

# Hamed Ebrahimian

## List of Publications by Year in descending order

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Version: 2024-02-01

27  
papers

856  
citations

623734

14  
h-index

552781

26  
g-index

30  
all docs

30  
docs citations

30  
times ranked

468  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Adaptive Bayesian Inference Framework for Joint Model and Noise Identification. Journal of Engineering Mechanics - ASCE, 2022, 148, .   | 2.9 | 4         |
| 2  | Bridge Digital Twinning Using an Output-Only Bayesian Model Updating Method and Recorded Seismic Measurements. Sensors, 2022, 22, 1278.   | 3.8 | 12        |
| 3  | A Computationally Efficient Method for Updating Fuel Inputs for Wildfire Behavior Models Using Sentinel Imagery and Random Forest Classification. Remote Sensing, 2022, 14, 1447.                           | 4.0 | 14        |
| 4  | Experimental Study of Mechanical Connectors for Application in Rebar Cages. , 2022, , .   |     | 2         |
| 5  | Statistical analysis of the modal properties of a seismically-damaged five-story RC building identified using ambient vibration data. Journal of Building Engineering, 2022, 52, 104411.                    | 3.4 | 5         |
| 6  | Behavior Study of Commercial Polyurea under Monotonic, Rate Dependent, Cyclic, and Fatigue Tensile Loading for Potential Structural Applications. Polymers, 2022, 14, 1878.                                 | 4.5 | 2         |
| 7  | Tracking Wildfires With Weather Radars. Journal of Geophysical Research D: Atmospheres, 2022, 127, .  | 3.3 | 10        |
| 8  | Mechanics-based model updating for identification and virtual sensing of an offshore wind turbine using sparse measurements. Structural Control and Health Monitoring, 2021, 28, e2647.                     | 4.0 | 24        |
| 9  | Seismic response analysis and modal identification of a full-scale five-story base-isolated building tested on the NEES@UCSD shake table. Engineering Structures, 2021, 238, 112087.                        | 5.3 | 11        |
| 10 | Output-only model updating of adjacent buildings from sparse seismic response records and identification of their common excitation. Structural Control and Health Monitoring, 2020, 27, e2597.             | 4.0 | 9         |
| 11 | Adaptive Kalman filters for nonlinear finite element model updating. Mechanical Systems and Signal Processing, 2020, 143, 106837.   | 8.0 | 68        |
| 12 | Structural Identification for Dynamic Strain Estimation in Wind Turbine Towers. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 239-245.  | 0.5 | 2         |
| 13 | Information-Theoretic Approach for Identifiability Assessment of Nonlinear Structural Finite-Element Models. Journal of Engineering Mechanics - ASCE, 2019, 145, 04019039.                                  | 2.9 | 17        |
| 14 | Performance comparison of Kalman-based filters for nonlinear structural finite element model updating. Journal of Sound and Vibration, 2019, 438, 520-542.  | 3.9 | 44        |
| 15 | Bayesian optimal estimation for output-only nonlinear system and damage identification of civil structures. Structural Control and Health Monitoring, 2018, 25, e2128.                                      | 4.0 | 64        |
| 16 | Parametric estimation of dispersive viscoelastic layered media with application to structural health monitoring. Soil Dynamics and Earthquake Engineering, 2018, 105, 204-223.                              | 3.8 | 11        |
| 17 | Pretest Nonlinear Finite-Element Modeling and Response Simulation of a Full-Scale 5-Story Reinforced Concrete Building Tested on the NEES-UCSD Shake Table. Journal of Structural Engineering, 2018, 144, . | 3.4 | 7         |
| 18 | Nonlinear finite element model updating for damage identification of civil structures using batch Bayesian estimation. Mechanical Systems and Signal Processing, 2017, 84, 194-222.                         | 8.0 | 90        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Bayesian nonlinear structural FE model and seismic input identification for damage assessment of civil structures. <i>Mechanical Systems and Signal Processing</i> , 2017, 93, 661-687.                                  | 8.0 | 74        |
| 20 | A Nonlinear Model Inversion Method for Joint System Parameter, Noise, and Input Identification of Civil Structures. <i>Procedia Engineering</i> , 2017, 199, 924-929.  | 1.2 | 3         |
| 21 | System identification of a full-scale five-story reinforced concrete building tested on the NEES@UCSD shake table. <i>Structural Control and Health Monitoring</i> , 2016, 23, 535-559.                                  | 4.0 | 36        |
| 22 | Influence of the construction process and nonstructural components on the modal properties of a five-story building. <i>Earthquake Engineering and Structural Dynamics</i> , 2016, 45, 1063-1084.                        | 4.4 | 25        |
| 23 | Full-Scale Structural and Nonstructural Building System Performance during Earthquakes: Part I "Specimen Description, Test Protocol, and Structural Response. <i>Earthquake Spectra</i> , 2016, 32, 737-770.             | 3.1 | 72        |
| 24 | Full-Scale Structural and Nonstructural Building System Performance during Earthquakes: Part II "NCS Damage States. <i>Earthquake Spectra</i> , 2016, 32, 771-794.   | 3.1 | 51        |
| 25 | Extended Kalman filter for material parameter estimation in nonlinear structural finite element models using direct differentiation method. <i>Earthquake Engineering and Structural Dynamics</i> , 2015, 44, 1495-1522. | 4.4 | 94        |
| 26 | Output-only identification of civil structures using nonlinear finite element model updating. , 2015, , .  |     | 1         |
| 27 | Material Parameter Identification in Distributed Plasticity FE Models of Frame-Type Structures Using Nonlinear Stochastic Filtering. <i>Journal of Engineering Mechanics - ASCE</i> , 2015, 141, .                       | 2.9 | 86        |