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Publication: Research - peer-review › Paper – Annual report year: 2012

Towards fault-tolerant decision support systems for ship operator guidance
Publication: Research - peer-review › Journal article – Annual report year: 2012

Towards Real Time Simulation of Ship-Ship Interaction
Publication: Research › Article in proceedings – Annual report year: 2012

Transient waves generated by a moving bottom obstacle: a new near-field solution
Publication: Research - peer-review › Journal article – Annual report year: 2012
Turbulence modelling in the two-dimensional vortex-in-cell method
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2012

Ultra-high-speed digital in-line holography system applied to particle-laden supersonic underexpanded jet flows
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Wave interaction with large roughness elements on an impermeable sloping bed
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Wave liquefaction in soils with clay content
Kirca, Ö., Sumer, B. M. & Fredsøe, J. 2012 Proceedings of the 8th International Conference on Coastal and Port Engineering in Developing Countries. 8 p.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Wind Forces on Container Ships
Publication: Research › Journal article – Annual report year: 2012

Wind-Tunnel Investigation of Wind Loads on a Post-Panamax Container Ship as a Function of the Container Configuration on Deck
Andersen, I. M. V. 2012 11th International Marine Design Conference. 18 p.
Publication: Research › Article in proceedings – Annual report year: 2012

Scour Protection of Offshore Wind Farms
Publication: Research › Ph.D. thesis – Annual report year: 2012

Composite modelling of interactions between beaches and structures
Publication: Research - peer-review › Journal article – Annual report year: 2012

Environmental performance evaluation of RoPax ferries
Publication: Research › Journal article – Annual report year: 2012

Environmental Performance Evaluation of Ro-Ro Passenger Ferry Transportation
Publication: Research - peer-review › Conference article – Annual report year: 2012

High Spatial Resolution Imaging of a Supersonic Underexpanded Jet Impinging on a Flat Plate
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2012

Influence of piston position on the scavenging and swirling flow in two-stroke diesel engines
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2011

Molecular Dynamics Studies of Nanofluidic Devices
Publication: Research › Ph.D. thesis – Annual report year: 2012

Numerical Modeling of Shoreline Undulations
Publication: Research › Ph.D. thesis – Annual report year: 2011

Planar measurements of velocity and concentration of turbulent mixing in a T-junction
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2012

Coherent structures in wave boundary layers. Part 1. Oscillatory motion
Publication: Research - peer-review › Journal article – Annual report year: 2010

Coherent structures in wave boundary layers. Part 2. Solitary motion
Publication: Research - peer-review › Journal article – Annual report year: 2010

The effectiveness of moving masses in reducing the roll motion of floating vessels
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Multi Vessel interaction in shallow water
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Filter-feeding zoobenthos and importance of hydrodynamics in the shallow Odense Fjord (Denmark) - earlier and recent studies, perspectives and modelling
Publication: Research - peer-review › Journal article – Annual report year: 2007

Shape and Dimensions of Ripples
Publication: Research › Report – Annual report year: 2007
Numerical Study on the Effect of Buffer Bow Structure in Ship-to-ship Collisions

Projects:

Reconfigurable Modular Robotic System for Aquatic Environment
Galeazzi, R., Christensen, D. J., Mariani, P., Visser, A., Özkil, A. G. & Nielsen, U. D.
01/02/2016 → 31/01/2018
Project

State-of-the-art laser Doppler systems development for turbulence measurements
Yaacob, M. R., Velte, C. M., Meyer, K. E. & Buchhave, P.
01/06/2015 → 31/05/2018
Project

Experimental and theoretical investigations of turbulent axi-symmetric jets
Hodzic, A., Velte, C. M., Meyer, K. E. & George, W. K.
15/04/2015 → 14/04/2018
Project

Dynamic Propeller Shaft Speed Control
Galeazzi, R. & Andersen, P.
01/04/2015 → 01/05/2017
Project

Development of Improved Cavitation and Noise Radiation Prediction Methods for Marine Propellers
Mirsadraee, Y., Andersen, P., Schöön, J. & Walther, J. H.
01/03/2015 → 31/03/2018
Project: PhD

Assessment, STrategy And Risk Reduction for Tsunamis in Europe
Fuhrman, D. R., Sumer, B. M. & Eltard-Larsen, B.
01/11/2013 → 01/11/2016
Project

State-of-the-art laser Doppler system for turbulence measurements
Velte, C. M. & Buchhave, P.
23/10/2013 → 31/12/2015
Project

Innovative Multi-purpose offshore platforms: planning, design and operation
01/01/2012 → 31/12/2015
Project

Characterization of vortex generator induced structures in high Reynolds number wall bounded flow
Velte, C. M., Braud, C., Foucaut, J. M. & Cuvier, C.
01/04/2011 → 30/06/2012
Project

Fluid Dynamic Characterization of Vortex Generators and Two-dimensional Turbulent Wakes
Fernandez Gamiz, U., Egusquiza Estevez, E. & Velte, C. M.
01/10/2010 → 26/11/2013
Project
Optimization of vortex generators on wind turbine blades
Velte, C. M., Hansen, M. O. L., Okulov, V., Sørensen, N. N. & Fuglsang, P.
01/02/2010 → 31/07/2013
Project

Activities:

Ocean Dynamics (Journal)
Fuhrman, D. R. (Reviewer)
2018
Activity: Research › Journal editor

Coastal Engineering (Journal)
Fuhrman, D. R. (Reviewer)
2017 → …
Activity: Research › Journal editor

Journal of Waterway, Port, Coastal, and Ocean Engineering (Journal)
Fuhrman, D. R. (Reviewer)
2017 → …
Activity: Research › Journal editor

Response prediction of vessel motions and sea state estimation from ships
Nielsen, U. D. (Guest lecturer)
17 Nov 2017
Activity: Talks and presentations › Conference presentations

Shipboard sea state estimation based on wave‐induced response measurements
Nielsen, U. D. (Guest lecturer)
26 Sep 2017
Activity: Talks and presentations › Conference presentations

Complex Motion in Fluids Summer School
24 Sep 2017 → 29 Sep 2017
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Coastal Dynamics 2017
Fuhrman, D. R. (Organizer)
12 Jun 2017 → 16 Jun 2017
Activity: Attending an event › Participating in or organising a conference

Oral presentation
Vested, M. H. (Guest lecturer)
17 May 2017
Activity: Talks and presentations › Conference presentations

Oral presentation
Vested, M. H. (Guest lecturer)
24 Apr 2017 → 28 Apr 2017
Activity: Talks and presentations › Conference presentations
Harmonic Polynomial Cell method with Immersed Boundaries
Shao, Y. (Speaker)
3 Apr 2017 → 7 Apr 2017
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

New Concepts for Shipboard Sea State Estimation
Nielsen, U. D. (Speaker)
1 Mar 2016
Activity: Talks and presentations › Conference presentations

Applied Ocean Research (Journal)
Fuhrman, D. R. (Reviewer)
2015 → …
Activity: Research › Journal editor

Journal of Offshore Mechanics and Arctic Engineering (Journal)
Fuhrman, D. R. (Reviewer)
2015 → …
Activity: Research › Journal editor

Maritime Engineering Education (at DTU): What are the challenges?
Nielsen, U. D. (Lecturer)
9 Oct 2015
Activity: Talks and presentations › Conference presentations

Response-based sea state estimation for onboard DSS - Safe and Efficient Marine Operations
Nielsen, U. D. (Invited speaker)
13 Nov 2014
Activity: Talks and presentations › Conference presentations

European Maritime Day
Christensen, E. D. (Speaker)
19 May 2014 → 20 May 2014
Activity: Talks and presentations › Conference presentations

Prizes:

Green Challenge 2014
Malene Hovgaard Vested (Recipient), 27 Jun 2014
Prize: Prizes, scholarships, distinctions

Outstanding Reviewer Award
David R. Fuhrman (Recipient), 2015
Prize: Prizes, scholarships, distinctions