

Iris Tien

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3070770/publications.pdf>

Version: 2024-02-01

24
papers

474
citations

1162889

8
h-index

713332

21
g-index

25
all docs

25
docs citations

25
times ranked

367
citing authors

#	ARTICLE	IF	CITATIONS
1	Methodology to Quantitatively Assess Impacts of 5G Telecommunications Cybersecurity Risk Scenarios on Dependent Connected Urban Transportation Systems. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2022, 8, .	1.1	4
2	Time-Series Prediction in Nodal Networks Using Recurrent Neural Networks and a Pairwise-Gated Recurrent Unit Approach. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2022, 8, .	1.1	1
3	Combined Effects of Soil Stress History and Scour Hole Dimensions on Laterally and Axially Loaded Piles in Sand and Clay under Scour Conditions. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2022, 148, .	1.5	3
4	Recommendations for Investing in Infrastructure at the Intersection of Resilience, Sustainability, and Equity. Journal of Infrastructure Systems, 2022, 28, .	1.0	4
5	Assessing the Impacts of Air Quality Alerts on Micromobility Transportation Usage Behaviors. Sustainable Cities and Society, 2022, 84, 104025.	5.1	3
6	Conjugate Bayesian updating of analytical fragility functions using dynamic analysis with application to corroded bridges. Computers and Structures, 2022, 270, 106832.	2.4	5
7	Methodology for Regularization of Force-Based Elements to Model Reinforced Concrete Columns with Short Lap Splices. Journal of Engineering Mechanics - ASCE, 2020, 146, 04020073.	1.6	5
8	Probability Propagation Method for Reliability Assessment of Acyclic Directed Networks. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2019, 5, .	1.1	2
9	Analytical probability propagation method for reliability analysis of general complex networks. Reliability Engineering and System Safety, 2019, 189, 21-30.	5.1	9
10	Impact of corrosion on risk assessment of shear-critical and short lap-spliced bridges. Engineering Structures, 2019, 189, 260-271.	2.6	21
11	Framework for Probabilistic Vulnerability Analysis of Interdependent Infrastructure Systems. Journal of Computing in Civil Engineering, 2019, 33, .	2.5	21
12	Methodology for real-time prediction of structural seismic risk based on sensor measurements. Structural Safety, 2018, 73, 54-63.	2.8	5
13	Probabilistic multi-scale modeling of interdependencies between critical infrastructure systems for resilience. Sustainable and Resilient Infrastructure, 2018, 3, 1-15.	1.7	69
14	Probabilistic Framework for Integrating Multiple Data Sources to Estimate Disaster and Failure Events and Increase Situational Awareness. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2018, 4, 04018042.	1.1	5
15	Resilient by design: the case for increasing resilience of buildings and their linked food-energy-water systems. Elementa, 2018, 6, .	1.1	8
16	Impacts of Climate Change on the Assessment of Long-Term Structural Reliability. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2017, 3, .	1.1	7
17	Framework for Probabilistic Assessment of Maximum Nonlinear Structural Response Based on Sensor Measurements: Discretization and Estimation. Journal of Engineering Mechanics - ASCE, 2017, 143, .	1.6	6
18	Algorithms for Bayesian Network Modeling, Inference, and Reliability Assessment for Multistate Flow Networks. Journal of Computing in Civil Engineering, 2017, 31, 04017051.	2.5	40

#	ARTICLE	IF	CITATIONS
19	Reliability Assessment of Critical Infrastructure Using Bayesian Networks. Journal of Infrastructure Systems, 2017, 23, .	1.0	43
20	Metrics for Evaluating and Improving Community Resilience. Journal of Infrastructure Systems, 2017, 23, .	1.0	77
21	Bayesian Network Methods for Modeling and Reliability Assessment of Infrastructure Systems. Springer Series in Reliability Engineering, 2017, , 417-452.	0.3	5
22	Algorithms for Bayesian network modeling and reliability assessment of infrastructure systems. Reliability Engineering and System Safety, 2016, 156, 134-147.	5.1	112
23	Detection of Damage and Failure Events of Critical Public Infrastructure using Social Sensor Big Data. , 2016, , .		16
24	Methodology to account for the impact of stress history in layered soils for seismic vulnerability assessment of scoured bridges. Structure and Infrastructure Engineering, 0, , 1-24.	2.0	3