

Kuo-Wei Liao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

29
papers

221
citations

7
h-index

13
g-index

29
ext. papers

282
ext. citations

3.3
avg, IF

3.55
L-index

#	Paper	IF	Citations
29	Automated mobile vibration measurement and signal analysis for bridge scour prevention and warning. <i>Automation in Construction</i> , 2022 , 134, 104063	9.6	1
28	Multisphere-based importance sampling for structural reliability. <i>Structural Safety</i> , 2021 , 91, 102099	4.9	0
27	Bridge Health Monitoring via Displacement Reconstruction-Based NB-IoT Technology. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8878	2.6	2
26	Estimating landslide occurrence via small watershed method with relevance vector machine. <i>Earth Science Informatics</i> , 2020 , 13, 249-260	2.5	4
25	A heuristic moment-based framework for optimization design under uncertainty. <i>Engineering With Computers</i> , 2020 , 36, 1229-1242	4.5	1
24	A heuristic optimization considering probabilistic constraints via an equivalent single variable Pearson distribution system. <i>Applied Soft Computing Journal</i> , 2019 , 78, 670-684	7.5	5
23	Evaluation of rainfall kinetic energy and erosivity in northern Taiwan using kriging with climate characteristics. <i>Soil Use and Management</i> , 2019 , 35, 630-642	3.1	4
22	Safety Evaluation of a Water-Immersed Bridge Against Multiple Hazards via Machine Learning. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3116	2.6	1
21	Estimation of Soil Depth Using Bayesian Maximum Entropy Method. <i>Entropy</i> , 2019 , 21,	2.8	3
20	Reliability Analysis of River Bridge against Scours and Earthquakes. <i>Journal of Performance of Constructed Facilities</i> , 2018 , 32, 04018017	2	6
19	A Probabilistic Safety Evaluation Framework for Multi-Hazard Assessment in a Bridge using SO-MARS Learning Model. <i>KSCE Journal of Civil Engineering</i> , 2018 , 22, 903-915	1.9	7
18	Scour Depth Evaluation of a Bridge with a Complex Pier Foundation. <i>KSCE Journal of Civil Engineering</i> , 2018 , 22, 2241-2255	1.9	5
17	Reliability-based Evaluation of River-bridge Flood Resistance Ability Via a Visual Inspection Table. <i>KSCE Journal of Civil Engineering</i> , 2018 , 22, 3473-3483	1.9	
16	The impact of physiographic factors upon the probability of slides occurrence: a case study from the Kaoping River Basin, Taiwan 2018 , 41, 419-429		2
15	Estimation of scour depth at bridges with complex pier foundations using support vector regression integrated with feature selection. <i>Journal of Civil Structural Health Monitoring</i> , 2018 , 8, 431-442	2.9	7
14	Prediction of chloride diffusion in cement mortar using Multi-Gene Genetic Programming and Multivariate Adaptive Regression Splines. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017 , 112, 141-149	4.6	32
13	Reliability-Based Safety Analysis of a Seawall with Incomplete Information on Tsunamis. <i>Coastal Engineering Journal</i> , 2017 , 59, 1750014-1-1750014-25	2.8	1

12	Preliminary bridge health evaluation using the pier vibration frequency. <i>Construction and Building Materials</i> , 2016 , 102, 552-563	6.7	3
11	A probabilistic bridge safety evaluation against floods. <i>SpringerPlus</i> , 2016 , 5, 783		4
10	Groutability estimation of grouting processes with cement grouts using Differential Flower Pollination Optimized Support Vector Machine. <i>Applied Soft Computing Journal</i> , 2016 , 45, 173-186	7.5	52
9	Investigation of chloride diffusion in cement mortar via statistical learning theory. <i>Magazine of Concrete Research</i> , 2016 , 68, 237-249	2	6
8	A PROBABILISTIC EVALUATION OF PIER-SCOUR POTENTIAL IN THE GAOPING RIVER BASIN OF TAIWAN. <i>Journal of Civil Engineering and Management</i> , 2015 , 21, 637-653	3	15
7	A single loop reliability-based design optimization using EPM and MPP-based PSO. <i>Latin American Journal of Solids and Structures</i> , 2014 , 11, 826-847	1.4	10
6	Effect evaluation of shotcrete vegetation mulching technique applied to steep concrete-face slopes on a highway of Taiwan. <i>Paddy and Water Environment</i> , 2013 , 11, 145-159	1.6	14
5	A methodology to build a groutability formula via a heuristic algorithm. <i>KSCE Journal of Civil Engineering</i> , 2013 , 17, 106-116	1.9	13
4	A Concurrent Approach for a Reliability-Based Optimization Design Problem. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2012 , 6, 1015-1030	0.6	
3	A stability investigation of a simulation- and reliability-based optimization. <i>Structural and Multidisciplinary Optimization</i> , 2012 , 46, 761-781	3.6	5
2	An Iterative Topology Optimization Algorithm That Considers Randomness in Design Parameters. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2012 , 6, 1319-1336	0.6	2
1	Application of reliability-based optimization to earth-moving machine: hydraulic cylinder components design process. <i>Structural and Multidisciplinary Optimization</i> , 2008 , 36, 523-536	3.6	16