magazine (London, 2003)*, (2015), 95(13), 1471-1489.

Oddershede, J.; Wright, J.P.; Beaudoin, A.; Winther, G. Deformation-induced orientation spread in individual bulk grains of an interstitial-free steel. *Acta Materialia*, (2015), 85, 301-313.

Wu, G.; Bai, S.; Kepler, J.A.

Stiffness characterization of a 3-PPR planar parallel manipulator with actuation compliance. Institution of Mechanical Engineers. Proceedings. Part C: Journal of Mechanical Engineering Science, (2015), 229, 2291-2302.

Wu, G.; Caro, S.; Wang, J.

Design and Transmission Analysis of an Asymmetrical Spherical Parallel Manipulator. Mechanism and Machine Theory, (2015), 94, 119-131.

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Zhang, Y.; Hansen, H.N.; Sørensen, S.

Replication of Micro pillars by PEEK injection moulding with CrN coated Ni tool. International Journal of Advanced Manufacturing Technology, (2015), 80(1), 383-388.

Zhou, M.; Lazarov, B.S.; Wang, F.; Sigmund, O.

Minimum length scale in topology optimization by geometric constraints. Computer Methods in Applied Mechanics and Engineering, (2015), 293, 266-282.

Luo, Y.; Wu, X.; Zhou, M.; Wang, M.Y.

Simultaneous parameter and tolerance optimization of structures via probability-interval mixed reliability model. Structural and Multidisciplinary Optimization, (2015), 51(3), 705-719.

Luo, Y.; Wang, M.Y.; Zhou, M.; Deng, Z.

Topology optimization of reinforced concrete structures considering control of shrinkage and strength failure. Computers and Structures, (2015), 157, 31-41.

Tian, L.; Zhu, W.J.; Shen, W.Z.; Zhao, N.; Shen, Z.

Development and validation of a new two-dimensional wake model for wind turbine wakes. Journal of Wind engineering and Industrial Aerodynamics, (2015), 137, 90-99.

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4B. BOOKS

Andreasen, M.M.; Hansen, C.T.; Cash, P.

Conceptual Design. Interpretations, Mindset and Models. Springer, (2015).

Arora, V.

Hybrid viscous-structural damping identification method. Vibration Engineering and Technology of Machinery: Proceedings of VETOMAC X 2014, held at the University of Manchester, UK. Springer, 209-218, (2015).

Tan, Z.-H.; Bai, S.; Bak, T.; Rehm, M.; Jochum, E.A. (red.)

The 3rd AAU Workshop on Robotica: Proceedings. Aalborg Universitetsforlag. (AAUWorkshopon Robotics), (2015).

Turon, A.; Bak, B.L.; Lindgaard, E.; Sarrado, C.; Lund, E.

Interface elements for fatigue-driven delaminations in advanced composite materials. I P. Camanho, & S. Hailett (red.), Numerical Modelling of Failure in Advanced Composite Materials. (1st. edition, 73-91). Woodhead Publishing. (Woodhead Publishing Series in composites Science and Engineering), (2015).

De Zee, M.; Rasmussen, J.

Musculoskeletal modelling. I G. Jull, A. Moore, D. Falla, J. Lewis, C. McCarthy & Sterling (red.), Grieve's Modern Musculoskeletal Physiotherapy. (4th edition, 187-193). Chapter 19. Elsevier Science, (2015)

Sivebæk, I.M.

Wear: Papers from the NORDTRIB 2104 conference. Elsevier Science.

Thöns, S.

Workshop Proceedings: Quantifying the Value of Structural Health Monitoring. Denmark: Technical University of Denmark, Department of Civil Engineering, (2015).

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

S1 – S107: Ask for separate book.

S108. JONCQUEZ, SOIZIC ANNICK GABRIELLE: Second-order Forces and Moments acting on Ships in Waves (August 2009)

S109. DÜHRING, MARIA BAYARD: Optimization of acoustic, optical and optoelastic devices (July 2009)

S110. NIELSEN, KIM LAU: Modelling of damage development and ductile failure in welded joints (December 2009)

S111. ESTUPINAN, EDGAR ALBERTO: Feasibility of Applying Controllable Lubrication Techniques to Reciprocating Machines (December 2009)

S112. BANG-MØLLER, CHRISTIAN: Design and Optimization of an Integrated Biomass Gasification and Solid Oxide Fuel Cell System (April 2010)

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- S124 SHIN, KEUN WOO: Cavitation simulation on marine propeller (November 2010)
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- S128 ZAMBRANO, HARVEY A: Molecular Dynamics Studies of Nanofluidic Devices (May 2011)
- S129 AAGE, NIELS: Topology optimization of radio frequency and microwave structures (April 2011)
- S130 MATZEN, RENÉ: Topology Optimization for Transient Wave Propagation Problems (March 2011)
- S131 ANDREASEN, CASPER SCHOUSBOE: Multiscale topology optimization of solid and fluid structures (May 2011)
- S132 KÆRN, MARTIN RYHL: Analysis of flow maldistribution in fin-and-tube evaporators for residential air-conditioning systems (August 2011)
- S133 BEHRENS, TIM: Simulation of Moving Tailing edge Flaps on a Wind Turbine Blade using a Navier-Stokes based Immersed Boundary Method (July 2011)
- S134 BLASQUES, JOSÉ PEDRO ALBERGARIA AMARAL: Optimal Design of Laminated Composite Beams (August 2011)
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- S141 MOSLEMIAN, RAMIN: Residual Strength and Fatigue Lifetime of Debond Damaged Sandwich Structures (September 2011)
- S142 HANSEN, SØREN VINTHER: Performance Monitoring of Ships (September 2011)
- S143 HANSEN, NILAS MANDRUP: Interaction between Seabed Soil and Offshore Wind Turbine Foundations (March 2012)
- S144 THOMSEN, KIM: Modeling of dynamically loaded hydrodynamic bearings at low Sommerfeld numbers (March 2012)
- S145 WANG, FENGWEN: Systematic Design of Slow Light Waveguides (August 2012)
- S146 RASMUSSEN, JOHANNES TOPHØJ: Particle Methods in Bluff Body Aerodynamics (October 2011)
- S147 ANDERSEN, SØREN BØGH: Design and Optimization of Gearless Drives using Multi-Physics Approach (September 2012)
- S148 LAHRIRI, SAID: On the Rotor to Stator Contact Dynamics with Impacts and Friction – Theoretical and Experimental Study (November 2012)
- S149 VARELA, ALEJANDRO CERDA: Mechatronics Applied to Fluid Film Bearings: Towards More Efficient Machinery (December 2012)
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- S157: JENSEN, MICHAEL V.: Heat Transfer in Large Two-Stroke Marine Diesel Engines (August 2012)
- S158: TORRY-SMITH, JONAS MØRKEBERG: Designing Mechatronic Products – Achieving Integration by Means of Modelling Dependencies (February 2013)
- S159: POULIOS, KONSTANTINOS: Tribology of A Combined Yaw Bearing and Brake for Wind Turbines (September 2013)
- S160: JØRGENSEN, MARTIN FELIX: Aerodynamic and Mechanical System Modelling (November 2013)
- S161: ROTHUIZEN, ERASMUS DAMGAARD: Hydrogen Fuelling Stations – A Thermodynamic Analysis of Fuelling Hydrogen Vehicles for Personal Transportation (September 2013)
- S162: WÖRÖSCH, MICHAEL: End-to-end requirements management for multiprojects in the construction industry (February 2014)
- S163: BUREAU, EMIL: Experimental Bifurcation Analysis Using contro-Based continuation (January 2014)
- S164: VAJARI, DANIEL ASHOURI: Micromechanical failure in fiber-reinforced composites (March 2014)
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- S170: NGUYEN, TUONG-VAN: Modelling, analysis and optimization of energy systems on offshore platforms (October 2014)
- S171: AMINI AFSHAR, MOSTAFA: Towards Predicting the Added Resistance of Slow Ships in Waves (October 2014)
- S172: ANDREASSEN, ERIK: Optimal Design of Porous Materials (January 2015)
- S173: JOHANSEN, VILLADS EGEDE: Structural colours and applications to anodized aluminium surfaces (November 2014)

- S174: BRUUN, HANS PETER LOMHOLT: PLM support to architecture based development – Contribution to computer-supported architecture modelling (January 2015)
- S175: FUGLEDE, NIELS: Kinematics and Dynamics of Roller Chain Drives (July 2014)
- S176: LARSEN, ULRIK: Design and modelling of innovative machinery systems for large ships (October 2014)
- S177: LARSEN, JON STEFFEN: Nonlinear Analysis of Rotors Supported by Air Foil Journal Bearings – Theory & Experiments (February 2015)
- S178: INGVORSEN, KRISTIAN MARK: Investigations of the turbulent swirling flow in a two-stroke marine diesel engine (November 2013)
- S179: ERIKSEN, RASMUS NORMANN: High Strain Rate characterization of Composite materials (March 2014)
- S180: PEDERSEN, BENJAMIN PJEDSTED: Data-driven Vessel Performance Monitoring (June 2014)
- S181: JANAKIRAMAN, SHRAVAN: Fatigue and Wear in Rolling and Sliding Contacts (November 2014)
- S182: CHRISTIANSEN, NIELS HØRBYE: Hybrid Method Simulation of Slender Marine Structures (August 2014)
- S183: PIEROBON, LEONARDO: Novel design methods and control strategies for oil and gas offshore power systems (October 2014)
- S184: DOU, SUGUANG: Gradient-based optimization in nonlinear structural dynamics (April 2015)
- S185: CORDTZ, RASMUS FAURSKOV: The Influence of Fuel Sulfur on the Operation of Large Two-Stroke Marine Diesel Engines (January 2014)
- S186: JEPSEN, ALLAN DAM: ARCHITECTURE DESCRIPTIONS – A contribution to Modeling of Production System Architecture (September 2014)
- S187: OMMEN, TORBEN SCHMIDT: Heat Pumps in CHP Systems. High-efficiency Energy System Utilising Combined Heat and Power and Heat Pumps (April 2015)
- S188: MODI, ANISH: Numerical evaluation of the Kalina cycle for concentrating solar power plants (August 2015)
- S189: ENEMARK, SØREN: Integration of shape Memory Alloys into Low-Damped Rotor-Bearing Systems – Modelling, Uncertainties and Experimental Validation (October 2015)

S190: WRONSKI, JORRIT: Design and Modelling of Small Scale Low Temperature Power Cycles (May 2015)

S191: ANDERSEN, FREDERIK HERLAND: Integrated Analysis of the Scavenging Process in Marine Two-Stroke Diesel Engines (August 2015)

S192: GUOLAUGSSON, TÓMAS VIGNIR: Modelling architectures in multi-product oriented technology development (July 2015)

S193: CHRISTIANSEN, CHRISTIAN KIM: Diesel Engine Tribology (December 2015)

S194: COSTACHE, ANDREI: Anchoring FRP Composite Armor in Flexible Offshore Riser Systems (October 2015)

6. OTHER THESES

ADESOKAN, BOLAJI JAMES: “Numerical Modeling of Microelectrochemical Systems”, DTU Compute: Department of Applied Mathematics and Computer Science, 2015, PhD Thesis.

BAK, BRIAN LAU VERNDAL: “Progressiv Damage Simulation of Laminates in Wind Turbine Blades under Quasistatic and Cyclic Loading”, Aalborg University, Department of Mechanical and Manufacturing Engineering, 2015, PhD Thesis.

BAKKEDAL, MORTEN: “Thermodynamics of the hexagonal close-packed iron-nitrogen system from first-principles”, DTU Mechanical Engineering, 2015, PhD Thesis.

BRINK, BASTIAN: “Synthesis and characterization of homogeneous interstitial solutions of nitrogen and carbon in ironbased lattices”, DTU Mechanical Engineering, 2015, PhD Thesis.

BALCI, ADNAN: “Topological Fluid Dynamics for Free and Viscous Surfaces”, DTU Compute: Department of Applied Mathematics and Computer Science, 2015, PhD Thesis.

CASPERSEN, MICHAEL: “High-efficiency, low-cost, durable electrodes for hydrogen production in advanced alkaline water electrolysis”, DTU Mechanical Engineering, 2015, PhD Thesis.

COX, RIMANTE: “Climate Change and Its Impact on the Operation and Maintenance of Buildings”, DTU Civil Engineering, 2015, PhD Thesis.

CUSTER, ROCCO: “Development of a natural hazard risk model framework with application to flood risk”, DTU Civil Engineering, 2015, PhD Thesis.

DA SILVA, NUNO: “Human health, comfort and performance in relaxation to building certification schemes (Development of human performance index for use in the building certification schemes)”, DTU Civil Engineering, 2015, PhD Thesis.

DI MUOIO, GIOVANNI: “Drying of water based foundry coating: Innovative test, process design and optimization methods”, DTU Mechanical Engineering, 2015, PhD Thesis.

DIN, RAMEEZ UD: “Steam Initiated Surface Modification of Aluminum Alloys”, DTU Mechanical Engineering, 2015, PhD Thesis.

EGELUND, SUNE DAASKOV: “Development of low-cost heterogeneous electrocatalysts for large scale advanced alkaline electrolysers – with focus on oxygen evolution and system performance”, DTU Mechanical Engineering, 2015, PhD Thesis.

FENG, HUAN: “Mesoscale Modeling of Aphalt”, DTU Civil Engineering, 2015, PhD Thesis.

GUDLA, VISWESWARA CHAKRAVARTHY: “Optically Designed Anodised Aluminum Surface, Microstructural and Electrochemical Aspects”, Mechanical Engineering, 2015, PhD Thesis.

HULIN, THOMAS: “Advanced Sandwich Elements for Sustainable Buildings - Integrated Structural and Materials Modelling”, DTU Civil Engineering, 2015, PhD Thesis.

HODICKY, KAMIL: “Analysis and Development of Advanced Sandwich Elements for Sustainable Buildings”, DTU Civil Engineering, 2015, PhD Thesis.

KIAMEHR, SAEED: “Material solutions to Mitigate the Alkali Chloride-Induced High Temperature Corrosion”, DTU Mechanical Engineering, 2015, PhD Thesis.

LOPEZ, ANGEL ALFONSO: “Thermal stability of warm-rolled tungsten”, DTU Mechanical Engineering, 2015, PhD Thesis.

MIKESKA, TOMAS: “Energy performance of ventilation, heating and cooling systems integrated in sandwich panel of high performance concrete”, DTU Civil Engineering, 2015, PhD Thesis.

MORSBØL, JONAS: “Wave Propagation in Pipe-like Structures” Aalborg University, Department of Mechanical and Manufacturing Engineering, 2015, PhD Thesis.

NIE, JINZHE: “Active Indoor air cleaning and heat recovery technology for energy saving of building ventilation”, DTU Civil Engineering, 2015, PhD Thesis.

NGUYEN, NHUT: “Good towers of function fields”, DTU Compute: Department of Applied Mathematics and Computer Science, 2015, PhD Thesis.

NIELSEN, R.B.: “Wave propagation in non-uniform waveguides”, Aalborg University, Department of Mechanical and Manufacturing Engineering, 2015, PhD Thesis.

OMIDVARNIA, FARZANEH: “Design for Micro Manufacturing”, DTU Mechanical Engineering, 2015, PhD Thesis.

PAEGLE, IEVA: “Structural design of Light Weight Composite Floor and Roof Panels”, DTU Civil Engineering, 2015, PhD Thesis.

ROGOWSKA, MAGDALENA: “Understanding of fatigue properties of flexible pipes materials used in oil and gas industry”, DTU Mechanical Engineering, 2015, PhD Thesis.

SMITH, KEVIN MICHAEL: “Model Predictive Control of a Decentralized Unit for Indoor Climate, Energy Performance, and Continuous Commissioning”, DTU Civil Engineering, 2015, PhD Thesis.

SØRENSEN, MORTEN KANNE: “Reuse of resources and materials in the Greenlandic construction industry”, DTU Civil Engineering, 2015, PhD Thesis.

SØRENSEN, SØREN NØRGAARD: “Parameterization for Multi-material Topology Optimization of Composite Structures”, Aalborg University, Department of Mechanical and Manufacturing Engineering, 2015, PhD Thesis.

TANG, TIAN: “Modeling of Soil-Structure-Water Interaction”, DTU Civil Engineering, 2015, PhD Thesis.

VERDINGOVAS, VADIMAS: “Climatic Reliability of Electronics: Early prediction and control of contamination and humidity effects”, DTU Mechanical Engineering, 2015, PhD Thesis.

ZHANG, ZILI: “Passive and Active Vibration Control of Renewable Energy Structures”, Aalborg University, Department of Civil Engineering, 2015, PhD Thesis.

ZIKE, SANITA: “Micro-Scale Experiments and Models for composite Materials with Materials Research”, DTU Wind Energy, 2015, PhD Thesis.

7. DCAMM SEMINARS GIVEN IN 2015

Professor Zi-Kui Liu: CALPHAD, Materials Design, and Materials Genome. 3 November 2015. Director of the NSF Center for Computational Materials Design (CCMD). Department of Materials Science and Engineering, Pennsylvania State University, USA.

Professor Daniel A. Tortorelli: Gradient Based Design Optimization under Uncertainty via Stochastic Expansion Methods. 22 October 2015. Dept. of Mechanical Science and Engineering, University of Illinois at Urbana-Champaign, Urbana, USA.

Professor Yukitaka Murakami: Mechanism of Failure in Fatigue and Tribology from Viewpoint of Small Defects and Small Cracks. 5 October 2015. Kyushu University, Japan.

Professor José L. Escalona: Coupled vehicle/track dynamics with the Moving Modes Method. Aarhus University, Department of Engineering. 1 October 2015. Dept. of Mechanical and Manufacturing Engineering, University of Seville, Spain.

Associate Professor Dan Negrut: On the Use of Computer Modeling to Characterize the Dynamics of Large Particulate Systems. Aarhus University, Department of Engineering 23 September 2015. Department of Mechanical Engineering, University of Wisconsin-Madison, USA

Dr. Anton Tkachuk: Variational selective mass scaling methods for explicit dynamics. 16 September 2015. Institute for Structural Mechanics, University of Stuttgart, Germany.

Professor Anter El-Azab: Computational modelling of mesoscale dislocation patterning and plastic deformation of single crystals. 9 September 2015. School of Materials Engineering, Purdue University, West Lafayette, IN 47907, USA.

Avadh Saxena, Group Leader of the Condensed Matter and Complex Systems Group (T-4): Mesoscopic Modeling of Ferroic and Multiferroic Materials. 3 September 2015. Los Alamo National Lab., USA.

Professor Yean-Der Kuan: Design, Fabrication and System Integration of the Portable dual Cells. 27 August 2015. Dept. of Refrigeration, Air Conditioning and Energy Engineering, National Chin-Yi University of Technology, Taiwan.

Professor Fred van Keulen: Towards “ready-to-print” designs. 19 August 2015. Structural Optimization and Mechanics, TU Delft, Delft, The Netherlands.

Professor Jeffrey W. Kysar: Two-Dimensional Materials: Mechanical Stiffness, Strength and Reliability. 29 June 2015. Dept. of Mechanical Engineering, Columbia University, New York, USA.

PhD, PE Pawel B. Woelke: Practical Failure Modeling for Engineering Structures. 19 June 2015. Weidlinger Associates Inc.; New York, USA.

Assistant Professor, PhD, Ismet Baran: Residual Stresses in Polymer Composites: Numerical Modelling of Process and Product Performance. 17 June 2015. University of Twente, Enschede, The Netherlands.

Professor Paulo Martins: Fracture Loci in Sheet Metal Forming. 16 June 2015. Instituto Superior Tecnico, University of Lisbon, Portugal.

Andrew Kraynik: The micromechanics of random open-cell foam: stiffness and quasi-static crushing. 3 June 2015. Sandia National Laboratories, USA (retired) and University of Erlangen-Nuremberg, Germany.

Associate Professor Lorenzo Bardella: Modelling the torsion of thin metal wires by distortion gradient plasticity. 26 May 2015. University of Brescia, Italy.

Professor K.C. Park: Virtual Testing of Hopkinson's heterogeneous Bars: Fondlest Hope and Reality. 29 April 2015. University of Colorado, Boulder, USA.

Professor Martin E.R.: Shanahan: Wetting Phenomena: Competitive Effects of Surface Tension and Elasticity on Thin and/or Soft Solids. Aarhus University, Department of Engineering. 23 April 2015. Université de Bordeaux, France.

Directeur de Recherche CNRS Olivier Le Matre: Seminar on Modern Scientific Computing Trends. 26 February 2015.

Professor Alan Needleman: The Effect of Rate Dependence on Localization of Deformation and Failure in Progressively Softening Solids. 25 February 2015. Texas A&M University, USA.

Professor Luis Volnei Sudati Sagrilo: Efficient Methods for Fatigue Analysis of Marine Structures. 29 January 2015. Federal University of Rio de Janeiro, Brazil.

8. DCAMM COURSES GIVEN IN 2015

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 Microscopy and Analysis for Materials Research

PhD course on application of x-ray diffraction in materials science

Micro Mechanical Systems Design and Manufacture (PhD summer school)

Nanotribology: Theory and applications

Measurement uncertainty estimation using statistical methods

DTU Compute

Advanced Numerical Methods for Differential Equations

Aalborg University's Doctoral School of Engineering and Science

PhD course on Fracture Mechanics for Laminated Composite Structures

University of Southern Denmark, Odense

Advanced Structural Dynamics, Modelling and Measurements – in cooperation with KTH and Aarhus University

APPENDIX: List of members 2015

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
 SDU-ITI: Dept. of Technology and Innovation

Aage, Niels	(MEK-FAM)	Associate Professor
Adesokan, Bolaji James	(COMPUTE)	PhD student
Alexandersen, Joe	(MEK-FAM)	PhD student
Ambat, Rajan	(MEK-MTU)	Professor
Amini Afshar, Mostafa	(MEK-FVM)	Postdoc
Andersen, Frederik Herland	(MEK-FVM)	PhD student
Andersen, Jakob Axel Bejbro	(MEK-K&P)	Scientific Assistant
Andersen, Lars Vabbersgaard	(CIVIL, AAU)	Associate Professor, PhD
Andersen, Michael Skipper	(M-TECH, AAU)	Associate Professor
Andersen, Michael Styrk	(SDU-ITI)	PhD student
Andersen, Morten Thøtt	(CIVIL, AAU)	PhD student
Andersen, Poul	(MEK-FVM)	Associate Professor
Andersen, Søren Juhl	(WIND)	Postdoc
Andreasen, Casper Schousboe	(MEK-FAM)	Associate Professor
Andreasen, Jens H.	(M-TECH, AAU)	Associate Professor, PhD
Andreasen, Jesper Graa	(MEK-TES)	Scientific Assistant
Andreasen, Mogens Myrup	(MEK-K&P)	Professor Emeritus
Andreasen, Erik	(MEK-FAM)	Postdoc
Andresen, Gorm	(ENG, AU)	Postdoc

Andrillo, Tito	(MEK-MPP)	PhD student
Arora, Vikas	(SDU-ITI)	Associate Professor
Azizi, Reza		Elected member, PhD
Back-Pedersen, Andreas		Elected member, PhD.
Bai, Shaoping	(M-TECH, AAU)	Associate Professor
Bajric, Anela	(MEK-FAM)	PhD student
Bak, Brian Lau Verndal	(M-TECH, AAU)	Postdoc
Balci, Adnan	(COMPUTE)	PhD student
Balling, Ole	(ENG, AU)	Aff. Professor
Bang-Jensen, Jørgen	(SDU-MAT)	Professor
Barington, Alexander	(MEK-MTU)	PhD student
Barlas, Emre	(WIND)	PhD student
Barton, Janice	(M-TECH, AAU)	Professor
Basdasso, Enrico	(MEK-TES)	Scientific Assistant
Baumbach, Jan	(SDU-MAT)	Associate Professor
Bay, Niels	(MEK-MPP)	Professor
Beelen, Peter	(COMPUTE)	Associate Professor
Bellemo, Lorenzo	(MEK-TES)	Scientific Assistant
Bender, Jens Jakob	(M-TECH, AAU)	PhD student
Bendsøe, Martin		Elected member, Dean of Graduate Studies and International Affairs
Berggreen, Christian	(MEK-FAM)	Associate Professor
Biel, Anders	(WIND)	Postdoc
Bingham, Harry B.	(MEK-FVM)	Associate Professor
Biondani, Francesco G.	(MEK-MPP)	PhD student
Bisacco, Giuliano	(MEK-MPP)	Assistant Professor
Bitsche, Robert	(WIND)	Senior Researcher
Blasques, José Pedro	(WIND)	Postdoc
Boelskifte, Per	(MEK-K&P)	Professor
Bohr, Tomas		Elected member, Professor
Boorla, Srinvasa Murthy	(MEK-K&P)	PhD student
Bordo, Kirill V.	(MEK-MTU)	Researcher
Borg, Michael	(WIND)	Postdoc
Borg, Ulrik		Elected member, Senior Engineer
Borgaonkar, Shruti	(MEK-MTU)	Scientific Assistant
Bossolini, Elena	(COMPUTE)	PhD student
Bottoli, Federico	(MEK-MTU)	PhD student
Bræstrup, M. W.		Elected member, PhD.
Brander, David	(COMPUTE)	Associate Professor
Brandt, Anders	(SDU-ITI)	Associate Professor
Branner, Kim	(WIND)	Senior Researcher
Bräuner, Lars	(ENG, AU)	Associate Professor
Bredmose, Henrik	(WIND)	Associate Professor
Brilhuis-Meijer, Ellen	(MEK-K&P)	PhD student
Brink, Bastian	(MEK-MTU)	Postdoc
Brohus, Henrik	(CIVIL, AAU)	Associate Professor, PhD
Brøndsted, Povl	(WIND)	Professor
Brøns, Morten	(COMPUTE)	Professor, PhD
Budzik, Michal	(ENG, AU)	Assistant Professor
Buhl, Thomas	(WIND)	Head of Section
Calaon, Matteo	(MEK-MPP)	Postdoc
Carlsen, Henrik	(MEK-TES)	Professor, Head of Department
Carlsen, Martin	(COMPUTE)	PhD student
Carstensen, Stefan	(MEK-FVM)	Associate Professor
Castro, Miguel Nobre	(M-TECH, AAU)	PhD student
Castro Ardilla, Oscar Gerardo	(WIND)	PhD student
Cederkvist, Jan		Elected member, PhD.

Chapelle, Lucie	(WIND)	PhD student
Chen, Hao	(MEK-FVM)	PhD student
Chirandini, Marco	(SDU-MAT)	Associate Professor
Chivae, Hamid Sarlak	(WIND)	Postdoc
Choobi, Mahsa Seyyedian	(MEK-MPP)	Postdoc
Christensen, Erik Damgaard	(MEK-FVM)	Professor, Head of Section
Christensen, Georg Kronborg	(MEK-K&P)	Associate Professor
Christensen, Ole	(COMPUTE)	Professor, dr.scient.
Christiansen, Esben Toke	(M-TECH, AAU)	PhD student
Christiansen, Jesper De Claville	(M-TECH, AAU)	Professor
Christiansen, Peter	(MEK-MPP)	Researcher
Christiansen, Ramus Ellebæk	(MEK-FAM)	PhD student
Christiansen, Rune Juul	(MEK-MTU)	PhD student
Christiansen, Thomas Lundin	(MEK-MTU)	Senior Scientist
Clausen, Anders	(MEK-FAM)	PhD student
Clausen, Johan Christian	(CIVIL, AAU)	Associate Professor
Clausen, Lasse Røngaard	(MEK-TES)	Assistant Professor
Comminal, Raphael	(MEK-MPP)	Postdoc
Conseil, Helene	(MEK-MTU)	PhD student
Cordtz, Rasmus	(MEK-FM)	Postdoc
Costache, Andrei	(MEK-FAM)	PhD student
Couturier, Philippe	(MEK-FAM)	PhD student
D'Angelo, Greta	(MEK-MPP)	PhD student
Da Fonseca, Cesar Augusto Lampe Linhares	(MEK-FAM)	PhD student
Dag, Kaya Onur	(WIND)	PhD student
Dagnæs-Hansen, Nikolaj Aleksander	(MEK-FAM)	PhD student
Dahl, Kristian Vinter	(MEK-MTU)	Senior Researcher
Dalla, Guiseppe Costa	(MEK-MPP)	PhD student
Dam, Magnus	(COMPUTE)	PhD student
Damkilde, Lars	(CIVIL, AAU)	Professor
Dammann, Bernd	(COMPUTE)	Associate Professor
Danckert, Joachim	(M-TECH, AAU)	Professor Emeritus
Darula, Radoslav	(M-TECH, AAU)	Postdoc
Das, Chitta Ranjan	(MEK-MTU)	Postdoc
Davidsdóttir, Svava	(MEK-MTU)	Postdoc
De Chiffre, Leonardo	(MEK-MPP)	Professor
Debertshäuser, Harald	(WIND)	PhD student
Debrabant, Kristian	(SDU-MAT)	Associate Professor
Della Morte, Michele	(SDU-MAT)	Associate Professor
Didone, Mattia	(MEK-MPP)	PhD student
Diederichs, Annika Martina	(MEK-MTU)	PhD student
Din, Rameez Ud	(MEK-MTU)	Postdoc
Dou, Suguang	(MEK-FAM)	Postdoc
Drozdo, Aleksey	(M-TECH, AAU)	Professor
Duran, Isa Ilkan	(MEK-FVM)	Scientific Assistant
Dzialo, Christine Mary	(M-TECH, AAU)	PhD student
Eder, Martin Alexander	(WIND)	Researcher
Egelund, Arne Jørgensen	(MEK-TES)	Associate Professor
Eifler, Tobias	(MEK-K&P)	Postdoc
Elmegaard, Brian	(MEK-TES)	Associate Professor, Head of Section
Eltard-Larsen, Jørgen	(MEK-FVM)	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)	Associate Professor
Eriksen, René Lyngé	(SDU-ITI)	Associate Professor

Farshidi, Arash	(MEK-FAM)	PhD student
Fasano, Andrea	(MEK-MPP)	PhD student
Fedorov, Vladimir	(WIND)	Researcher
Felter, Christian Lotz	(MEK-FAM)	Postdoc
Feng, Ju	(WIND)	Postdoc
Frandsen, Niels Morten Marselv	(MEK-FAM)	PhD student
Fredsøe, Jørgen	(MEK-FVM)	Professor Emeritus
Frier, Christian	(CIVIL, AAU)	Associate Professor, PhD
Fuhrman, David R.	(MEK-FVM)	Associate Professor
Gallego-Calderon, Juan	(WIND)	Postdoc
Garcia, Néstor Ramos	(WIND)	Researcher
Gervang, Bo	(ENG, AU)	Associate Professor
Ghadirian, Amin	(WIND)	PhD student
Giannakas, Nikolaos	(MEK-MPP)	Scientific Assistant
Glud, Jens Ammitzbøll	(M-TECH, AAU)	PhD student
Gogebeur, Yuri	(SDU-MAT)	Associate Professor
Goodsite, Michael Evan	(SDU-ITI)	Professor, Head of Department
Graeme, Keith		Elected member
Gravesen, Jens	(COMPUTE)	Associate Professor, dr.phil
Greiner, Martin	(ENG, AU)	Professor
Gudla, Visweswara	(MEK-MTU)	Postdoc
Gunneskov, Ole		Elected member, PhD.
Guolaugsson, Tómas Vignir	(MEK-K&P)	PhD student
Göhler, Simon Moritz	(MEK-K&P)	PhD student
Haglund, Fredrik	(MEK-TES)	Associate Professor
Hald, John	(MEK-MTU)	Professor MSA
Halkjær, Søren		Elected member, PhD
Hansen, Asger Bendix	(MEK-FVM)	PhD student
Hansen, Claus Thorp	(MEK-K&P)	Associate Professor
Hansen, Hans Nørgaard	(MEK-MPP)	Professor, Head of Section
Hansen, Kurt Schaldemose	(WIND)	Senior Researcher
Hansen, Martin Otto Laver	(WIND)	Associate Professor
Hansen, Morten H.	(WIND)	Professor
Hansen, Per Chr.	(COMPUTE)	Professor, dr. techn.
Haselbach, Philipp	(WIND)	PhD student
Hassing, Henrik		Elected member, PhD
Hattel, Jesper Henri	(MEK-MPP)	Professor
Heilmann, Irene	(COMPUTE)	PhD student
Heinen, Frederik	(M-TECH, AAU)	PhD student
Henningensen, Casper Schytte	(MEK-FVM)	PhD student
Henriksen, Christian	(COMPUTE)	Associate Professor, PhD
Henriksen, Søren Randrup	(M-TECH, AAU)	PhD student
Hjorth, Poul	(COMPUTE)	Associate Professor, PhD
Høgh, Jacob Herold	(MEK-FAM)	Scientific Assistant
Høgsberg, Jan Becker	(MEK-FAM)	Associate Professor
Horsewell, Andy	(MEK-MTU)	Professor
Hougaard, Peter		Elected member, PhD
Howard, Thomas J.	(MEK-K&P)	Associate Professor
Huang, Fenix Wenda	(SDU-MAT)	Assistant Professor
Ibsen, Lars Bo	(CIVIL, AAU)	Professor, PhD
Islam, Mohammad Aminul	(MEK-MPP)	Senior Researcher
Ivarsson, Anders	(MEK-TES)	Associate Professor
Jabbarineham, Mirmasoud	(MEK-MPP)	Researcher
Jacobsen, Christian Brix		Elected member, PhD.
Jacobsen, Henrik S.	(MEK-TES)	Scientific Assistant
Jakobsen, Johnny	(M-TECH, AAU)	Associate Professor
Jakobsen, Mads Sielemann	(COMPUTE)	PhD student

Jellesen, Morten Stendahl	(MEK-MTU)	Senior Researcher
Jensen, Bjarne	(MEK-FVM)	Postdoc
Jensen, Erik Appel	(M-TECH, AAU)	Associate Professor
Jensen, Henrik Myhre	(ENG, AU)	Professor
Jensen, Jakob Søndergaard		Elected member, Professor, PhD
Jensen, Jonas Kjær	(MEK-TES)	Scientific Assistant
Jensen, Jørgen Juncher	(MEK-FVM)	Professor, dr. techn.
Jensen, Lars Rosgaard	(M-TECH, AAU)	Associate Professor
Jespersen, Freja Nygaard	(MEK-MTU)	PhD student
Jespersen, Kirstine Munk	(WIND)	PhD student
Johannesson, Björn	(CIVIL)	Associate Professor
Johansson, Jens	(SDU-ITI)	Assistant Professor
Jönsson, Jeppe	(CIVIL)	Professor
Josh, Salil	(MEK-MTU)	PhD student
Jørgensen, Jeppe Bjørn	(WIND)	PhD student
Jørgensen, John Bagterp	(COMPUTE)	Assistant Professor
Jørgensen, Mads Carsten	(MEK-TES)	PhD student
Jørgensen, Martin Heide	(M-TECH, AAU)	Head of Department
Jurado, Antonio	(WIND)	PhD student
Juul, Kristian Jørgensen	(MEK-FAM)	PhD student
Juul, Nicolai Ytterdal	(MEK-MTU)	PhD student
Kærn, Martin Ryhl	(MEK-TES)	Researcher
Karamehmedovic, Mirza	(COMPUTE)	Associate Professor
Karatzas, Vasileios	(MEK-FAM)	Scientific Assistant
Karvounis, Nikkolas	(MEK-FVM)	PhD student
Kepler, Jørgen	(M-TECH, AAU)	Associate Professor
Kermani, Nasrin Arjomand	(MEK-TES)	PhD student
Kimiaiefar, Amin	(M-TECH, AAU)	PhD student
Kliem, Mathias	(MEK-FAM)	PhD student
Klit, Peder	(MEK-FAM)	Professor, PhD
Knudsen, Kim	(COMPUTE)	Associate professor
Knudsen, Lars Ramkilde	(COMPUTE)	Professor
Knudsen, Thomas S.		Elected member, PhD.
Kontos, Stavros	(MEK-FVM)	PhD student
Koss, Holger	(CIVIL)	Associate Professor
Krenk, Steen	(MEK-FAM)	Professor, dr.techn.
Kristensen, Anders Schmidt	(CIVIL, AAU)	Associate Professor
Kristiansen, Ewa	(M-TECH, AAU)	Assistant Professor
Kristiansen, Kristian Uldall	(COMPUTE)	Assistant Professor
Labanda, Susana Rojas	(WIND)	Postdoc
La Seta, Angelo	(MEK-TES)	Scientific Assistant
Lampert, Felix	(MEK-MTU)	PhD student
Larsen, Jan Balle		Elected member, PhD.
Larsen, Poul Scheel	(MEK-FVM)	Professor Emeritus, PhD
Larsen, Raino Mikael	(M-TECH, AAU)	Associate Professor
Larsen, Rasmus	(COMPUTE)	Professor, Head of Department
Lauridsen, Jonas	(MEK-FAM)	PhD student
Lazarov, Boyan Stefanov	(MEK-FAM)	Senior Researcher, PhD
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)	AC-Tap
Lian, Haojie	(MEK-FAM)	Postdoc
Lilholt, Hans	(WIND)	Chief Scientist
Lindgaard, Esben	(M-TECH, AAU)	Associate Professor
Lind-Nielsen, Birger		Elected member, PhD.

Løkkegaard, Martin	(MEK-K&P)	PhD student
Lund, Erik	(M-TECH, AAU)	Professor, PhD
Lund, Ivar	(SDU-ITI)	Associate Professor
Lundgaard, Christian	(MEK-FAM)	PhD student, PhD
Lützen, Marie	(SDU-ITI)	Associate Professor
Lythcke-Jørgensen, Christoffer	(MEK-TES)	PhD student
Madruza, Danial González	(MEK-MPP)	Postdoc
Madsen, Bo	(WIND)	Senior Scientist
Madsen, Per A.	(MEK-FVM)	Professor, dr.techn.
Madsen, Søren Peder	(ENG, AU)	Associate Professor
Mahshid, Rasoul	(MEK-MPP)	PhD student
Manca, Marcello	(MEK-FAM)	Scientific Assistant
Mandviwalla, Xerxes	(MEK-FVM)	PhD student
Manouchehr, Mehrtash	(MEK-FAM)	PhD student
Margalit, Jonatan	(MEK-FVM)	PhD student
Marhöfer, David Maximilian	(MEK-MPP)	PhD student
Markussen, Wiebke Brix	(MEK-TES)	Associate Professor
Markvorsen, Steen	(COMPUTE)	Professor, dr. techn., PhD
Marla, Deepak	(MEK-MPP)	Postdoc
Marschler, Christian	(COMPUTE)	PhD student
Mazucco, Andrea	(MEK-TES)	PhD student
McAloone, Tim C.	(MEK-K&P)	Associate Professor, PhD
Sofia da Silva Ferreira Pinto Melro, Liliana	(M-TECH, AAU)	PhD student
Meroni, Andrea	(MEK-TES)	PhD student
Meyer, Knud Erik	(MEK-FVM)	Associate Professor, PhD
Mieritz, Andreas Falkenstrøm	(COMPUTE)	PhD student
Mikkelsen, Lars Pilgaard	(WIND)	Associate Professor
Mikkelsen, Robert Flemming	(WIND)	Senior Researcher
Miraglia, Simona	(CIVIL)	Postdoc
Mischkot, Michael	(MEK-MPP)	PhD student
Mishnaevsky, Leon	(WIND)	Senior Scientist, Dr.-ing.habil
Modi, Anish	(MEK-TES)	Postdoc
Mohaghegh, Kamran	(MEK-MPP)	Postdoc
Mohammed, Ali	(MEK-MPP)	PhD student
Mohanty, Sankhya	(MEK-MPP)	Postdoc
Møller, Per	(MEK-MTU)	Professor
Møller-Andersen, Jakob	(COMPUTE)	PhD student
Montagud, Maria Engracia Mondejar	(MEK-TES)	Postdoc
Montgomery, Melanie	(MEK-MTU)	Senior Researcher
Mortensen, Niels Henrik	(MEK-K&P)	Professor, Head of Section
Nasirabadi, Parizad Shojaee	(MEK-MPP)	PhD student
Natarajan, Anand	(WIND)	Senior Researcher
Nellemann, Christopher	(MEK-FAM)	PhD student
Neugebauer, Line Maria	(MEK-K&P)	PhD student
Nguyen, Nhut	(COMPUTE)	PhD student
Nguyen, Tuong-Van	(MEK-TES)	Postdoc
Nielsen, Bo Bjerregaard	(MEK-FAM)	PhD student
Nielsen, Chris Valentin	(MEK-MPP)	Postdoc
Nielsen, Claus Suldrup	(MEK-TES)	Postdoc
Nielsen, Izabela Ewa	(M-TECH, AAU)	Associate Professor
Nielsen, Jens Henrik	(CIVIL)	Assistant Professor
Nielsen, Kim Lau	(MEK-FAM)	Associate Professor
Nielsen, Leif Otto	(CIVIL)	Associate Prof. Emeritus
Nielsen, Niels-Jørgen Rishøj		Elected member, PhD.
Nielsen, Peter Søe	(MEK-MPP)	Postdoc
Nielsen, Søren R.K.	(CIVIL, AAU)	Professor, dr.techn.

Nielsen, Ulrik Dam	(MEK-FVM)	Assistant Professor
Niordson, Christian	(MEK-FAM)	Associate Professor, PhD, Head of Section
Nørbjerg, Toke Bjerge	(COMPUTE)	PhD student
Nørgaard, Sebastian Arlund	(MEK-FAM)	PhD student
Nørtoft, Peter	(COMPUTE)	Assistant Professor
Nygaard, Jens Vinge	(ENG, AU)	Head of Mechanical Engineering
O'Hare, Jamie Alexander	(MEK-K&P)	Postdoc
Oest, Jacob	(M-TECH, AAU)	PhD student
Okoro, Sunday Chukwudi	(MEK-MTU)	PhD student
Okulov, Valery	(WIND)	Senior Researcher
Olafsson, Olafur Magnus	(MEK-FAM)	Scientific Assistant
Olesen, Christian Gammelgaard	(M-TECH, AAU)	Associate Professor
Olesen, John Forbes	(CIVIL)	Associate Professor
Olhoff, Niels	(M-TECH, AAU)	Professor Emeritus
Omidvarnia, Farzaneh	(MEK-MPP)	PhD student
Ommen, Torben Schmidt	(MEK-TES)	Postdoc
Overgaard, Lars Chr. Terndrup	(M-TECH, AAU)	Associate Professor
Øye, Stig	(WIND)	Senior Researcher
Ózkil, Ali Gürçan	(MEK-K&P)	Assistant Professor
Pagoropoulos, Aris	(MEK-K&P)	PhD student
Pang, Kar Mun	(MEK-TES)	Researcher
Pantleon, Karen	(MEK-MTU)	Associate Professor
Pantleon, Wolfgang	(MEK-MTU)	Associate Professor
Pedersen, David Bue	(MEK-MPP)	Researcher
Pedersen, Michael	(COMPUTE)	Professor, dr.techn.
Pedersen, Niels L.	(MEK-FAM)	Associate Professor, dr.techn.
Pedersen, Pauli	(MEK-FAM)	Professor Emeritus, dr.techn., HD
Pedersen, Preben Terndrup	(MEK-FVM)	Professor Emeritus, 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
Petkov, Kiril	(MEK-MPP)	PhD student
Pica, Claudio	(SDU-MAT)	Professor MSO
Pierobon, Leonardo	(MEK-TES)	Postdoc
Pigosso, Daniela Cristina Antelmi	(MEK-K&P)	Postdoc
Pilný, Lukás	(MEK-MPP)	Postdoc
Piotrowska, Kamila	(MEK-MTU)	PhD student
Poulios, Konstantinos	(MEK-FAM)	Postdoc
Poulsen, Peter Noe	(CIVIL)	Associate Professor
Puthumana, Govindan	(MEK-MPP)	Postdoc
Pyrz, Ryszard	(M-TECH, AAU)	Professor Emeritus
Quagliotti, Danilo	(MEK-MPP)	Scientific Assistant
Rasmussen, Henrik K.	(MEK-MPP)	Associate Professor, PhD
Rasmussen, John	(M-TECH, AAU)	Professor
Rauhe, Jens Christian M	(M-TECH, AAU)	Associate Professor
Ravendran, Rathesan	(M-TECH, AAU)	PhD student
Ravn, Poul Martin	(MEK-K&P)	PhD student
Ravn-Jensen, Kim		Elected members, PhD.
Read, Robert	(MEK-FVM)	Senior Researcher
Reboucas, Geraldo	(MEK-FAM)	PhD student
Reck, Mads		Elect. Mem., CFD Specialist – aerodyn.
Redanz, Pia		Elected member, Senior Engineer
Regener, Pelle Bo	(MEK-FVM)	PhD student
Reidys, Christian	(SDU-MAT)	Professor

Rezaei, Mohsen	(MEK-FAM)	Researcher
Richelsen, Ann Bettina	(MEK-FAM)	Professor, PhD
Røgen, Peter	(COMPUTE)	Associate Professor, PhD
Rokni, Masoud	(MEK-TES)	Associate Professor
Røn, Troels	(MEK-MTU)	Postdoc
Rootzén, Helle	(COMPUTE)	Professor
Rosbjerg, Dan		Elected members, Professor, dr.techn.
Saettone, Simone	(MEK-FVM)	PhD student
Sala, Maurizio	(MEK-FAM)	Scientific Assistant
Salazar, Jorge A. González	(MEK-FAM)	PhD student
Sandal, Kasper	(WIND)	PhD student
Sankaranarayanan, Rishikesan	(MEK-MTU)	Postdoc
Sanporean, Catalina-Gabriela	(M-TECH, AAU)	Assistant Professor
Santillán, Arturo Orozco	(SDU-ITI)	Associate Professor
Santos, Ilmar F.	(MEK-FAM)	Professor, Dr.-Ing.
Saseendran, Vishnu	(MEK-FAM)	PhD student
Saxena, Prateek	(MEK-MPP)	PhD student
Schilder, Frank	(COMPUTE)	Assistant Professor, dr.phil.
Schjødt-Thomsen, Jan	(M-TECH, AAU)	Associate Professor
Schløer, Signe	(WIND)	Postdoc
Schmidt, Dorte S.	(SDU-ITI)	Associate Professor
Schmiegel, Jürgen	(ENG, AU)	Associate Professor
Schramm, Jesper	(MEK-TES)	Professor MSO
Schroll, Achim	(SDU-MAT)	Professor, dr.sc. Math.
Sassarego, Matias	(WIND)	PhD student
Shen, Wen Zhong	(WIND)	Professor
Sigmund, Ole	(MEK-FAM)	Professor, dr.techn.
Sigurjonsson, Hafthor Ægir	(MEK-TES)	Scientific Assistant
Sivebæk, Ion Marius	(MEK-MPP)	Associate Professor, PhD
Somers, Marcel A. J.	(MEK-MTU)	Professor, Head of section
Sonne, Mads Rostgaard	(MEK-MPP)	Researcher
Sørensen, Bent	(WIND)	Professor MSO, Head of Section
Sørensen, Claus Aage Grøn	(ENG, AU)	Senior Researcher
Sørensen, Jens Nørkær	(WIND)	Professor
Sørensen, John Dalsgaard	(CIVIL, AAU)	Professor, PhD
Sørensen, Mads Peter	(COMPUTE)	Professor MSO
Sørensen, Niels Jakob		Elected member, PhD
Sørensen, René	(M-TECH, AAU)	Postdoc
Sørensen, Søren Nørgaard	(M-TECH, AAU)	Assistant Professor
Sorokin, Sergey	(M-TECH, AAU)	Professor
Sorokin, Vladislav	(MEK-FAM)	Postdoc
Stang, Henrik	(CIVIL)	Vice director, Professor
Starke, Jens	(COMPUTE)	Associate Professor, dr.rer.nat.
Stäblein, Alexander	(WIND)	PhD student
Steenstrup, Kasper Hornbak	(COMPUTE)	PhD student
Sterndorff, Martin J.		Elected member, PhD.
Stolfi, Alessandro	(MEK-MPP)	PhD student
Stolpe, Mathias	(WIND)	Senior Researcher, dr.techn.
Stoltze, Jonas Steensgaard	(M-TECH, AAU)	PhD student
Sulaiman, Mohd Hafis	(MEK-MPP)	Scientific Assistant
Sumer, B. Mutlu	(MEK-FVM)	Professor
Svenningsgaard, Jon	(M-TECH, AAU)	PhD student
Svensson, Eilif		Elected member, PhD
Taher, Siavash Talebi	(M-TECH, AAU)	Research Assistant
Talat, Syed Ali	(M-TECH, AAU)	Research Assistant
Tejada, Alejandro de Miguel	(MEK-FAM)	Postdoc
Thoft-Christensen, Palle	(CIVIL, AAU)	Professor Emeritus, PhD

Thomassen, Carsten	(COMPUTE)	Professor
Thomsen, Jon Juel	(MEK-FAM)	Associate Professor, dr.techn.
Thomsen, Ole Thybo	(M-TECH, AAU)	Professor
Thöns, Sebastian	(CIVIL)	Associate Professor
Thorborg, Jesper	(MEK-MPP)	Senior Researcher
Tidemann, Lasse	(MEK-FAM)	PhD student
Tiedje, Niels Skat	(MEK-MPP)	Associate Professor, PhD
Toftegaard, Helmuth L.	(WIND)	Senior Scientist
Tosello, Guido	(MEK-MPP)	Associate Professor
Tvergaard, Viggo	(MEK-FAM)	Professor Emeritus, dr.techn.
Vásquez, Fabian G. Pierart	(MEK-FAM)	PhD student
Vedel-Smith, Nikolaj Kjelgaard	(MEK-MPP)	Postdoc
Vedsted, Malene Hovgaard	(MEK-FVM)	PhD student
Velte, Clara	(MEK-FVM)	Associate Professor
Verdingovas, Vadimas	(MEK-MTU)	Postdoc
Villa, Matteo	(MEK-MTU)	Postdoc
Voigt, Andreas Jauernik	(MEK-FAM)	PhD student
Walther, Jens Honore	(MEK-FVM)	Professor MSO
Wang, Fengwen	(MEK-FAM)	Senior Researcher
Weldeyesus, Alemseged G.	(WIND)	Postdoc
Westlye, Frederik Ree	(MEK-TES)	PhD student
Wiggers, Sine Leergaard	(SDU-ITI)	Associate Professor
Winther, Grethe	(MEK-MTU)	Associate Professor, dr.techn.
Wöhner, Timo	(MEK-MPP)	PhD student
Wu, Duoli	(MEK-MTU)	PhD student
Wu, Guanglei	(M-TECH, AAU)	Postdoc
Üstünyagiz, Esmeray	(MEK-MPP)	PhD student
Zahrani, Esmaeil Ghadiri	(MEK-MPP)	PhD student
Zhang, Xuping	(ENG, AU)	Assistant Professor
Zhang, Yang	(MEK-MPP)	Senior Researcher
Zhou, Mingdong	(MEK-FAM)	Postdoc
Zhu, Wei Jun	(WIND)	Senior Researcher

