

# Umberto Alibrandi

## List of Publications by Year in descending order

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Version: 2024-02-01

27  
papers

510  
citations

759233

12  
h-index

713466

21  
g-index

28  
all docs

28  
docs citations

28  
times ranked

417  
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward Responsible Design of Low-Carbon Buildings: From Concept to Engineering. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2022, 8, .	1.7	1
2	Risk-Informed Digital Twin of Buildings and Infrastructures for Sustainable and Resilient Urban Communities. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2022, 8, .	1.7	10
3	Data-Driven Disruption Response Planning for a Mass Rapid Transit System. Smart Innovation, Systems and Technologies, 2019, , 205-213.	0.6	4
4	Information Theory for data-driven Risk Analysis: The Informational Coefficient of Correlation as a Measure of Dependency. , 2019, , .		3
5	Performance-based engineering and multi-criteria decision analysis for sustainable and resilient building design. Structural Safety, 2018, 74, 1-13.	5.3	43
6	Response Spectrum Code-Conforming PEER PBEE using Stochastic Dynamic Analysis and Information Theory. KSCE Journal of Civil Engineering, 2018, 22, 1002-1015.	1.9	4
7	Kernel density maximum entropy method with generalized moments for evaluating probability distributions, including tails, from a small sample of data. International Journal for Numerical Methods in Engineering, 2018, 113, 1904-1928.	2.8	31
8	Hierarchical Decision making by Leveraging Utility Theory and Game Theoretic Analysis towards Sustainability in Building Design Operation. , 2018, , .		2
9	Multicriteria Lifecycle Analyses for Sustainable and Resilient Building Design. , 2018, , .		2
10	Equivalent Linearization Methods for Stochastic Dynamic Analysis Using Linear Response Surfaces. Journal of Engineering Mechanics - ASCE, 2017, 143, .	2.9	14
11	Stochastic dynamic analysis of floating production systems using the First Order Reliability Method and the Secant Hyperplane Method. Ocean Engineering, 2017, 137, 68-77.	4.3	27
12	A Decision Support Tool for Sustainable and Resilient Building Design. Springer Series in Reliability Engineering, 2017, , 509-536.	0.5	8
13	The Tail Equivalent Linearization Method for Nonlinear Stochastic Processes, Genesis and Developments. Springer Series in Reliability Engineering, 2017, , 109-142.	0.5	5
14	Secant Hyperplane Method for Structural Reliability Analysis. Journal of Engineering Mechanics - ASCE, 2016, 142, .	2.9	16
15	First-Order Reliability Method for Structural Reliability Analysis in the Presence of Random and Interval Variables. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2015, 1, .	1.1	16
16	A new sampling strategy for SVM-based response surface for structural reliability analysis. Probabilistic Engineering Mechanics, 2015, 41, 1-12.	2.7	66
17	Optimal design of dampers in seismic excited structures by the Expected value of the stochastic Dissipated Power. Probabilistic Engineering Mechanics, 2015, 41, 129-138.	2.7	9
18	Implications of High-Dimensional Geometry for Structural Reliability Analysis and a Novel Linear Response Surface Method Based on SVM. International Journal of Computational Methods, 2015, 12, 1540016.	1.3	12

#	ARTICLE	IF	CITATIONS
19	TAIL EQUIVALENT LINEARIZATION METHODS FOR SEISMIC RESPONSE SPECTRUM ANALYSIS. , 2015, , .		4
20	A response surface method for stochastic dynamic analysis. Reliability Engineering and System Safety, 2014, 126, 44-53.	8.9	28
21	Seismic metamaterials based on isochronous mechanical oscillators. Applied Physics Letters, 2014, 104, .	3.3	87
22	Stochastic Methods in Nonlinear Structural Dynamics. , 2012, , 3-60.		2
23	A gradient-free method for determining the design point in nonlinear stochastic dynamic analysis. Probabilistic Engineering Mechanics, 2012, 28, 2-10.	2.7	47
24	Model Correction Factor Method for Non-linear Stochastic Dynamic Analysis. , 2011, , .		2
25	Probabilistic eigenvalue buckling analysis solved through the ratio of polynomial response surface. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 450-464.	6.6	37
26	The use of stochastic stresses in the static approach of probabilistic limit analysis. International Journal for Numerical Methods in Engineering, 2008, 73, 747-782.	2.8	11
27	Efficient evaluation of the pdf of a random variable through the kernel density maximum entropy approach. International Journal for Numerical Methods in Engineering, 2008, 75, 1511-1548.	2.8	19