

Julian Sierra

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

623
citations

759233

12
h-index

580821

25
g-index

31
all docs

31
docs citations

31
times ranked

654
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance Analysis and Architecture of a Clustering Hybrid Algorithm Called FA+GA-DBSCAN Using Artificial Datasets. <i>Entropy</i> , 2022, 24, 875.	2.2	2
2	Toward a Structural Health Monitoring Methodology for Concrete Structures under Dynamic Loads Using Embedded FBG Sensors and Strain Mapping Techniques. <i>Sensors</i> , 2022, 22, 4569.	3.8	8
3	An unsupervised pattern recognition methodology based on factor analysis and a genetic-DBSCAN algorithm to infer operational conditions from strain measurements in structural applications. <i>Chinese Journal of Aeronautics</i> , 2021, 34, 165-181.	5.3	16
4	Toward Structural Health Monitoring of Civil Structures Based on Self-Sensing Concrete Nanocomposites: A Validation in a Reinforced-Concrete Beam. <i>International Journal of Concrete Structures and Materials</i> , 2021, 15, .	3.2	18
5	In-flight and wireless damage detection in a UAV composite wing using fiber optic sensors and strain field pattern recognition. <i>Mechanical Systems and Signal Processing</i> , 2020, 136, 106526.	8.0	66
6	Formulation and simulation of a hybrid solar PV-wind generation system with photovoltaic concentration for non-interconnected areas to the energy grid. <i>E3S Web of Conferences</i> , 2020, 181, 02002.	0.5	3
7	Analytical determination of viscous permeability of hybrid fibrous reinforcements. <i>International Journal of Thermofluids</i> , 2020, 7-8, 100042.	7.8	2
8	Technological and Operational Aspects That Limit Small Wind Turbines Performance. <i>Energies</i> , 2020, 13, 6123.	3.1	8
9	Hybrid Energy Systems Sizing for the Colombian Context: A Genetic Algorithm and Particle Swarm Optimization Approach. <i>Energies</i> , 2020, 13, 5648.	3.1	22
10	Structural Health Monitoring for Advanced Composite Structures: A Review. <i>Journal of Composites Science</i> , 2020, 4, 13.	3.0	128
11	Design Method of Dual Active Bridge Converters for Photovoltaic Systems with High Voltage Gain. <i>Energies</i> , 2020, 13, 1711.	3.1	15
12	Structural design and manufacturing process of a low scale bio-inspired wind turbine blades. <i>Composite Structures</i> , 2019, 208, 1-12.	5.8	17
13	Damage detection methodology under variable load conditions based on strain field pattern recognition using FBGs, nonlinear principal component analysis, and clustering techniques. <i>Smart Materials and Structures</i> , 2018, 27, 015002.	3.5	20
14	Multiway principal component analysis contributions for structural damage localization. <i>Structural Health Monitoring</i> , 2018, 17, 1151-1165.	7.5	13
15	Structural health monitoring using carbon nanotube/epoxy composites and strain-field pattern recognition. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0
16	Structural Health Monitoring in Composite Structures by Fiber-Optic Sensors. <i>Sensors</i> , 2018, 18, 1094.	3.8	99
17	Structural health monitoring on an unmanned aerial vehicle wing's beam based on fiber Bragg gratings and pattern recognition techniques. <i>Procedia Structural Integrity</i> , 2017, 5, 729-736.	0.8	4
18	Structural design of carbon/epoxy bio-inspired wind turbine blade using fluid/structure simulation. <i>International Journal of Energy Research</i> , 2016, 40, 1832-1845.	4.5	6

#	ARTICLE	IF	CITATIONS
19	An optimal baseline selection methodology for data-driven damage detection and temperature compensation in acousto-ultrasonics. <i>Smart Materials and Structures</i> , 2016, 25, 055034.	3.5	10
20	Damage detection in aerostructures from strain measurements. <i>Aircraft Engineering and Aerospace Technology</i> , 2016, 88, 441-451.	0.8	2
21	Damage and nonlinearities detection in wind turbine blades based on strain field pattern recognition. FBGs, OBR and strain gauges comparison. <i>Composite Structures</i> , 2016, 135, 156-166.	5.8	103
22	Methodologies for the Damage Detection Based on Fiber-Optic Sensors. Applications to the Fuselage Panel and Lower Wing Panel. , 2016, , 407-431.		1
23	Signal-based nonlinear modelling for damage assessment under variable temperature conditions by means of acousto-ultrasonics. <i>Structural Control and Health Monitoring</i> , 2015, 22, 1103-1118.	4.0	6
24	Damage detection in composite materials structures under variable loads conditions by using fiber Bragg gratings and principal component analysis, involving new unfolding and scaling methods. <i>Journal of Intelligent Material Systems and Structures</i> , 2015, 26, 1346-1359.	2.5	15
25	Structural Health Monitoring by Means of Strain Field Pattern Recognition on the basis of PCA and Automatic Clustering Techniques Based on SOM**The research included in this document was partially supported by the "Ministerio de Ciencia e Innovaci3n" in Spain through the coordinated projects DPI2011-28033-C03-02 and DPI2011-28033-C03-03; and by the European Commission through the project SARICTH. <i>IFAC Papers Online</i> , 2015, 48, 287-292.	0.9	7
26	Fiber Optics Sensors. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2013, , 265-316.	0.6	6
27	Damage detection by using FBGs and strain field pattern recognition techniques. <i>Smart Materials and Structures</i> , 2013, 22, 025011.	3.5	25
28	Susceptibility on the Strain Field Change as Function of the Coupling Between the Effect Produced by Damage Appearance and the Change in the Load Conditions. , 0, , .		1
29	Development of a Remote Acquisition and Transmission System of Strain Measurements in an Unmanned Aerial Vehicle for Damage Detection. , 0, , .		0