

# Abdollah Shafieezadeh

## List of Publications by Year in descending order

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Version: 2024-02-01

100  
papers

2,082  
citations

257450

24  
h-index

276875

41  
g-index

102  
all docs

102  
docs citations

102  
times ranked

1285  
citing authors

#	ARTICLE	IF	CITATIONS
1	Temporal global sensitivity analysis of concrete sewer pipes under compounding corrosion and heavy traffic loads. Structure and Infrastructure Engineering, 2023, 19, 1108-1121.	3.7	5
2	Optimal budget allocation for bridge portfolios with element-level inspection data: a constrained integer linear programming formulation. Structure and Infrastructure Engineering, 2022, 18, 864-878.	3.7	2
3	Value of information analysis in non-stationary stochastic decision environments: A reliability-assisted POMDP approach. Reliability Engineering and System Safety, 2022, 217, 108034.	8.9	20
4	Adaptive reliability analysis for multi-fidelity models using a collective learning strategy. Structural Safety, 2022, 94, 102141.	5.3	17
5	Data-Driven Model for Estimating the Probability of Riverine Levee Breach Due to Overtopping. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2022, 148, .	3.0	2
6	BUAK-AIS: Efficient Bayesian Updating with Active learning Kriging-based Adaptive Importance Sampling. Computer Methods in Applied Mechanics and Engineering, 2022, 391, 114578.	6.6	17
7	Probabilistic Seismic Demand Analysis of Pile-Supported Transmission Towers on Infinite Slopes: Exploring Machine Learning Models for Optimal Intensity Measures. , 2022, , .		1
8	High-Dimensional Reliability Analysis with Error-Guided Active-Learning Probabilistic Support Vector Machine: Application to Wind-Reliability Analysis of Transmission Towers. Journal of Structural Engineering, 2022, 148, .	3.4	13
9	Hurricane Fragility Assessment of Power Transmission Towers for a New Set of Performance-Based Limit States. Springer Tracts in Civil Engineering, 2022, , 167-188.	0.5	3
10	Parametrized Wind Surge Wave Fragility Functions for Wood Utility Poles. Journal of Structural Engineering, 2022, 148, .	3.4	11
11	Optimum weighted arithmetic means of peak- and spectral-based intensity measures for probabilistic seismic demand modeling of modularized suspended buildings. Bulletin of Earthquake Engineering, 2022, 20, 5383-5426.	4.1	2
12	Machine Learning for Risk and Resilience Assessment in Structural Engineering: Progress and Future Trends. Journal of Structural Engineering, 2022, 148, .	3.4	48
13	Simulation-free reliability analysis with active learning and Physics-Informed Neural Network. Reliability Engineering and System Safety, 2022, 226, 108716.	8.9	25
14	Significant variables for leakage and collapse of buried concrete sewer pipes: a global sensitivity analysis via Bayesian additive regression trees and Sobol indices. Structure and Infrastructure Engineering, 2021, 17, 676-688.	3.7	16
15	A Markovian approach to infrastructure life cycle analysis: Modeling the interplay of hazard effects and recovery. Earthquake Engineering and Structural Dynamics, 2021, 50, 736-755.	4.4	6
16	Error Quantification and Control for Adaptive Kriging-Based Reliability Updating with Equality Information. Reliability Engineering and System Safety, 2021, 207, 107323.	8.9	26
17	A quantile-based sequential approach to reliability-based design optimization via error-controlled adaptive Kriging with independent constraint boundary sampling. Structural and Multidisciplinary Optimization, 2021, 63, 2231-2252.	3.5	7
18	Evolutionary optimization for resilience-based planning for power distribution networks. , 2021, , 47-61.		2

#	ARTICLE	IF	CITATIONS
19	Intelligent hurricane resilience enhancement of power distribution systems via deep reinforcement learning. <i>Applied Energy</i> , 2021, 285, 116355.	10.1	74
20	Metamodel-based subset simulation adaptable to target computational capacities: the case for high-dimensional and rare event reliability analysis. <i>Structural and Multidisciplinary Optimization</i> , 2021, 64, 649.	3.5	17
21	FOSID: a fractional order spectrum intensity for probabilistic seismic demand modeling of extended pile-shaft-supported highway bridges under liquefaction and transverse spreading. <i>Bulletin of Earthquake Engineering</i> , 2021, 19, 2531-2559.	4.1	12
22	Life cycle resilience quantification and enhancement of power distribution systems: A risk-based approach. <i>Structural Safety</i> , 2021, 90, 102075.	5.3	11
23	Seismic response prediction and variable importance analysis of extended pile-shaft-supported bridges against lateral spreading: Exploring optimized machine learning models. <i>Engineering Structures</i> , 2021, 236, 112142.	5.3	36
24	Adaptive network reliability analysis: Methodology and applications to power grid. <i>Reliability Engineering and System Safety</i> , 2021, 216, 107973.	8.9	22
25	A Physics-Informed Graph Attention-based Approach for Power Flow Analysis. , 2021, , .		9
26	Effect of modelling complexities on extreme wind hazard performance of steel lattice transmission towers. <i>Structure and Infrastructure Engineering</i> , 2020, 16, 898-915.	3.7	20
27	Real-time high-fidelity reliability updating with equality information using adaptive Kriging. <i>Reliability Engineering and System Safety</i> , 2020, 195, 106735.	8.9	27
28	Exploring Passive and Active Metamodeling-Based Reliability Analysis Methods for Soil Slopes: A New Approach to Active Training. <i>International Journal of Geomechanics</i> , 2020, 20, .	2.7	26
29	Implementation and evaluation of coupled discontinuous Galerkin methods for simulating overtopping of flood defenses by storm waves. <i>Advances in Water Resources</i> , 2020, 136, 103501.	3.8	5
30	On confidence intervals for failure probability estimates in Kriging-based reliability analysis. <i>Reliability Engineering and System Safety</i> , 2020, 196, 106758.	8.9	28
31	Coupled backward erosion piping and slope instability performance model for levees. <i>Transportation Geotechnics</i> , 2020, 24, 100394.	4.5	7
32	Shake table testing and computational investigation of the seismic performance of modularized suspended building systems. <i>Bulletin of Earthquake Engineering</i> , 2020, 18, 5247-5279.	4.1	8
33	Resilience of Sewer Networks to Extreme Weather Hazards: Past Experiences and an Assessment Framework. , 2020, , .		3
34	A high-fidelity computational investigation of buried concrete sewer pipes exposed to truckloads and corrosion deterioration. <i>Engineering Structures</i> , 2020, 221, 111043.	5.3	24
35	Significant variables affecting the performance of concrete panels impacted by wind-borne projectiles: A global sensitivity analysis. <i>International Journal of Impact Engineering</i> , 2020, 144, 103650.	5.0	15
36	Cross-level fragility analysis of modularized suspended buildings based on experimentally validated numerical models. <i>Structural Design of Tall and Special Buildings</i> , 2020, 29, e1778.	1.9	8

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37	Influence of intensity measure selection on simulation-based regional seismic risk assessment. Earthquake Spectra, 2020, 36, 647-672.	3.1	19
38	Optimal Life-Cycle Resilience Enhancement of Aging Power Distribution Systems: A MINLP-Based Preventive Maintenance Planning. IEEE Access, 2020, 8, 22324-22334.	4.2	54
39	Highly efficient Bayesian updating using metamodels: An adaptive Kriging-based approach. Structural Safety, 2020, 84, 101915.	5.3	23
40	Parameter Estimation of a Fractional Order Soil Constitutive Model Using KiK-Net Downhole Array Data: A Bayesian Updating Approach. , 2020, , .		5
41	Value of Information Analysis via Active Learning and Knowledge Sharing in Error-Controlled Adaptive Kriging. IEEE Access, 2020, 8, 51021-51034.	4.2	16
42	Bayesian calibration of multi-response systems via multivariate Kriging: Methodology and geological and geotechnical case studies. Engineering Geology, 2019, 260, 105248.	6.3	19
43	Probabilistic Sustainability Assessment of Bridges Subjected to Multi-Occurrence Hazards. , 2019, , .		9
44	Optimal EDPs for Post-Earthquake Damage Assessment of Extended Pile-Shaftâ€‘Supported Bridges Subjected to Transverse Spreading. Earthquake Spectra, 2019, 35, 1367-1396.	3.1	46
45	An Adaptive Kriging-Based Approach with Weakly Stationary Random Fields for Soil Slope Reliability Analysis. , 2019, , .		11
46	Fractional order optimal intensity measures for probabilistic seismic demand modeling of extended pile-shaft-supported bridges in liquefiable and laterally spreading ground. Soil Dynamics and Earthquake Engineering, 2019, 120, 301-315.	3.8	22
47	Multi-dimensional wind fragility functions for wood utility poles. Engineering Structures, 2019, 183, 937-948.	5.3	36
48	Probabilistic Lifecycle Cost Analysis of Levees against Backward Erosion. , 2019, , .		8
49	An Integrated Assessment of Seismic Hazard Vulnerability and Resilience of Seaports. , 2019, , .		0
50	ESC: an efficient error-based stopping criterion for kriging-based reliability analysis methods. Structural and Multidisciplinary Optimization, 2019, 59, 1621-1637.	3.5	100
51	REAK: Reliability analysis through Error rate-based Adaptive Kriging. Reliability Engineering and System Safety, 2019, 182, 33-45.	8.9	119
52	A posteriori optimal intensity measures for probabilistic seismic demand modeling. Bulletin of Earthquake Engineering, 2019, 17, 681-706.	4.1	20
53	Effects of Adjacent Spans and Correlated Failure Events on System-Level Hurricane Reliability of Power Distribution Lines. IEEE Transactions on Power Delivery, 2018, 33, 2305-2314.	4.3	21
54	Time-dependent probabilistic capacity degradation assessment of prestressed concrete piles in marine environment. Structure and Infrastructure Engineering, 2018, 14, 1372-1385.	3.7	10

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55	Mitigation of the seismic response of multi-span bridges using MR dampers: Experimental study of a new SMC-based controller. JVC/Journal of Vibration and Control, 2018, 24, 83-99.	2.6	15
56	Optimal intensity measures for probabilistic seismic demand modeling of extended pile-shaft-supported bridges in liquefied and laterally spreading ground. Bulletin of Earthquake Engineering, 2018, 16, 229-257.	4.1	116
57	Systematic Procedures for the Analysis of Agency and User Costs of Bridge Repair Actions. Transportation Research Record, 2018, 2672, 116-126.	1.9	1
58	Updating Bridge Deck Condition Transition Probabilities as New Inspection Data Are Collected: Methodology and Empirical Evaluation. Transportation Research Record, 2018, 2672, 93-102.	1.9	4
59	Resilience Assessment of Distribution Systems Considering the Effect of Hurricanes. , 2018, , .		3
60	Advanced Materials for Structural Vibration Control. Shock and Vibration, 2018, 2018, 1-1.	0.6	0
61	A risk-based life cycle cost strategy for optimal design and evaluation of control methods for nonlinear structures. Earthquake Engineering and Structural Dynamics, 2018, 47, 2297-2314.	4.4	15
62	Enhanced stochastic averaging of non-integrable nonlinear systems subjected to stochastic excitations. Soil Dynamics and Earthquake Engineering, 2018, 113, 256-264.	3.8	5
63	A multi-type multi-occurrence hazard lifecycle cost analysis framework for infrastructure management decision making. Engineering Structures, 2018, 167, 504-517.	5.3	16
64	Shallow-Layer $\langle i \rangle p\text{-}y\langle /i \rangle$ Relationships for Micropiles Embedded in Saturated Medium Dense Sand Using Quasi-Static Test. Geotechnical Testing Journal, 2018, 41, 193-206.	1.0	6
65	A randomized point-based value iteration POMDP enhanced with a counting process technique for optimal management of multi-state multi-element systems. Structural Safety, 2017, 65, 113-125.	5.3	14
66	Reliability-based control algorithms for nonlinear hysteretic systems based on enhanced stochastic averaging of energy envelope. Earthquake Engineering and Structural Dynamics, 2017, 46, 2381-2397.	4.4	6
67	A ground motion prediction equation for novel peak ground fractional order response intensity measures. Bulletin of Earthquake Engineering, 2017, 15, 3437-3461.	4.1	8
68	Ohio Bridge Condition Index: Multilevel Cost-Based Performance Index for Bridge Systems. Transportation Research Record, 2017, 2612, 152-160.	1.9	6
69	Waveform-Based Condition Assessments in Civil Engineering. Shock and Vibration, 2016, 2016, 1-1.	0.6	0
70	Multiple hazard incidents lifecycle cost assessment of structural systems considering state-dependent repair times and fragility curves. Earthquake Engineering and Structural Dynamics, 2016, 45, 2327-2347.	4.4	26
71	An equivalent boundary model for effects of adjacent spans on wind reliability of wood utility poles in overhead distribution lines. Engineering Structures, 2016, 128, 441-452.	5.3	19
72	System reliability-based seismic collapse assessment of steel moment frames using incremental dynamic analysis and Bayesian probability network. Engineering Structures, 2016, 118, 274-286.	5.3	18

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73	Modeling the Impact of Adjacent Spans in Overhead Distribution Lines on the Wind Response of Utility Poles. , 2016, , .		0
74	A stochastic averaging-based optimal control method for nonlinear systems: Application to a building with soil-structure interactions. Engineering Structures, 2016, 127, 635-644.	5.3	3
75	Experimental study of the semi-active control of a nonlinear two-span bridge using stochastic optimal polynomial control. Smart Materials and Structures, 2015, 24, 065011.	3.5	12
76	A Probabilistic Framework for Prioritizing Wood Pole Inspections Given Pole Geospatial Data. IEEE Transactions on Smart Grid, 2015, 6, 973-979.	9.0	16
77	Damage assessment of older highway bridges subjected to three-dimensional ground motions: Characterization of shearâ€œaxial force interaction on seismic fragilities. Engineering Structures, 2015, 87, 47-57.	5.3	49
78	A Decision Framework for Managing Risk to Airports from Terrorist Attack. Risk Analysis, 2015, 35, 292-306.	2.7	56
79	Time-Dependent Probabilistic Capacity Assessment of a Prestressed Concrete Pile in a Spatially Varying Corrosive Marine Environment Using Detailed Finite Element Methods. , 2015, , .		0
80	Statistical models for shear strength of RC beamâ€œcolumn joints using machineâ€œlearning techniques. Earthquake Engineering and Structural Dynamics, 2014, 43, 2075-2095.	4.4	83
81	Age-Dependent Fragility Models of Utility Wood Poles in Power Distribution Networks Against Extreme Wind Hazards. IEEE Transactions on Power Delivery, 2014, 29, 131-139.	4.3	114
82	A probabilistic framework for correlated seismic downtime and repair cost estimation of geoâ€œstructures. Earthquake Engineering and Structural Dynamics, 2014, 43, 739-757.	4.4	15
83	Scenario-based resilience assessment framework for critical infrastructure systems: Case study for seismic resilience of seaports. Reliability Engineering and System Safety, 2014, 132, 207-219.	8.9	117
84	A framework for assessing the effectiveness of resilience enhancement strategies for interdependent infrastructure systems. , 2014, , 573-580.		1
85	A risk informed decision framework for risk management of infrastructure systems against terrorist attacks. , 2014, , 2731-2738.		0
86	Characterization of main-shock effects on the aftershock fragility of rigid electrical equipment. , 2014, , 4415-4421.		0
87	Likelihood-based approaches for confidence interval estimation of reliability indices. , 2014, , 1851-1851.		0
88	Soilâ€œpileâ€œstructure interaction simulations in liquefiable soils via dynamic macroelements: Formulation and validation. Soil Dynamics and Earthquake Engineering, 2013, 47, 92-107.	3.8	23
89	Three-Dimensional Wharf Response to Far-Field and Impulsive Near-Field Ground Motions in Liquefiable Soils. Journal of Structural Engineering, 2013, 139, 1395-1407.	3.4	33
90	Fragility Assessment of Wood Poles in Power Distribution Networks against Extreme Wind Hazards. , 2012, , .		3

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91	Seismic Performance of Pile-Supported Wharf Structures considering Soil-Structure Interaction in Liquefied Soil. Earthquake Spectra, 2012, 28, 729-757.	3.1	41
92	Dynamic Interaction Behavior of Pile-Supported Wharves and Container Cranes in Liquefiable Soil Embankments. , 2012, , .		0
93	Confidence intervals for reliability indices using likelihood ratio statistics. Structural Safety, 2012, 38, 48-55.	5.3	8
94	Fractional order intensity measures for probabilistic seismic demand modeling applied to highway bridges. Earthquake Engineering and Structural Dynamics, 2012, 41, 391-409.	4.4	79
95	Demonstration of robust stability and performance of filter-enhanced H2/LQG controllers for a nonlinear structure. Structural Control and Health Monitoring, 2011, 18, 710-720.	4.0	2
96	Fragility Models for Container Cargo Wharves. , 2009, , .		2
97	Seismic Response of Pile-Supported Container Wharves. , 2009, , .		3
98	Fractional Order Filter Enhanced LQR for Seismic Protection of Civil Structures. Journal of Computational and Nonlinear Dynamics, 2008, 3, .	1.2	26
99	Fractional Order LQR for Optimal Robust Control of a Simple Structure. , 2007, , 1235.		0
100	A physics-based approach for predicting time-dependent progression length of backward erosion piping. Canadian Geotechnical Journal, 0, , .	2.8	3