Alberto Luiz Serpa

List of Publications by Year
in descending order

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32 papers	447 citations	759233 12 h-index	752698 20 g-index
32 all docs	32 docs citations	32 times ranked	438 citing authors

#	Article	IF	Citations
1	Composites of scrap tire rubber particles and adhesive mortar â€“ Noise insulation potential. Cement and Concrete Composites, 2017, 82, 45-66.	10.7	48
2	Flexural wave band gaps in a ternary periodic metamaterial plate using the plane wave expansion method. Journal of Sound and Vibration, 2021, 495, 115909.	3.9	40
3	Application of the arc-length method in nonlinear frequency response. Journal of Sound and Vibration, 2005, 284, 133-149.	3.9	38
4	Elastic wave band gaps in a three-dimensional periodic metamaterial using the plane wave expansion method. International Journal of Mechanical Sciences, 2020, 184, 105841.	6.7	36
5	Ensemble of metamodels: the augmented least squares approach. Structural and Multidisciplinary Optimization, 2016, 53, 1019-1046.	3.5	33
6	Fault identification using a chain of decision trees in an electrical submersible pump operating in a liquid-gas flow. Journal of Petroleum Science and Engineering, 2020, 184, 106490.	4.2	28
7	Contact stiffness estimation in ANSYS using simplified models and artificial neural networks. Finite Elements in Analysis and Design, 2015, 97, 43-53.	3.2	27
8	Performance assessment of solution methods for load distribution problem of gear teeth. Mechanism and Machine Theory, 2008, 43, 80-94.	4.5	25
9	Voltage relations for debonding detection of piezoelectric sensors with segmented electrode. Mechanical Systems and Signal Processing, 2012, 31, 258-267.	8.0	18
10	Damage detection in plates using the electromechanical impedance technique based on decoupled measurements of piezoelectric transducers. Journal of Sound and Vibration, 2016, 384, 146-162.	3.9	18
11	Vehicle rollover avoidance by application of gain-scheduled LQR controllers using state observers. Vehicle System Dynamics, 2016, 54, 191-209.	3.7	16
12	Flow pattern classification in liquid-gas flows using flow-induced vibration. Experimental Thermal and Fluid Science, 2020, 112, 109950.	2.7	13
13	Investigation of tooth contact deviations from the plane of action and their effects on gear transmission error. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2005, 219, 501-509.	2.1	12
14	High-order mortar-based element applied to nonlinear analysis of structural contact mechanics. Computer Methods in Applied Mechanics and Engineering, 2015, 294, 19-55.	6.6	11
15	Ensemble of metamodels: extensions of the least squares approach to efficient global optimization. Structural and Multidisciplinary Optimization, 2018, 57, 131-159.	3.5	11
16	Optimization of local resonators for the reduction of lateral vibrations of a skyscraper. Journal of Sound and Vibration, 2019, 446, 57-72.	3.9	10
17	Discrete optimization for actuator and sensor positioning for vibration control using genetic algorithms. JVC/Journal of Vibration and Control, 2018, 24, 4050-4064.	2.6	8
18	Flow pattern classification in water-air vertical flows using a single ultrasonic transducer. Experimental Thermal and Fluid Science, 2020, 119, 110189.	2.7	8

#	Article	IF	Citations
19	<mml:math altimg="si0013.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd"	8.0	7
20	Reduced order â„‹â^ž controller design for vibration control using genetic algorithms. JVC/Journal of Vibration and Control, 2017, 23, 1693-1707.	2.6	7
21	Dispersed-phase velocities for gas-liquid vertical slug and dispersed-bubbles flows using an ultrasonic cross-correlation technique. Flow Measurement and Instrumentation, 2021, 79, 101949.	2.0	6
22	Discrete optimization for positioning of actuators and sensors in vibration control using the simulated annealing method. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	5
23	Determination of confidence bounds and artificial neural networks in non-linear optimization problems. Neurocomputing, 2021, 463, 495-504.	5.9	5
24	Contact with friction using the augmented Lagrangian Method: a conditional constrained minimization problem. Revista Brasileira De Ciencias Mecanicas/Journal of the Brazilian Society of Mechanical Sciences, 2000, 22, 273-289.	0.1	4
25	Reduced Model inH_{â^ž}Vibration Control Using Linear Matrix Inequalities. Shock and Vibration, 2006, 13, 469-484.	0.6	3
26	Elongated bubble velocity estimation in vertical liquid-gas flows using flow-induced vibration. Experimental Thermal and Fluid Science, 2022, 131, 110521.	2.7	3
27	Direct inverse control for active vibration suppression using artificial neural networks. JVC/Journal of Vibration and Control, 2021, 27, 31-42.	2.6	2
28	An evaluation of the influence of Eigensystem Realization Algorithm settings on multiple input multiple output system identification. JVC/Journal of Vibration and Control, 2022, 28, 3286-3301.	2.6	2
29	An iterative state-space identification method with data correlation for MIMO systems with measurement noise. Journal of the Franklin Institute, 2022, , .	3.4	2
30	Influence of the Main Contact Parameters in Finite Element Analysis of Elastic Bodies in Contact. Key Engineering Materials, 0, 681, 214-227.	0.4	1
31	Assessment of the precision and reliability of an impedance tube recently built. Revista Dos Trabalhos De IniciaÃ§Ã£o CientÃfica Da UNICAMP, 2019, , .	0.0	0
32	Characterization of elongated ascending bubbles in infinite medium using ultrasound. Technical Papers ... Rio Oil & Gas, 2020, 20, 232-233.	0.0	0