

# Iris Tien

## List of Publications by Year in descending order

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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	Algorithms for Bayesian network modeling and reliability assessment of infrastructure systems. Reliability Engineering and System Safety, 2016, 156, 134-147.	5.1	112
2	Metrics for Evaluating and Improving Community Resilience. Journal of Infrastructure Systems, 2017, 23, .	1.0	77
3	Probabilistic multi-scale modeling of interdependencies between critical infrastructure systems for resilience. Sustainable and Resilient Infrastructure, 2018, 3, 1-15.	1.7	69
4	Reliability Assessment of Critical Infrastructure Using Bayesian Networks. Journal of Infrastructure Systems, 2017, 23, .	1.0	43
5	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
6	Impact of corrosion on risk assessment of shear-critical and short lap-spliced bridges. Engineering Structures, 2019, 189, 260-271.	2.6	21
7	Framework for Probabilistic Vulnerability Analysis of Interdependent Infrastructure Systems. Journal of Computing in Civil Engineering, 2019, 33, .	2.5	21
8	Detection of Damage and Failure Events of Critical Public Infrastructure using Social Sensor Big Data. , 2016, , .		16
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	Resilient by design: the case for increasing resilience of buildings and their linked food-energy-water systems. Elementa, 2018, 6, .	1.1	8
11	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
12	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
13	Methodology for real-time prediction of structural seismic risk based on sensor measurements. Structural Safety, 2018, 73, 54-63.	2.8	5
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	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
16	Bayesian Network Methods for Modeling and Reliability Assessment of Infrastructure Systems. Springer Series in Reliability Engineering, 2017, , 417-452.	0.3	5
17	Conjugate Bayesian updating of analytical fragility functions using dynamic analysis with application to corroded bridges. Computers and Structures, 2022, 270, 106832.	2.4	5
18	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

#	ARTICLE	IF	CITATIONS
19	Recommendations for Investing in Infrastructure at the Intersection of Resilience, Sustainability, and Equity. <i>Journal of Infrastructure Systems</i> , 2022, 28, .	1.0	4
20	Methodology to account for the impact of stress history in layered soils for seismic vulnerability assessment of scoured bridges. <i>Structure and Infrastructure Engineering</i> , 0, , 1-24.	2.0	3
21	Combined Effects of Soil Stress History and Scour Hole Dimensions on Laterally and Axially Loaded Piles in Sand and Clay under Scour Conditions. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2022, 148, .	1.5	3
22	Assessing the Impacts of Air Quality Alerts on Micromobility Transportation Usage Behaviors. <i>Sustainable Cities and Society</i> , 2022, 84, 104025.	5.1	3
23	Probability Propagation Method for Reliability Assessment of Acyclic Directed Networks. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2019, 5, .	1.1	2
24	Time-Series Prediction in Nodal Networks Using Recurrent Neural Networks and a Pairwise-Gated Recurrent Unit Approach. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2022, 8, .	1.1	1