

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

40
all docs

40
docs citations

40
times ranked

388
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of Direct Integration Algorithms for Structural Dynamics Using Discrete Control Theory. <i>Journal of Engineering Mechanics - ASCE</i> , 2008, 134, 676-683.	2.9	163
2	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
3	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
4	Analysis of actuator delay compensation methods for real-time testing. <i>Engineering Structures</i> , 2009, 31, 2643-2655.	5.3	92
5	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
6	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
7	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
8	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
9	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
10	Improved Adaptive Inverse Compensation Technique for Real-Time Hybrid Simulation. <i>Journal of Engineering Mechanics - ASCE</i> , 2012, 138, 1432-1446.	2.9	43
11	Stability Analysis of Direct Integration Algorithms Applied to Nonlinear Structural Dynamics. <i>Journal of Engineering Mechanics - ASCE</i> , 2008, 134, 703-711.	2.9	35
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 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
14	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
15	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
16	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
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	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

#	ARTICLE	IF	CITATIONS
19	Analysis of implicit HHT \pm integration algorithm for real-time hybrid simulation. Earthquake Engineering and Structural Dynamics, 2012, 41, 1021-1041.	4.4	21
20	Analysis of actuator delay and its effect on uncertainty quantification for real-time hybrid simulation. Earthquake Engineering and Engineering Vibration, 2017, 16, 713-725.	2.3	11
21	Stability Analysis of Real-Time Hybrid Simulation with Time-Varying Delay through a Delay Decomposition Approach. Journal of Engineering Mechanics - ASCE, 2020, 146, .	2.9	11
22	Effect of Time-Varying Delay on Stability of Real-Time Hybrid Simulation with Multiple Experimental Substructures. Journal of Earthquake Engineering, 2022, 26, 357-382.	2.5	8
23	Multi-degree-of-freedom force-displacement mixed control strategy for structural testing. Earthquake Engineering and Structural Dynamics, 2021, 50, 354-374.	4.4	8
24	Analysis of decimation techniques to improve computational efficiency of a frequency-domain evaluation approach for real-time hybrid simulation. Smart Structures and Systems, 2014, 14, 1197-1220.	1.9	8
25	Real-time hybrid simulation with multi-fidelity Co-Kriging for global response prediction under structural uncertainties. Earthquake Engineering and Structural Dynamics, 2022, 51, 2591-2609.	4.4	8
26	Servo-hydraulic actuator control for real-time hybrid simulation. , 2009, , .		7
27	Experimental and numerical analysis of a novel tubular joint for transmission tower. Journal of Constructional Steel Research, 2020, 164, 105780.	3.9	7
28	Data-driven Arbitrary Polynomial Chaos Expansion on Uncertainty Quantification for Real-time Hybrid Simulation Under Stochastic Ground Motions. Experimental Techniques, 2020, 44, 751-762.	1.5	6
29	Experimental evaluation of CV \pm Voronoi based adaptive sampling for Kriging meta-modeling of multiple responses through real-time hybrid simulation. Earthquake Engineering and Structural Dynamics, 2022, 51, 1943-1961.	4.4	6
30	Real-Time Hybrid Simulation with Polynomial Chaos NARX Modeling for Seismic Response Evaluation of Structures Subjected to Stochastic Ground Motions. Journal of Structural Engineering, 2022, 148, .	3.4	4
31	Comparison of Magnetorheological Damper Models through Parametric Uncertainty Analysis Using Generalized Likelihood Uncertainty Estimation. Journal of Engineering Mechanics - ASCE, 2021, 147, 04020146.	2.9	3
32	A model reference adaptive control based method for actuator delay estimation in real-time testing. Frontiers of Architecture and Civil Engineering in China, 2010, 4, 277-286.	0.4	2
33	Experimental verification of a frequency domain evaluation index-based compensation for real-time hybrid simulation. Structural Control and Health Monitoring, 2020, 27, e2641.	4.0	2
34	Uncertainty analysis of a shape memory alloy model for dynamic analysis. Smart Materials and Structures, 2021, 30, 025017.	3.5	2
35	Design and experimental evaluation of steel MRF with magneto-rheological dampers for seismic hazard mitigation. , 2009, , .		2
36	Stability analysis of real time hybrid simulation under coupled actuator delay and nonlinear behavior. Earthquake Engineering and Structural Dynamics, 2022, 51, 2357-2377.	4.4	2

#	ARTICLE	IF	CITATIONS
37	Adaptive Experimental Design of Real-Time Hybrid Simulation for Parameter Calibration of Rate-Dependent Devices toward Optimal Response Prediction. Journal of Structural Engineering, 2022, 148, .	3.4	2
38	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 Earthquake Engineering and Structural Dynamics 2009; 38:23-44. Earthquake Engineering and Structural Dynamics, 2012, 41, 1065-1067.	4.4	0
39	Probabilistic Analysis of a Linearized Servo-Hydraulic Model for Real-Time Structural Testing. Journal of Earthquake Engineering, 0, , 1-20.	2.5	0