

Cong Zhou

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

320
citations

840776

11
h-index

888059

17
g-index

32
all docs

32
docs citations

32
times ranked

131
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-world application of hysteresis loop analysis for stiffness identification of an instrumented building across multiple seismic events. <i>Journal of Building Engineering</i> , 2022, 45, 103524.	3.4	4
2	Prediction and estimation of pulmonary response and elastance evolution for volume-controlled and pressure-controlled ventilation. <i>Biomedical Signal Processing and Control</i> , 2022, 72, 103367.	5.7	14
3	Over-distension prediction via hysteresis loop analysis and patient-specific basis functions in a virtual patient model. <i>Computers in Biology and Medicine</i> , 2022, 141, 105022.	7.0	13
4	Reconstructing asynchrony for mechanical ventilation using a hysteresis loop virtual patient model. <i>BioMedical Engineering OnLine</i> , 2022, 21, 16.	2.7	8
5	A new pinched nonlinear hysteretic structural model for automated creation of digital clones in structural health monitoring. <i>Structural Health Monitoring</i> , 2021, 20, 101-117.	7.5	8
6	Support vector machines for automated modelling of nonlinear structures using health monitoring results. <i>Mechanical Systems and Signal Processing</i> , 2021, 149, 107201.	8.0	26
7	Virtual patients for mechanical ventilation in the intensive care unit. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 199, 105912.	4.7	43
8	Real-time structural health monitoring of nonlinear hysteretic structures using a fast and slow dynamics separation method. <i>IFAC Journal of Systems and Control</i> , 2021, 15, 100122.	1.7	0
9	Modeling viscous damping in actuated breast tissue to provide diagnostic insight for breast cancer: A proof-of-concept analysis. <i>Medical Physics</i> , 2021, 48, 4978-4992.	3.0	2
10	Evaluation of Pinching Effects on a Real Concrete Building Seismic Performance by Resimulating Displacement Responses Using HLA SHM Results. <i>Journal of Performance of Constructed Facilities</i> , 2021, 35, .	2.0	3
11	Impact of Two Lung Elastance Identification Methods on Pulmonary Mechanics Prediction. <i>IFAC-PapersOnLine</i> , 2021, 54, 97-102.	0.9	0
12	Predicting Pulmonary Distension in a Virtual Patient Model for Mechanical Ventilation. <i>IFAC-PapersOnLine</i> , 2021, 54, 91-96.	0.9	1
13	Minimal Lung Mechanics Basis-functions for a Mechanical Ventilation Virtual Patient. <i>IFAC-PapersOnLine</i> , 2021, 54, 127-132.	0.9	3
14	Identification of Asynchronous Effect via Pressure-Volume Loop Reconstruction in Mechanically Ventilated Breathing Waveforms. <i>IFAC-PapersOnLine</i> , 2021, 54, 186-191.	0.9	1
15	A combined SHM/IDA method for assessing collapse capacity and risk in subsequent ground motions. <i>Journal of Civil Structural Health Monitoring</i> , 2020, 10, 17-28.	3.9	3
16	Parameter updating of a patient-specific lung mechanics model for optimising mechanical ventilation. <i>Biomedical Signal Processing and Control</i> , 2020, 60, 102003.	5.7	14
17	Automated structural dynamic modelling using model-free health monitoring results. <i>Bulletin of the New Zealand Society for Earthquake Engineering</i> , 2020, 53, 189-202.	0.5	2
18	Rayleigh Damping Modelling for Tumor Detection using Digital Image Elasto Tomography (DIET). <i>IFAC-PapersOnLine</i> , 2020, 53, 16269-16274.	0.9	0

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19	A Nonlinear Hysteretic Model for Automated Prediction of Lung Mechanics during Mechanical Ventilation. IFAC-PapersOnLine, 2020, 53, 817-822.	0.9	4
20	Degradation evaluation of lateral story stiffness using HLA-based deep learning networks. Advanced Engineering Informatics, 2019, 39, 259-268.	8.0	27
21	Silicone phantom validation of breast cancer tumor detection using nominal stiffness identification in digital imaging elasto-tomography (DIET). Biomedical Signal Processing and Control, 2018, 39, 435-447.	5.7	16
22	Viscous Damping in Actuated Breast Tissue to Detect Tumors in a Digital Image Elasto Tomography (DIET) System. IFAC-PapersOnLine, 2018, 51, 264-269.	0.9	0
23	Structural health monitoring of tissue mechanics for non-invasive diagnosis of breast cancer. Automatisierungstechnik, 2018, 66, 1037-1050.	0.8	3
24	Effective Stiffness Identification for Structural Health Monitoring of Reinforced Concrete Building using Hysteresis Loop Analysis. Procedia Engineering, 2017, 199, 1074-1079.	1.2	6
25	Efficient hysteresis loop analysis-based damage identification of a reinforced concrete frame structure over multiple events. Journal of Civil Structural Health Monitoring, 2017, 7, 541-556.	3.9	16
26	Damage assessment by stiffness identification for a full-scale three-story steel moment resisting frame building subjected to a sequence of earthquake excitations. Bulletin of Earthquake Engineering, 2017, 15, 5393-5412.	4.1	20
27	Comparing model-based adaptive LMS filters and a model-free hysteresis loop analysis method for structural health monitoring. Mechanical Systems and Signal Processing, 2017, 84, 384-398.	8.0	27
28	Nominal Stiffness Identification for Tumor Detection of Women Breast in a Digital Image Elasto Tomography (DIET) System. IFAC-PapersOnLine, 2017, 50, 2031-2036.	0.9	3
29	Sensitivity Analysis for Stiffness Identification Using a DIET Breast Cancer Screening System. IFAC-PapersOnLine, 2017, 50, 2037-2042.	0.9	0
30	Physical Parameter Identification of Structural Systems with Hysteretic Pinching. Computer-Aided Civil and Infrastructure Engineering, 2015, 30, 247-262.	9.8	37
31	Overall damage identification of flag-shaped hysteresis systems under seismic excitation. Smart Structures and Systems, 2015, 16, 163-181.	1.9	10
32	Performance evaluation of CWH base isolated building during two major earthquakes in Christchurch. Bulletin of the New Zealand Society for Earthquake Engineering, 2015, 48, 264-273.	0.5	6