

Ole Andre Å̃iseth

List of Publications by Year in descending order

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63
papers

1,442
citations

279778

23
h-index

345203

36
g-index

70
all docs

70
docs citations

70
times ranked

510
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering Analysis and Design with ALE-VMS and Space-Time Methods. Archives of Computational Methods in Engineering, 2014, 21, 481-508.	10.2	105
2	Long-term monitoring of wind field characteristics and dynamic response of a long-span suspension bridge in complex terrain. Engineering Structures, 2017, 147, 269-284.	5.3	97
3	Strong wind characteristics and dynamic response of a long-span suspension bridge during a storm. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 172, 116-138.	3.9	62
4	Simplified prediction of wind-induced response and stability limit of slender long-span suspension bridges, based on modified quasi-steady theory: A case study. Journal of Wind Engineering and Industrial Aerodynamics, 2010, 98, 730-741.	3.9	58
5	An enhanced forced vibration rig for wind tunnel testing of bridge deck section models in arbitrary motion. Journal of Wind Engineering and Industrial Aerodynamics, 2017, 164, 152-163.	3.9	51
6	Evaluation of mast measurements and wind tunnel terrain models to describe spatially variable wind field characteristics for long-span bridge design. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 179, 558-573.	3.9	51
7	Operational modal analysis of an end-supported pontoon bridge. Engineering Structures, 2017, 148, 410-423.	5.3	49
8	Time domain modeling of self-excited aerodynamic forces for cable-supported bridges: A comparative study. Computers and Structures, 2011, 89, 1306-1322.	4.4	45
9	Modelling the stochastic dynamic behaviour of a pontoon bridge: A case study. Computers and Structures, 2016, 165, 123-135.	4.4	45
10	Prediction of long-term extreme load effects due to wave and wind actions for cable-supported bridges with floating pylons. Engineering Structures, 2018, 172, 321-333.	5.3	42
11	Measured Buffeting Response of a Long-Span Suspension Bridge Compared with Numerical Predictions Based on Design Wind Spectra. Journal of Structural Engineering, 2017, 143, .	3.4	41
12	A data-based structural health monitoring approach for damage detection in steel bridges using experimental data. Journal of Civil Structural Health Monitoring, 2022, 12, 101-115.	3.9	40
13	Computational and experimental investigation of free vibration and flutter of bridge decks. Computational Mechanics, 2019, 63, 121-136.	4.0	39
14	Influence line extraction by deconvolution in the frequency domain. Computers and Structures, 2017, 189, 21-30.	4.4	38
15	Using ALE-VMS to compute aerodynamic derivatives of bridge sections. Computers and Fluids, 2019, 179, 820-832.	2.5	35
16	Time domain simulations of wind- and wave-induced load effects on a three-span suspension bridge with two floating pylons. Marine Structures, 2018, 58, 434-452.	3.8	33
17	Site-specific data-driven probabilistic wind field modeling for the wind-induced response prediction of cable-supported bridges. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 181, 161-179.	3.9	32
18	Isogeometric Modeling and Experimental Investigation of Moving-Domain Bridge Aerodynamics. Journal of Engineering Mechanics - ASCE, 2019, 145, .	2.9	30

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19	Finite element formulation of the self-excited forces for time-domain assessment of wind-induced dynamic response and flutter stability limit of cable-supported bridges. <i>Finite Elements in Analysis and Design</i> , 2012, 50, 173-183.	3.2	29
20	Effects of wave directionality on extreme response for a long end-anchored floating bridge. <i>Applied Ocean Research</i> , 2019, 90, 101843.	4.1	28
21	Model-based force and state estimation in experimental ice-induced vibrations by means of Kalman filtering. <i>Cold Regions Science and Technology</i> , 2015, 111, 13-26.	3.5	26
22	Ice force identification on the Norstråmsgrund lighthouse. <i>Computers and Structures</i> , 2016, 169, 24-39.	4.4	26
23	Full long-term extreme response analysis of marine structures using inverse FORM. <i>Probabilistic Engineering Mechanics</i> , 2017, 50, 1-8.	2.7	26
24	Long-term extreme response analysis of a long-span pontoon bridge. <i>Marine Structures</i> , 2018, 58, 154-171.	3.8	24
25	ALE-VMS methods for wind-resistant design of long-span bridges. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2019, 191, 143-153.	3.9	24
26	Buffeting response of long-span bridges considering uncertain turbulence parameters using the environmental contour method. <i>Engineering Structures</i> , 2020, 213, 110575.	5.3	23
27	Data Set from Long-Term Wind and Acceleration Monitoring of the Hardanger Bridge. <i>Journal of Structural Engineering</i> , 2021, 147, .	3.4	22
28	Model uncertainty assessment for wave- and current-induced global response of a curved floating pontoon bridge. <i>Applied Ocean Research</i> , 2020, 105, 102368.	4.1	21
29	Structural monitoring of an end-supported pontoon bridge. <i>Marine Structures</i> , 2017, 52, 188-207.	3.8	20
30	Prediction of long-term extreme load effects due to wind for cable-supported bridges using time-domain simulations. <i>Engineering Structures</i> , 2017, 148, 239-253.	5.3	20
31	Effects of co-spectral densities of atmospheric turbulence on the dynamic response of cable-supported bridges: A case study. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2013, 116, 83-93.	3.9	19
32	An alternative analytical approach to prediction of flutter stability limits of cable supported bridges. <i>Journal of Sound and Vibration</i> , 2011, 330, 2784-2800.	3.9	17
33	Indirect monitoring of vortex-induced vibration of suspension bridge hangers. <i>Structural Health Monitoring</i> , 2018, 17, 837-849.	7.5	17
34	Software-to-Software Comparison of End-Anchored Floating Bridge Global Analysis. <i>Journal of Bridge Engineering</i> , 2020, 25, .	2.9	16
35	Laboratory experiments to study ice-induced vibrations of scaled model structures during their interaction with level ice at different ice velocities. <i>Cold Regions Science and Technology</i> , 2015, 119, 1-15.	3.5	15
36	IABSE Task Group 3.1 Benchmark Results. Part 2: Numerical Analysis of a Three-Degree-of-Freedom Bridge Deck Section Based on Experimental Aerodynamics. <i>Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)</i> , 2020, 30, 411-420.	0.8	15

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37	IABSE Task Group 3.1 Benchmark Results. Part 1: Numerical Analysis of a Two-Degree-of-Freedom Bridge Deck Section Based on Analytical Aerodynamics. <i>Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)</i> , 2020, 30, 401-410.	0.8	13
38	A hybrid structural health monitoring approach for damage detection in steel bridges under simulated environmental conditions using numerical and experimental data. <i>Structural Health Monitoring</i> , 2023, 22, 540-561.	7.5	13
39	The use of inverse methods for response estimation of long-span suspension bridges with uncertain wind loading conditions. <i>Journal of Civil Structural Health Monitoring</i> , 2019, 9, 21-36.	3.9	12
40	Flutter derivatives from free decay tests of a rectangular B/D=10 section estimated by optimized system identification methods. <i>Engineering Structures</i> , 2018, 156, 284-293.	5.3	11
41	Long-term extreme buffeting response of cable-supported bridges with uncertain turbulence parameters. <i>Engineering Structures</i> , 2021, 236, 112126.	5.3	11
42	An enhanced identification procedure to determine the rational functions and aerodynamic derivatives of bridge decks. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2018, 176, 131-142.	3.9	10
43	Efficient computation of cross-spectral densities in the stochastic modelling of waves and wave loads. <i>Applied Ocean Research</i> , 2017, 62, 70-88.	4.1	9
44	Long-Term Extreme Response Analysis of Marine Structures Using Inverse SORM. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2018, 140, .	1.2	9
45	Estimation of the dynamic response of a slender suspension bridge using measured acceleration data. <i>Procedia Engineering</i> , 2017, 199, 3047-3052.	1.2	8
46	The Hardanger Bridge monitoring project: Long-term monitoring results and implications on bridge design. <i>Procedia Engineering</i> , 2017, 199, 3115-3120.	1.2	8
47	Convolution-based time-domain simulation for fluidelastic instability in tube arrays. <i>Nonlinear Dynamics</i> , 2021, 104, 4063-4081.	5.2	6
48	Finite Element Model Updating of a Long Span Suspension Bridge. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2019, , 335-344.	0.2	5
49	Covariance-Driven Stochastic Subspace Identification of an End-Supported Pontoon Bridge Under Varying Environmental Conditions. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017, , 107-115.	0.5	5
50	On the importance of cross-sectional details in the wind tunnel testing of bridge deck section models. <i>Procedia Engineering</i> , 2017, 199, 3145-3151.	1.2	4
51	Characterization of the Wave Field Around an Existing End-Supported Pontoon Bridge from Simulated Data. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2019, , 345-359.	0.2	4
52	Systematic Metadata Analysis of Wind-Exposed Long-Span Bridges for Road Vehicle Safety Assessments. <i>Journal of Bridge Engineering</i> , 2022, 27, .	2.9	4
53	Long-term stochastic extreme response analysis of floating bridges. <i>Procedia Engineering</i> , 2017, 199, 1175-1180.	1.2	3
54	Time Domain Modelling of Frequency Dependent Wind and Wave Forces on a Three-Span Suspension Bridge With Two Floating Pylons Using State Space Models. , 2017, , .		3

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55	Superposition principle in bridge aerodynamics: Modelling of self-excited forces for bridge decks in random vibrations. <i>Engineering Structures</i> , 2019, 179, 52-65.	5.3	3
56	Computational Engineering Analysis and Design with ALE-VMS and ST Methods. <i>Computational Methods in Applied Sciences</i> (Springer), 2014, , 321-353.	0.3	3
57	Model-Based Estimation of Hydrodynamic Forces on the Bergsoysund Bridge. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016, , 217-228.	0.5	2
58	Full-Scale Measurements on the Hardanger Bridge During Strong Winds. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016, , 237-245.	0.5	2
59	Experiences from the Five-Year Monitoring of a Long-Span Pontoon Bridge: What Went Right, What Went Wrong and What's Next?. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2019, , 135-138.	0.5	1
60	Numerical Simulation and Modelling Convention of Unsteady Fluidelastic Forces of Tube Arrays. <i>Journal of Pressure Vessel Technology</i> , <i>Transactions of the ASME</i> , 2021, , .	0.6	1
61	Time-Frequency Analysis of Suspension Bridge Response for Identification of Vortex Induced Vibrations. <i>Lecture Notes in Civil Engineering</i> , 2018, , 667-675.	0.4	1
62	Simulation and Monitoring of Floating Bridge Behaviour. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2018, , 277-296.	0.2	1
63	Dynamic Response of an End-Supported Pontoon Bridge due to Wave Excitation: Numerical Predictions versus Measurements. <i>Shock and Vibration</i> , 2021, 2021, 1-18.	0.6	0