Ulrik Dam Nielsen

List of Publications by Year
in descending order

58 papers	945 citations	471509 17 h-index	477307 29 g-index
58 all docs	58 docs citations	58 times ranked	318 citing authors

#	Article	IF	Citations
1	Estimations of on-site directional wave spectra from measured ship responses. Marine Structures, 2006, 19, 33-69.	3.8	118
2	A concise account of techniques available for shipboard sea state estimation. Ocean Engineering, 2017, 129, 352-362.	4.3	68
3	Sea state estimation from an advancing ship â€“ A comparative study using sea trial data. Applied Ocean Research, 2012, 34, 33-44.	4.1	50
4	Sea state estimation using vessel response in dynamic positioning. Applied Ocean Research, 2018, 70, 76-86.	4.1	46
5	Introducing two hyperparameters in Bayesian estimation of wave spectra. Probabilistic Engineering Mechanics, 2008, 23, 84-94.	2.7	44
6	Sea state estimation using multiple ships simultaneously as sailing wave buoys. Applied Ocean Research, 2019, 83, 65-76.	4.1	39
7	Response-based estimation of sea state parametersâ€”influence of filtering. Ocean Engineering, 2007, 34, 1797-1810.	4.3	37
8	Onboard monitoring of fatigue damage rates in the hull girder. Marine Structures, 2011, 24, 182-206.	3.8	37
9	Estimation of wind sea and swell using shipboard measurements â€“ A refined parametric modelling approach. Applied Ocean Research, 2016, 54, 73-86.	4.1	36
10	A brute-force spectral approach for wave estimation using measured vessel motions. Marine Structures, 2018, 60, 101-121.	3.8	32
11	A novel approach for navigational guidance of ships using onboard monitoring systems. Ocean Engineering, 2011, 38, 444-455.	4.3	27
12	The wave buoy analogy â€” estimating high-frequency wave excitations. Applied Ocean Research, 2008, 30, 100-106.	4.1	23
13	Transformation of a wave energy spectrum from encounter to absolute domain when observing from an advancing ship. Applied Ocean Research, 2017, 69, 160-172.	4.1	23
14	Tuning of transfer functions for analysis of waveâ€“ship interactions. Marine Structures, 2021, 79, 103029.	3.8	23
15	Estimation of sea state parameters by the wave buoy analogy with comparisons to third generation spectral wave models. Ocean Engineering, 2020, 216, 107781.	4.3	19
16	Response predictions using the observed autocorrelation function. Marine Structures, 2018, 58, 31-52.	3.8	18
17	Prediction of shipsâ€™ speed-power relationship at speed intervals below the design speed. Transportation Research, Part D: Transport and Environment, 2021, 99, 102996.	6.8	18
18	Ocean wave spectrum estimation using measured vessel motions from an in-service container ship. Marine Structures, 2020, 69, 102682.	3.8	17

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19	Towards fault-tolerant decision support systems for ship operator guidance. Reliability Engineering and System Safety, 2012, 104, 1-14.	8.9	16
20	Real-time detection of transverse stability changes in fishing vessels. Ocean Engineering, 2019, 189, 106369.	4.3	16
21	Data-driven prediction of added-wave resistance on ships in oblique wavesâ€"A comparison between tree-based ensemble methods and artificial neural networks. Applied Ocean Research, 2022, 118, 102964.	4.1	15
22	Real-time deterministic prediction of wave-induced ship responses based on short-time measurements. Ocean Engineering, 2021, 221, 108503.	4.3	14
23	Statistical prediction of parametric roll using FORM. Ocean Engineering, 2017, 144, 235-242.	4.3	13
24	Online wave estimation using vessel motion measurements. IFAC-PapersOnLine, 2018, 51, 244-249.	0.9	13
25	A step towards risk-based decision support for ships â€“ Evaluation of limit states using parallel system analysis. Marine Structures, 2009, 22, 209-224.	3.8	12
26	Intact Stability Analysis of Dead Ship Conditions using FORM. Journal of Ship Research, 2017, 61, 167-176.	1.1	11
27	Deriving the absolute wave spectrum from an encountered distribution of wave energy spectral densities. Ocean Engineering, 2018, 165, 194-208.	4.3	11
28	Preliminary assessment of increased main engine load as a consequence of added wave resistance in the light of minimum propulsion power. Applied Ocean Research, 2021, 108, 102543.	4.1	11
29	Fault Detection for Shipboard Monitoring â€“ Volterra Kernel and Hammerstein Model Approaches. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 24-29.	0.4	10
30	Calculation of mean outcrossing rates of non-Gaussian processes with stochastic input parameters â€" Reliability of containers stowed on ships in severe sea. Probabilistic Engineering Mechanics, 2010, 25, 206-217.	2.7	10
31	Reconstruction of incident wave profiles based on short-time ship response measurements. Applied Ocean Research, 2022, 123, 103183.	4.1	9
32	Evaluation of shipboard wave estimation techniques through model-scale experiments. , 2016, , .		8
33	Wave conditions encountered by shipsâ€"A report from a larger shipping company based on ERA5. Ocean Engineering, 2021, 237, 109584.	4.3	8
34	Fault Detection for Shipboard Monitoring and Decision Support Systems. , 2009, , .		7
35	Sea state estimation using model-scale DP measurements. , 2015, , .		7
36	Estimation of autocorrelation function and spectrum density of wave-induced responses using prolate spheroidal wave functions. Journal of Marine Science and Technology, 2020, 26, 772.	2.9	7

#	Article	IF	Citations
37	Towards the uncertainty quantification of semi-empirical formulas applied to the added resistance of ships in waves of arbitrary heading. Ocean Engineering, 2022, 251, 111040.	4.3	7
38	Validation and correction of auto-logged position measurements. Communications in Transportation Research, 2022, 2, 100051.	10.7	7
39	New concepts for shipboard sea state estimation. , 2015, , .		6
40	How Good Is the STW Sensor? An Account from a Larger Shipping Company. Journal of Marine Science and Engineering, 2021, 9, 465.	2.6	6
41	A Study on Parametric Wave Estimation Based on Measured Ship Motions. The Journal of Japan Institute of Navigation, 2012, 126, 171-177.	0.1	5
42	Experimental Validation of Transverse Stability Monitoring System for Fishing Vessels. IFAC-PapersOnLine, 2019, 52, 57-63.	0.9	5
43	Spatio-temporal variation in sea state parameters along virtual ship route paths. Journal of Operational Oceanography, 2022, 15, 169-186.	1.2	5
44	Short-time FORM analysis for extreme roll motion prediction in beam seas. Marine Structures, 2022, 82, 103160.	3.8	5
45	Study on Short-term Variability of Ship Responses in Waves. The Journal of Japan Institute of Navigation, 2015, 132, 51-57.	0.1	4
46	Parameterised transfer functions with associated confidence bands. Applied Ocean Research, 2022, 125, 103250.	4.1	4
47	Fault Isolation for Shipboard Decision Support. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 413-418.	0.4	3
48	Numerical Simulations of the Rolling of a Ship in a Stochastic Sea: Evaluations by Use of MCS and FORM. , 2009, , .		3
49	Fault Isolation and Quality Assessment for Shipboard Monitoring. , 2010, , .		3
50	Estimation of Sea State Parameters From Measured Ship Responses: The Bayesian Approach With Fixed Hyperparameters. , 2010, , .		2
51	Calculating Outcrossing Rates Used in Decision Support Systems for Ships. , 2008, , .		2
52	Study on a Method for Estimating Fuel Consumption in a Seaway. , 2013, , .		1
53	Parametric Estimation in the Wave Buoy Analogy: An Elaborated Approach Based on Energy Considerations. , 2014, , .		1
54	Uncertainties in ship-based estimation of waves and responses. , 2015, , .		1

#	Article	IF	Citations
55	Ship Motion-Based Wave Estimation Using a Spectral Residual-Calculation. , 2018, , .		1
56	Indirect Measurements of Added-Wave Resistance on an In-Service Container Ship. Lecture Notes in Civil Engineering, 2021, , 115-132.	0.4	1
57	The Wave Buoy Analogy: Analysis of Synthetic Data by Bayesian Modelling. , 2010, , .		0
58	Trend modelling of wave parameters and application in onboard prediction of ship responses. , 2015, , .		0