

Cheng Chen

List of Publications by Year in descending order

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39
papers

1,209
citations

394421

19
h-index

377865

34
g-index

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all docs

40
docs citations

40
times ranked

388
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Time-Varying Delay on Stability of Real-Time Hybrid Simulation with Multiple Experimental Substructures. <i>Journal of Earthquake Engineering</i> , 2022, 26, 357-382.	2.5	8
2	Experimental evaluation of CVâ€Voronoi based adaptive sampling for Kriging metaâ€Modeling of multiple responses through realâ€time hybrid simulation. <i>Earthquake Engineering and Structural Dynamics</i> , 2022, 51, 1943-1961.	4.4	6
3	Stability analysis of real time hybrid simulation under coupled actuator delay and nonlinear behavior. <i>Earthquake Engineering and Structural Dynamics</i> , 2022, 51, 2357-2377.	4.4	2
4	Realâ€time hybrid simulation with multiâ€fidelity Coâ€Kriging for global response prediction under structural uncertainties. <i>Earthquake Engineering and Structural Dynamics</i> , 2022, 51, 2591-2609.	4.4	8
5	Adaptive Experimental Design of Real-Time Hybrid Simulation for Parameter Calibration of Rate-Dependent Devices toward Optimal Response Prediction. <i>Journal of Structural Engineering</i> , 2022, 148, .	3.4	2
6	Real-Time Hybrid Simulation with Polynomial Chaos NARX Modeling for Seismic Response Evaluation of Structures Subjected to Stochastic Ground Motions. <i>Journal of Structural Engineering</i> , 2022, 148, .	3.4	4
7	Multiâ€degreeâ€ofâ€freedom forceâ€displacement mixed control strategy for structural testing. <i>Earthquake Engineering and Structural Dynamics</i> , 2021, 50, 354-374.	4.4	8
8	Comparison of Magnetorheological Damper Models through Parametric Uncertainty Analysis Using Generalized Likelihood Uncertainty Estimation. <i>Journal of Engineering Mechanics - ASCE</i> , 2021, 147, 04020146.	2.9	3
9	Uncertainty analysis of a shape memory alloy model for dynamic analysis. <i>Smart Materials and Structures</i> , 2021, 30, 025017.	3.5	2
10	Seismic design method for multi-story SMA braced frames based on inelastic displacement ratio. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 147, 106794.	3.8	22
11	Experimental and numerical analysis of a novel tubular joint for transmission tower. <i>Journal of Constructional Steel Research</i> , 2020, 164, 105780.	3.9	7
12	Energy-Based Seismic Design Methodology of SMABFs Using Hysteretic Energy Spectrum. <i>Journal of Structural Engineering</i> , 2020, 146, .	3.4	32
13	Experimental verification of a frequency domain evaluation indexâ€based compensation for realâ€time hybrid simulation. <i>Structural Control and Health Monitoring</i> , 2020, 27, e2641.	4.0	2
14	Stability Analysis of Real-Time Hybrid Simulation with Time-Varying Delay through a Delay Decomposition Approach. <i>Journal of Engineering Mechanics - ASCE</i> , 2020, 146, .	2.9	11
15	Data-driven Arbitrary Polynomial Chaos Expansion on Uncertainty Quantification for Real-time Hybrid Simulation Under Stochastic Ground Motions. <i>Experimental Techniques</i> , 2020, 44, 751-762.	1.5	6
16	Evaluation of frequency evaluation index based compensation for benchmark study in real-time hybrid simulation. <i>Mechanical Systems and Signal Processing</i> , 2019, 130, 649-663.	8.0	23
17	Stability Analysis of Real-Time Hybrid Simulation for Time-Varying Actuator Delay Using the Lyapunov-Krasovskii Functional Approach. <i>Journal of Engineering Mechanics - ASCE</i> , 2019, 145, .	2.9	22
18	Analysis of actuator delay and its effect on uncertainty quantification for real-time hybrid simulation. <i>Earthquake Engineering and Engineering Vibration</i> , 2017, 16, 713-725.	2.3	11

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19	A frequency response analysis approach for quantitative assessment of actuator tracking for real-time hybrid simulation. <i>Smart Materials and Structures</i> , 2014, 23, 045042.	3.5	24
20	Analysis of decimation techniques to improve computational efficiency of a frequency-domain evaluation approach for real-time hybrid simulation. <i>Smart Structures and Systems</i> , 2014, 14, 1197-1220.	1.9	8
21	Improved Adaptive Inverse Compensation Technique for Real-Time Hybrid Simulation. <i>Journal of Engineering Mechanics - ASCE</i> , 2012, 138, 1432-1446.	2.9	43
22	Response to "Discussion of paper "Real-time hybrid testing using the unconditionally stable explicit CR integration algorithm" by Cheng Chen, James M. Ricles, Thomas M. Marullo and Oya Mercan" in <i>Earthquake Engineering and Structural Dynamics</i> 2009; 38:23-44. <i>Earthquake Engineering and Structural Dynamics</i> , 2012, 41, 1065-1067.	4.4	0
23	Analysis of implicit HHT integration algorithm for real-time hybrid simulation. <i>Earthquake Engineering and Structural Dynamics</i> , 2012, 41, 1021-1041.	4.4	21
24	Evaluation of a real-time hybrid simulation system for performance evaluation of structures with rate dependent devices subjected to seismic loading. <i>Engineering Structures</i> , 2012, 35, 71-82.	5.3	52
25	Large-scale real-time hybrid simulation involving multiple experimental substructures and adaptive actuator delay compensation. <i>Earthquake Engineering and Structural Dynamics</i> , 2012, 41, 549-569.	4.4	56
26	Experimental evaluation of the seismic performance of steel MRFs with compressed elastomer dampers using large-scale real-time hybrid simulation. <i>Engineering Structures</i> , 2011, 33, 1859-1869.	5.3	85
27	A model reference adaptive control based method for actuator delay estimation in real-time testing. <i>Frontiers of Architecture and Civil Engineering in China</i> , 2010, 4, 277-286.	0.4	2
28	Stability Analysis of Direct Integration Algorithms Applied to MDOF Nonlinear Structural Dynamics. <i>Journal of Engineering Mechanics - ASCE</i> , 2010, 136, 485-495.	2.9	22
29	Experimental evaluation of an adaptive inverse compensation technique for real-time simulation of a large-scale magneto-rheological fluid damper. <i>Smart Materials and Structures</i> , 2010, 19, 025017.	3.5	26
30	Tracking Error-Based Servohydraulic Actuator Adaptive Compensation for Real-Time Hybrid Simulation. <i>Journal of Structural Engineering</i> , 2010, 136, 432-440.	3.4	108
31	Servo-hydraulic actuator control for real-time hybrid simulation. , 2009, , .		7
32	Real-time hybrid testing using the unconditionally stable explicit CR integration algorithm. <i>Earthquake Engineering and Structural Dynamics</i> , 2009, 38, 23-44.	4.4	139
33	Improving the inverse compensation method for real-time hybrid simulation through a dual compensation scheme. <i>Earthquake Engineering and Structural Dynamics</i> , 2009, 38, 1237-1255.	4.4	80
34	Analysis of actuator delay compensation methods for real-time testing. <i>Engineering Structures</i> , 2009, 31, 2643-2655.	5.3	92
35	Design and experimental evaluation of steel MRF with magneto-rheological dampers for seismic hazard mitigation. , 2009, , .		2
36	Stability analysis of SDOF real-time hybrid testing systems with explicit integration algorithms and actuator delay. <i>Earthquake Engineering and Structural Dynamics</i> , 2008, 37, 597-613.	4.4	64

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37	Development of Direct Integration Algorithms for Structural Dynamics Using Discrete Control Theory. Journal of Engineering Mechanics - ASCE, 2008, 134, 676-683.	2.9	163
38	Stability Analysis of Direct Integration Algorithms Applied to Nonlinear Structural Dynamics. Journal of Engineering Mechanics - ASCE, 2008, 134, 703-711.	2.9	35
39	Probabilistic Analysis of a Linearized Servo-Hydraulic Model for Real-Time Structural Testing. Journal of Earthquake Engineering, 0, , 1-20.	2.5	0