Publications:

Screening wells by multi-scale grids for multi-stage Markov Chain Monte Carlo simulation
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Multilevel techniques for Reservoir Simulation

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A robust WENO scheme for nonlinear waves in a moving reference frame

A stabilised nodal spectral element method for fully nonlinear water waves

DeRisk - Accurate prediction of ULS wave loads. Outlook and first results

Development of a numerical modelling tool for combined near field and far field wave transformations using a coupling of potential flow solvers
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SPE-178428-PA
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(DCAMM Special Report; No. S217).
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Engsig-Karup, A. P., Bigoni, D. & Eskilsson, C. 2015
Publication: Research - peer-review › Poster – Annual report year: 2015

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Pawlak, W., Glimberg, S. L. & Engsig-Karup, A. P. 2015
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On Devising Boussinesq-type Equations with Bounded Eigenspectra: Two Horizontal Dimensions
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Publication: Research › Conference abstract for conference – Annual report year: 2015
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Publication: Research - peer-review › Journal article – Annual report year: 2014

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Briefly on grid generation
Publication: Research - peer-review › Book chapter – Annual report year: 2008

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Publication: Research - peer-review › Journal article – Annual report year: 2006

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2005
Coastal and ocean wave modelling
Publication: Research › Poster – Annual report year: 2005

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Hicks, J. B. H., Bingham, H. B., Engsig-Karup, A. P., Lindberg, O. & Read, R.
15/09/2017 → 14/09/2020
Project: PhD

Architecture acoustics: an improved design process using integrated hybrid room acoustic simulations
Pind Jørgensson, F. K., Jeong, C., Engsig-Karup, A. P. & Strømann-Andersen, J. B.
01/11/2016 → 31/10/2019
Project: PhD

High Performance Computational Methods for Low-Noise Supercontinuum Lasers for Optical Coherence Tomography Systems
Mieritz, A. F., Sørensen, M. P., Dammann, B. & Engsig-Karup, A. P.
01/10/2015 → 01/01/2019
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Optimal Control of PDE-Constrained Systems
Christiansen, L. H., Jørgensen, J. B., Engsig-Karup, A. P. & Pedersen, M.
15/09/2015 → 25/01/2019
Project: PhD

Low noise femtosecond supercontinuum sources
Bravo Gonzalo, I., Bang, O., Engsig-Karup, A. P. & Sørensen, M. P.
01/09/2015 → 31/08/2018
Project: PhD

Stochastic Simulations for Uncertainty Quantification of wave loads
Jensen, C. L., Engsig-Karup, A. P., Bigoni, D. & Bredmose, H.
01/08/2015 → 31/10/2015
Project: PhD

Multiscale modelling for reservoir-well simulation at DTU compute
Quadrio, N., Engsig-Karup, A. P., Byrne, M. & Glimberg, S. L.
01/11/2014 → 31/07/2017
Project: PhD

Fast Methods for Predicting the Added Resistance on Ships
01/09/2013 → 09/12/2016
Project: PhD

Efficient Large-Scale Reservoir Simulation on Modern Many-Core Hardware
01/04/2013 → 30/09/2016
Optimization Algorithms for Experimental Design, Parameter Estimation, and Control of Dynamic Systems
Frison, G., Jørgensen, J. B., Poulsen, N. K., Engsig-Karup, A. P., Axehill, D. & Ferreau, H. J.
01/10/2012 → 20/04/2016
Project: PhD

Large-Scale Computational Electromagnetics for Reflector Antenna Analysis
15/12/2011 → 19/03/2015
Project: PhD

Uncertainty Quantification for advanced engineering applications
15/12/2011 → 19/03/2015
Project: PhD

Modelling Nonlinear Wave Interaction with Floating Ocean Energy Devices
01/10/2010 → 01/09/2015
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Adaptive Simulations of Nonlinear Structures In Magnetized Plasma
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15/09/2010 → 24/10/2014
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Scientific GPU Computing for PDE Solvers
Glimberg, S. L., Engsig-Karup, A. P., Dammann, B., Walther, J. H., Cai, X. & Olson, L.
01/05/2010 → 12/12/2013
Project: PhD

Computation of Superconducting Wind Turbine Generators
15/12/2008 → 24/05/2012
Project: PhD

Multiscale Simulation of Wave Forces on Ocean Energy Devices
15/08/2008 → 28/08/2012
Project: PhD

Numerical Methods for Simulation and Optimization of Enhanced Oil Recovery Methods
Völcker, C., Jørgensen, J. B., Thomsen, P. G., Engsig-Karup, A. P., Foss, B. A. & Kristensen, M. R.
01/01/2008 → 24/08/2012
Project: PhD

Efficient solutions to the exact Laplace problem for nonlinear water waves
Engsig-Karup, A. P. & Bingham, H. B.
01/08/2006 → 15/08/2008
Project

A Multidomain Spectral Method for Nonlinear Water Waves
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