zhongrong Lv

List of Publications by Year
in descending order

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38 papers	1,121 citations	430442 18 h-index	395343 33 g-index
38 all docs	38 docs citations	38 times ranked	661 citing authors

#	Article	IF	Citations
1	Residual stress identification in thin plates based on modal data and sensitivity analysis. International Journal of Solids and Structures, 2022, 236-237, 111350.	1.3	0
2	Residual-tuned analytical approximation for the limit cycle of aeroelastic systems with hysteresis nonlinearity. Journal of Fluids and Structures, 2022, 108, 103440.	1.5	6
3	Model-calibration-free damage identification of shear structures by measurement changes correction and sparse regularization. Structures, 2022, 37, 255-266.	1.7	1
4	Sensitivity-based nonlinear restoring force identification of multistable piezoelectric energy harvesters. European Physical Journal Plus, 2022, 137, 1.	1.2	0
5	Parameter Identification Method for Nonsmooth Aeroelastic System. AIAA Journal, 2022, 60, 5357-5371.	1.5	3
6	A simple and effective Measurement-Changes-Correction strategy for damage identification with aleatoric and epistemic model errors. Structural Health Monitoring, 2021, 20, 1196-1220.	4.3	4
7	Parameter identification of nonlinear systems with time-delay from time-domain data. Nonlinear Dynamics, 2021, 104, 4045-4061.	2.7	16
8	Parameter identification of nonlinear structural systems through frequency response sensitivity analysis. Nonlinear Dynamics, 2021, 104, 3975.	2.7	9
9	Convergence rates of harmonic balance method for periodic solution of smooth and non-smooth systems. Communications in Nonlinear Science and Numerical Simulation, 2021, 99, 105826.	1.7	6
10	A new semi-analytical technique for nonlinear systems based on response sensitivity analysis. Nonlinear Dynamics, 2021, 103, 1529-1551.	2.7	10
11	Experimental investigation on use of regularization techniques and pre-post measurement changes for structural damage identification. International Journal of Solids and Structures, 2020, 185-186, 212-221.	1.3	11
12	Rapid parameter identification of linear time-delay system from noisy frequency domain data. Applied Mathematical Modelling, 2020, 83, 736-753.	2.2	10
13	Nonlinear breathing crack identification from time-domain sensitivity analysis. Applied Mathematical Modelling, 2020, 83, 30-45.	2.2	15
14	Parameter identification of fractional order system using enhanced response sensitivity approach. Communications in Nonlinear Science and Numerical Simulation, 2019, 67, 492-505.	1.7	29
15	On choice and effect of weight matrix for response sensitivity-based damage identification with measurement and model errors. Mechanical Systems and Signal Processing, 2019, 114, 1-24.	4.4	26
16	Physicalâ€based parametrization and local damage identification for frameâ€type structures using response sensitivity approach in time domain. Structural Control and Health Monitoring, 2019, 26, e2412.	1.9	4
17	Simultaneous identification of structural stiffness and mass parameters based on Bare-bones Gaussian Tree Seeds Algorithm using time-domain data. Applied Soft Computing Journal, 2019, 83, 105602.	4.1	16
18	Blind separation of structural modes by compact-bandwidth regularization. Mechanical Systems and Signal Processing, 2019, 131, 288-316.	4.4	7

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19	Nonlinear hysteretic parameter identification using an improved tree-seed algorithm. Swarm and Evolutionary Computation, 2019, 46, 69-83.	4.5	28
20	Structural damage identification with uncertain modelling error and measurement noise by clustering based tree seeds algorithm. Engineering Structures, 2019, 185, 301-314.	2.6	45
21	Frequency response-based damage identification in frames by minimum constitutive relation error and sparse regularization. Journal of Sound and Vibration, 2019, 443, 270-292.	2.1	11
22	Bird mating optimizer for structural damage detection using a hybrid objective function. Swarm and Evolutionary Computation, 2017, 35, 41-52.	4.5	23
23	Incremental response sensitivity approach for parameter identification of chaotic and hyperchaotic systems. Nonlinear Dynamics, 2017, 89, 153-167.	2.7	25
24	An enhanced response sensitivity approach for structural damage identification: convergence and performance. International Journal for Numerical Methods in Engineering, 2017, 111, 1231-1251.	1.5	57
25	Identification of nonlinear hysteretic parameters by enhanced response sensitivity approach. International Journal of Non-Linear Mechanics, 2017, 96, 1-11.	1.4	28
26	Hybrid sensitivity matrix for damage identification in axially functionally graded beams. Applied Mathematical Modelling, 2017, 41, 604-617.	2.2	27
27	A two-step approach for damage Identification in plates. JVC/Journal of Vibration and Control, 2016, 22, 3018-3031.	1.5	25
28	Damage identification in plates based on the ratio of modal strain energy change and sensitivity analysis. Inverse Problems in Science and Engineering, 2016, 24, 265-283.	1.2	17
29	Nonlinear wave forces on large-scale submerged tunnel element. Marine Structures, 2016, 45, 133-156.	1.6	18
30	Structural damage detection using artificial bee colony algorithm with hybrid search strategy. Swarm and Evolutionary Computation, 2016, 28, 1-13.	4.5	93
31	Damage identification in plates using finite element model updating in time domain. Journal of Sound and Vibration, 2013, 332, 7018-7032.	2.1	59
32	A two-step approach for crack identification in beam. Journal of Sound and Vibration, 2013, 332, 282-293.	2.1	44
33	Theoretical and experimental modal analysis of the Guangzhou New TV Tower. Engineering Structures, 2011, 33, 3628-3646.	2.6	111
34	Vibration analysis of multiple-stepped beams with the composite element model. Journal of Sound and Vibration, 2009, 322, 1070-1080.	2.1	46
35	Identification of local damages in coupled beam systems from measured dynamic responses. Journal of Sound and Vibration, 2009, 326, 177-189.	2.1	30
36	Identification of system parameters and input force from output only. Mechanical Systems and Signal Processing, 2007, 21, 2099-2111.	4.4	97

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37	Features of dynamic response sensitivity and its application in damage detection. Journal of Sound and Vibration, 2007, 303, 305-329.	2.1	163
38	Nonlinear hysteretic parameter identification using improved artificial bee colony algorithm. Advances in Structural Engineering, 0, , 136943322110204.	1.2	1