

Michalis Fragiadakis

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

1,607
citations

257450

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302126

39
g-index

85
all docs

85
docs citations

85
times ranked

1176
citing authors

#	ARTICLE	IF	CITATIONS
1	A wavelet-based approach for truncating pulse-like records. Bulletin of Earthquake Engineering, 2022, 20, 1-24.	4.1	6
2	Modeling of rocking frames under seismic loading. Earthquake Engineering and Structural Dynamics, 2022, 51, 108-128.	4.4	3
3	Inelastic static and dynamic seismic response assessment of frames with stochastic properties. Structure and Infrastructure Engineering, 2021, 17, 413-424.	3.7	1
4	Shape control and design of aeronautical configurations using shape memory alloy actuators. Computers and Structures, 2021, 244, 106434.	4.4	14
5	Plastic Hinge and Plastic Zone Seismic Analysis of Frames. , 2021, , 1-9.		0
6	Selection and Scaling of Ground Motions Using Multicriteria Optimization. Journal of Structural Engineering, 2020, 146, .	3.4	9
7	Fragility and risk assessment of freestanding building contents. Earthquake Engineering and Structural Dynamics, 2020, 49, 1028-1048.	4.4	43
8	EXPERIMENTAL SEISMIC ASSESSMENT AND PROTECTION OF MUSEUM ARTEFACTS. , 2020, , .		5
9	THE EFFECT OF BUILDING'S RESPONSE ON THE FRAGILITY OF FREESTANDING SYMMETRIC OR ASYMMETRIC CONTENTS. , 2020, , .		0
10	A MACHINE LEARNING APPROACH TO NONLINEAR RESPONSE ANALYSIS OF STRUCTURES. , 2020, , .		0
11	Seismic response assessment of rocking systems using single degree-of-freedom oscillators. Earthquake Engineering and Structural Dynamics, 2019, 48, 689-708.	4.4	28
12	Seismic Performance Evaluation of Liquid Storage Tanks Using Nonlinear Static Procedures. Journal of Pressure Vessel Technology, Transactions of the ASME, 2019, 141, .	0.6	16
13	Dynamic Analysis and Seismic Response of Planar Circular Arches with Variable Cross-Section. Journal of Earthquake Engineering, 2018, 22, 191-210.	2.5	2
14	Vulnerability Assessment of Water Distribution Networks Under Seismic Loads. , 2018, , 173-207.		1
15	From Historical and Seismic Performance to City-Wide Risk Maps. , 2018, , 247-267.		2
16	Real-Time Monitoring. , 2018, , 227-246.		0
17	Disaster Resilience of Water Distribution Networks. , 2018, , 269-281.		1
18	Hydraulic Vulnerability Assessment of Water Distribution Networks. , 2018, , 209-225.		0

#	ARTICLE	IF	CITATIONS
19	Vulnerability Assessment of Water Distribution Networks Under Abnormal Operating Conditions and Nonseismic Loads – The Case of Intermittent Water Supply (IWS). , 2018, , 131-159.		0
20	Vulnerability Assessment of Water Distribution Networks Under Normal (Continuous Water Supply,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf		0
21	Topological Vulnerability. , 2018, , 161-172.		0
22	Closure to –New Resilience Index for Urban Water Distribution Networks–by G. P. Cimellaro, A. Tinebra, C. Renschler, and M. Fragiadakis. Journal of Structural Engineering, 2017, 143, .	3.4	11
23	Multi-criteria selection and scaling of ground motion records using Evolutionary Algorithms. Procedia Engineering, 2017, 199, 3528-3533.	1.2	4
24	Seismic risk assessment of rocking building contents of multistorey buildings. Procedia Engineering, 2017, 199, 3534-3539.	1.2	6
25	Seismic risk assessment of liquid storage tanks via a nonlinear surrogate model. Earthquake Engineering and Structural Dynamics, 2017, 46, 2851-2868.	4.4	48
26	Surrogate Modeling for the Seismic Performance Assessment of Liquid Storage Tanks. Journal of Structural Engineering, 2017, 143, .	3.4	38
27	VULNERABILITY ASSESSMENT OF FLAG-SHAPED HYSTERETIC ROCKING BRIDGE BENTS. , 2017, , .		2
28	SIMPLE MODELS FOR THE SEISMIC RESPONSE OF RIGID OR FLEXIBLE BLOCKS. , 2017, , .		0
29	Epistemic uncertainty assessment using Incremental Dynamic Analysis and Neural Networks. Bulletin of Earthquake Engineering, 2016, 14, 529-547.	4.1	18
30	New Resilience Index for Urban Water Distribution Networks. Journal of Structural Engineering, 2016, 142, .	3.4	93
31	Vulnerability Assessment of Damaged Classical Multidrum Columns. Advances in Civil and Industrial Engineering Book Series, 2016, , 235-253.	0.2	1
32	PARAMETRIC INVESTIGATION OF THE DYNAMIC RESPONSE OF RIGID BLOCKS SUBJECTED TO SYNTHETIC NEAR-SOURCE GROUND MOTION RECORDS. , 2016, , .		3
33	SEISMIC RELIABILITY ASSESSMENT OF FRAME STRUCTURES WITH FLEXIBILITY-BASED STOCHASTIC BEAM-COLUMN ELEMENTS. , 2016, , .		0
34	Seismic Fragility Assessment of Steel Liquid Storage Tanks. , 2015, , .		12
35	Vulnerability Assessment of Water Distribution Networks Considering Performance Data. Journal of Infrastructure Systems, 2015, 21, 04014040.	1.8	24
36	Seismic assessment of structures and lifelines. Journal of Sound and Vibration, 2015, 334, 29-56.	3.9	52

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37	Plastic Hinge and Plastic Zone Seismic Analysis of Frames. , 2015, , 1926-1933.		1
38	SURROGATE MODELLING OF LIQUID STORAGE TANKS FOR SEISMIC PERFORMANCE DESIGN AND ASSESSMENT. , 2015, , .		2
39	Seismic Reliability Assessment of Lifeline Systems. , 2014, , .		1
40	Seismic reliability assessment of urban water networks. Earthquake Engineering and Structural Dynamics, 2014, 43, 357-374.	4.4	62
41	Bias assessment in Incremental Dynamic Analysis due to record scaling. Soil Dynamics and Earthquake Engineering, 2014, 67, 158-168.	3.8	33
42	Application of Nonlinear Static Procedures for the Seismic Assessment of Regular RC Moment Frame Buildings. Earthquake Spectra, 2014, 30, 767-794.	3.1	42
43	SEISMIC RELIABILITY ASSESSMENT OF CLASSICAL COLUMNS SUBJECTED TO NEAR SOURCE GROUND MOTIONS. , 2014, , .		0
44	MEASURING BIAS IN INCREMENTAL DYNAMIC ANALYSIS USING BOOTSTRAP. , 2014, , .		0
45	RELIABILITY ASSESSMENT OF PIPE NETWORKS UNDER SEISMIC LOADS. , 2014, , .		0
46	Reliability Assessment of Urban Water Distribution Networks Under Seismic Loads. Water Resources Management, 2013, 27, 3739-3764.	3.9	36
47	Entropy-Based Sensor Placement Optimization for Waterloss Detection in Water Distribution Networks. Water Resources Management, 2013, 27, 4443-4468.	3.9	38
48	Seismic reliability assessment of classical columns subjected to near-fault ground motions. Earthquake Engineering and Structural Dynamics, 2013, 42, 2061-2079.	4.4	62
49	Influence of modeling parameters on the response of degrading systems to near-field ground motions. Engineering Structures, 2013, 53, 10-24.	5.3	19
50	Reliability-based optimum seismic design of structures using simplified performance estimation methods. Engineering Structures, 2013, 52, 707-717.	5.3	25
51	Site Effects in Structural Response Predictions of Inelastic SDOF Oscillators. Earthquake Spectra, 2012, 28, 859-883.	3.1	5
52	Applicability of Nonlinear Static Procedures to RC Moment-Resisting Frames. , 2011, , .		3
53	An overview to structural seismic design optimisation frameworks. Computers and Structures, 2011, 89, 1155-1165.	4.4	70
54	Evaluation of ASCE-41, ATC-40 and N2 static pushover methods based on optimally designed buildings. Soil Dynamics and Earthquake Engineering, 2011, 31, 77-90.	3.8	27

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55	Nonlinear Dynamic Response Variability and Reliability of Frames with Stochastic Non-Gaussian Parameters. Computational Methods in Applied Sciences (Springer), 2011, , 171-185.	0.3	2
56	Inelastic Analysis of Frames Under Combined Bending, Shear and Torsion. Computational Methods in Applied Sciences (Springer), 2011, , 401-425.	0.3	0
57	Site Effects in Ground Motion Synthetics for Structural Performance Predictions. Computational Methods in Applied Sciences (Springer), 2011, , 67-97.	0.3	0
58	Static Versus Dynamic Methods of Analysis for Estimating Seismic Performance. , 2011, , 99-133.		0
59	Seismic reliability of frame structures with non-Gaussian system properties. , 2011, , 2684-2690.		0
60	Optimal seismic design of steel structures using approximate methods. , 2011, , 868-873.		1
61	Incremental dynamic analysis for estimating seismic performance sensitivity and uncertainty. Earthquake Engineering and Structural Dynamics, 2010, 39, 141-163.	4.4	127
62	Fast performance uncertainty estimation via pushover and approximate IDA. Earthquake Engineering and Structural Dynamics, 2010, 39, 683-703.	4.4	32
63	A 3D fibre beam-column element with shear modelling for the inelastic analysis of steel structures. Computational Mechanics, 2010, 45, 553-572.	4.0	28
64	Neural Networks: Some Successful Applications in Computational Mechanics. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2010, , 317-336.	0.6	0
65	Nonlinear dynamic analysis of frames with stochastic non-Gaussian material properties. Engineering Structures, 2009, 31, 1841-1850.	5.3	18
66	Performance-based optimum seismic design of reinforced concrete structures. Earthquake Engineering and Structural Dynamics, 2008, 37, 825-844.	4.4	80
67	MODELING, ANALYSIS AND RELIABILITY OF SEISMICALLY EXCITED STRUCTURES: COMPUTATIONAL ISSUES. International Journal of Computational Methods, 2008, 05, 483-511.	1.3	51
68	Modelling inelastic buckling of reinforcing bars under earthquake loading. Structures and Infrastructures Series, 2008, , 347-361.	0.2	2
69	OPTIMUM PERFORMANCE-BASED RELIABILITY DESIGN OF STRUCTURES. , 2007, , 137-159.		0
70	Fragility Assessment of Steel Frames Using Neural Networks. Earthquake Spectra, 2007, 23, 735-752.	3.1	85
71	Robust Performance-Based Design Optimization of Steel Moment Resisting Frames. Journal of Earthquake Engineering, 2007, 11, 752-772.	2.5	11
72	Soft Computing Techniques in Probabilistic Seismic Analysis of Structures. , 2007, , 248-269.		0

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73	Improved Seismic Design Procedures and Evolutionary Tools. , 2007, , 1-21.		0
74	Seismic Design Procedures in the Framework of Evolutionary Based Structural Optimization. , 2006, , 28-28.		0
75	Structural optimization: A tool for evaluating seismic design procedures. Engineering Structures, 2006, 28, 1623-1633.	5.3	46
76	Performance-based multiobjective optimum design of steel structures considering life-cycle cost. Structural and Multidisciplinary Optimization, 2006, 32, 1-11.	3.5	112
77	Evaluation of the influence of vertical irregularities on the seismic performance of a nine-storey steel frame. Earthquake Engineering and Structural Dynamics, 2006, 35, 1489-1509.	4.4	66
78	Performance-based earthquake engineering using structural optimisation tools. International Journal of Reliability and Safety, 2006, 1, 59.	0.2	15
79	Optimum Design of Shell Structures with Stiffening Beams. AIAA Journal, 2004, 42, 175-184.	2.6	41
80	Seismic Design Procedures in The Framework of Evolutionary Based Structural Optimization. , 0, , 429-458.		0