Yongchao Yang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Blind identification of full-field vibration modes from video measurements with phase-based video motion magnification. Mechanical Systems and Signal Processing, 2017, 85, 567-590.	4.4	273
2	Output-only modal identification with limited sensors using sparse component analysis. Journal of Sound and Vibration, 2013, 332, 4741-4765.	2.1	144
3	Blind identification of damage in time-varying systems using independent component analysis with wavelet transform. Mechanical Systems and Signal Processing, 2014, 47, 3-20.	4.4	113
4	CNN-LSTM deep learning architecture for computer vision-based modal frequency detection. Mechanical Systems and Signal Processing, 2020, 144, 106885.	4.4	112
5	Time-Frequency Blind Source Separation Using Independent Component Analysis for Output-Only Modal Identification of Highly Damped Structures. Journal of Structural Engineering, 2013, 139, 1780-1793.	1.7	109
6	Blind identification of full-field vibration modes of output-only structures from uniformly-sampled, possibly temporally-aliased (sub-Nyquist), video measurements. Journal of Sound and Vibration, 2017, 390, 232-256.	2.1	96
7	Structural damage identification via a combination of blind feature extraction and sparse representation classification. Mechanical Systems and Signal Processing, 2014, 45, 1-23.	4.4	93
8	Modeling and harnessing sparse and low-rank data structure: a new paradigm for structural dynamics, identification, damage detection, and health monitoring. Structural Control and Health Monitoring, 2017, 24, e1851.	1.9	88
9	Output-only modal identification by compressed sensing: Non-uniform low-rate random sampling. Mechanical Systems and Signal Processing, 2015, 56-57, 15-34.	4.4	86
10	Harnessing data structure for recovery of randomly missing structural vibration responses time history: Sparse representation versus low-rank structure. Mechanical Systems and Signal Processing, 2016, 74, 165-182.	4.4	77
11	Blind modal identification of outputâ€only structures in timeâ€domain based on complexity pursuit. Earthquake Engineering and Structural Dynamics, 2013, 42, 1885-1905.	2.5	73
12	Real-Time Output-Only Identification of Time-Varying Cable Tension from Accelerations via Complexity Pursuit. Journal of Structural Engineering, 2016, 142, .	1.7	68
13	Reference-free detection of minute, non-visible, damage using full-field, high-resolution mode shapes output-only identified from digital videos of structures. Structural Health Monitoring, 2018, 17, 514-531.	4.3	50
14	Blind denoising of structural vibration responses with outliers via principal component pursuit. Structural Control and Health Monitoring, 2014, 21, 962-978.	1.9	47
15	Robust data transmission and recovery of images by compressed sensing for structural health diagnosis. Structural Control and Health Monitoring, 2017, 24, e1856.	1.9	45
16	Dynamic Imaging: Real-Time Detection of Local Structural Damage with Blind Separation of Low-Rank Background and Sparse Innovation. Journal of Structural Engineering, 2016, 142, .	1.7	39
17	Estimation of fullâ€field, fullâ€order experimental modal model of cable vibration from digital video measurements with physicsâ€guided unsupervised machine learning and computer vision. Structural Control and Health Monitoring, 2019, 26, e2358.	1.9	30
18	Blind, simultaneous identification of full-field vibration modes and large rigid-body motion of output-only structures from digital video measurements. Engineering Structures, 2020, 207, 110183.	2.6	28

Yongchao Yang

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19	Full-field, high-spatial-resolution detection of local structural damage from low-resolution random strain field measurements. Journal of Sound and Vibration, 2017, 399, 75-85.	2.1	27
20	Data Compression of Structural Seismic Responses via Principled Independent Component Analysis. Journal of Structural Engineering, 2014, 140, .	1.7	26
21	Computer visionâ€based realâ€time cable tension estimation algorithm using complexity pursuit from video and its application in Fredâ€Hartman cableâ€stayed bridge. Structural Control and Health Monitoring, 2022, 29, .	1.9	25
22	Extracting full-field subpixel structural displacements from videos via deep learning. Journal of Sound and Vibration, 2021, 505, 116142.	2.1	24
23	Noncontact super-resolution guided wave array imaging of subwavelength defects using a multiscale deep learning approach. Structural Health Monitoring, 2021, 20, 1904-1923.	4.3	21
24	Efficient Full-Field Vibration Measurements and Operational Modal Analysis Using Neuromorphic Event-Based Imaging. Journal of Engineering Mechanics - ASCE, 2018, 144, .	1.6	19
25	Nonnegative matrix factorization-based blind source separation for full-field and high-resolution modal identification from video. Journal of Sound and Vibration, 2020, 487, 115586.	2.1	18
26	Data-driven identification of nonlinear normal modes via physics-integrated deep learning. Nonlinear Dynamics, 2021, 106, 3231-3246.	2.7	17
27	Data compression of very large-scale structural seismic and typhoon responses by low-rank representation with matrix reshape. Structural Control and Health Monitoring, 2015, 22, 1119-1131.	1.9	16
28	Estimation of fullâ€field dynamic strains from digital video measurements of outputâ€only beam structures by video motion processing and modal superposition. Structural Control and Health Monitoring, 2019, 26, e2408.	1.9	15
29	Sparse and Random Sampling Techniques for High-Resolution, Full-Field, BSS-Based Structural Dynamics Identification from Video. Sensors, 2020, 20, 3526.	2.1	15
30	Blind modal identification of output-only non-proportionally-damped structures by time-frequency complex independent component analysis. Smart Structures and Systems, 2015, 15, 81-97.	1.9	15
31	Real-time cable tension estimation from acceleration measurements using wireless sensors with packet data losses: analytics with compressive sensing and sparse component analysis. Journal of Civil Structural Health Monitoring, 2022, 12, 797-815.	2.0	13
32	Automated Extraction of Mode Shapes Using Motion Magnified Video and Blind Source Separation. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 355-360.	0.3	11
33	YAP/TAZ Related BioMechano Signal Transduction and Cancer Metastasis. Frontiers in Cell and Developmental Biology, 2019, 7, 199.	1.8	11
34	Hierarchical deep learning for data-driven identification of reduced-order models of nonlinear dynamical systems. Nonlinear Dynamics, 2021, 105, 3409-3422.	2.7	11
35	A framework for the identification of full-field structural dynamics using sequences of images in the presence of non-ideal operating conditions. Journal of Intelligent Material Systems and Structures, 2018, 29, 3456-3481.	1.4	10
36	3D structural vibration identification from dynamic point clouds. Mechanical Systems and Signal Processing, 2022, 166, 108352.	4.4	10

Yongchao Yang

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37	Spatiotemporal video-domain high-fidelity simulation and realistic visualization of full-field dynamic responses of structures by a combination of high-spatial-resolution modal model and video motion manipulations. Structural Control and Health Monitoring, 2018, 25, e2193.	1.9	9
38	Affinity propagation clustering of full-field, high-spatial-dimensional measurements for robust output-only modal identification: A proof-of-concept study. Journal of Sound and Vibration, 2020, 483, 115473.	2.1	8
39	Extraction of Full-Field Structural Dynamics from Digital Video Measurements in Presence of Large Rigid Body Motion. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 91-95.	0.3	4
40	Establishment of Full-Field, Full-Order Dynamic Model of Cable Vibration by Video Motion Manipulations. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 127-133.	0.3	4
41	Accelerated noncontact guided wave array imaging via sparse array data reconstruction. Ultrasonics, 2022, 121, 106672.	2.1	4
42	Full-field Structural Dynamics by Video Motion Manipulation. , 2017, , .		3
43	Efficient Full-Field Operational Modal Analysis Using Neuromorphic Event-Based Imaging. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 97-103.	0.3	3
44	Identification of Full-Field Dynamic Loads on Structures Using Computer Vision and Unsupervised Machine Learning. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 41-48.	0.3	2
45	Blind Identification of Output-Only Systems and Structural Damage via Sparse Representations. , 2015, , 280-298.		1
46	Light Field Imaging of Three-Dimensional Structural Dynamics. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 101-108.	0.3	0
47	Full-Field Mode Shape Identification of Vibrating Structures from Compressively Sampled Video. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 93-99.	0.3	0
48	Imager-Based Characterization of Viscoelastic Material Properties. Conference Proceedings of the Society for Experimental Mechanics, 2020, , 215-224.	0.3	0
49	Full-Field Mode Shape Analysis, Alignment and Averaging Across Measurements. Conference Proceedings of the Society for Experimental Mechanics, 2020, , 71-75.	0.3	0
50	Imager-Based Techniques for Analyzing Metallic Melt Pools for Additive Manufacturing. Conference Proceedings of the Society for Experimental Mechanics, 2020, , 63-69.	0.3	0
51	Blind Identification of Output-Only Systems and Structural Damage via Sparse Representations. , 2021, , 1-20.		0
52	Generation of selective single-mode guided waves by d ₃₆ type piezoelectric wafer. Applied Physics Letters, 2022, 120, 214101.	1.5	0