

Americo Cunha Jr

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

470
citations

840585

11
h-index

794469

19
g-index

127
all docs

127
docs citations

127
times ranked

342
citing authors

#	ARTICLE	IF	CITATIONS
1	Polynomial Chaos-Kriging metamodel for quantification of the debonding area in large wind turbine blades. <i>Structural Health Monitoring</i> , 2022, 21, 666-682.	4.3	8
2	CRFlowLib – Chemically Reacting Flow Library. <i>Software Impacts</i> , 2022, 11, 100206.	0.8	2
3	An Optimal Fractional LQR-Based Control Approach Applied to a Cart-Pendulum System. , 2022, , 185-195.		2
4	On the Physical Consistency of Evolution Laws Obtained with Sparse Regression. , 2022, , 463-473.		0
5	Effect of stochastic excitation on sub-harmonic solutions in a bistable energy harvester. <i>AIP Conference Proceedings</i> , 2022, , .	0.3	2
6	Controlling chaos for energy harvesting via digital extended time-delay feedback. <i>European Physical Journal: Special Topics</i> , 2022, 231, 1485-1490.	1.2	4
7	The starting dates of COVID-19 multiple waves. <i>Chaos</i> , 2022, 32, 031101.	1.0	10
8	ARBO: Arbovirus modeling and uncertainty quantification toolbox. <i>Software Impacts</i> , 2022, 12, 100252.	0.8	2
9	Modelling and Analysis of Vibrations on an Aerial Cable Car System with Moving Mass. , 2022, , 237-246.		0
10	EPIDEMIC: Epidemiology Educational Code. <i>The Journal of Open Source Education</i> , 2022, 5, 149.	0.2	5
11	An optimizationless stochastic volterra series approach for nonlinear model identification. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2022, 44, .	0.8	2
12	Global sensitivity analysis of asymmetric energy harvesters. <i>Nonlinear Dynamics</i> , 2022, 109, 443-458.	2.7	11
13	Enhancing the performance of a bistable energy harvesting device via the cross-entropy method. <i>Nonlinear Dynamics</i> , 2021, 103, 137-155.	2.7	20
14	Uncertainty Quantification for Fatigue Life of Offshore Wind Turbine Structure. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering</i> , 2021, 7, .	0.7	2
15	STONEHENGE – Suite for nonlinear analysis of energy harvesting systems. <i>Software Impacts</i> , 2021, 10, 100161.	0.8	9
16	On the detection of a nonlinear damage in an uncertain nonlinear beam using stochastic Volterra series. <i>Structural Health Monitoring</i> , 2020, 19, 1137-1150.	4.3	12
17	Embedded model discrepancy: A case study of Zika modeling. <i>Chaos</i> , 2020, 30, 051103.	1.0	14
18	Uncertainty Quantification With Sparsely Characterized Parameters: An Example Applied to Femoral Stem Mechanics. <i>Journal of Verification, Validation and Uncertainty Quantification</i> , 2020, 5, .	0.3	1

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19	Application of a Stochastic Version of the Restoring Force Surface Method to Identify a Duffing Oscillator. , 2020, , 299-307.		4
20	Damage detection in uncertain nonlinear systems based on stochastic Volterra series. Mechanical Systems and Signal Processing, 2019, 125, 288-310.	4.4	25
21	Robust optimization and uncertainty quantification in the nonlinear mechanics of an elevator brake system. Meccanica, 2019, 54, 1057-1069.	1.2	12
22	Parametric probabilistic approach for cumulative fatigue damage using double linear damage rule considering limited data. International Journal of Fatigue, 2019, 127, 246-258.	2.8	28
23	Damage detection in an uncertain nonlinear beam based on stochastic Volterra series: An experimental application. Mechanical Systems and Signal Processing, 2019, 128, 463-478.	4.4	15
24	Flight control of a hexa-rotor airship: Uncertainty quantification for a range of temperature and pressure conditions. ISA Transactions, 2019, 93, 268-279.	3.1	13
25	Nonlinear Characterization of a Bistable Energy Harvester Dynamical System. Springer Proceedings in Physics, 2019, , 71-88.	0.1	13
26	Control of chaos via OGY method on a bistable energy harvester. , 2019, , .		6
27	An inverse problem via cross-entropy method for calibration of a drill string torsional dynamic model. , 2019, , .		1
28	Exploring the nonlinear dynamics of bistable energy harvester. , 2019, , .		2
29	Risk-Based Analysis of Femoral Stem Considering Uncertainty in its Design Parameters. , 2019, , .		0
30	Probabilistic Design and Uncertainty Quantification of the Structure of a Monopile Offshore Wind Turbine. , 2019, , .		2
31	Uncertainty Quantification of Wind Turbine Wakes Under Random Wind Conditions. , 2019, , .		0
32	Dynamic analysis and characterization of a nonlinear bi-stable piezo-magneto-elastic energy harvester. MATEC Web of Conferences, 2018, 241, 01001.	0.1	3
33	Non-intrusive polynomial chaos expansion for topology optimization using polygonal meshes. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	0.8	7
34	Calibration of a SEIR-SEI epidemic model to describe the Zika virus outbreak in Brazil. Applied Mathematics and Computation, 2018, 338, 249-259.	1.4	43
35	Uncertainty Quantification in the Comparison of Structural Criteria of Failure. , 2018, , .		4
36	On dynamic analysis and control of an elevator system using polynomial chaos and Karhunen-Loève approaches. Procedia Engineering, 2017, 199, 1629-1634.	1.2	9

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37	Damage detection in an uncertain nonlinear beam. Procedia Engineering, 2017, 199, 2090-2095.	1.2	5
38	Modeling and Quantification of Physical Systems Uncertainties in a Probabilistic Framework. , 2017, , 127-156.		8
39	Quantification of parametric uncertainties induced by irregular soil loading in orchard tower sprayer nonlinear dynamics. Journal of Sound and Vibration, 2017, 408, 252-269.	2.1	4
40	On the nonlinear dynamics of a bi-stable piezoelectric energy harvesting device. , 2017, , .		6
41	Computational modeling of the nonlinear stochastic dynamics of horizontal drillstrings. Computational Mechanics, 2015, 56, 849-878.	2.2	29
42	On the nonlinear stochastic dynamics of a continuous system with discrete attached elements. Applied Mathematical Modelling, 2015, 39, 809-819.	2.2	4
43	Study of the nonlinear longitudinal dynamics of a stochastic system. MATEC Web of Conferences, 2014, 16, 05004.	0.1	0
44	Uncertainty quantification through the Monte Carlo method in a cloud computing setting. Computer Physics Communications, 2014, 185, 1355-1363.	3.0	67
45	Assessment of a transient homogeneous reactor through in situ adaptive tabulation. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2014, 36, 377-391.	0.8	7
46	ANALYSIS OF THE NONLINEAR STOCHASTIC DYNAMICS OF AN ELASTIC BAR WITH AN ATTACHED END MASS. , 2013, , .		1
47	IDENTIFICATION OF A NONLINEAR BEAM THROUGH A STOCHASTIC MODEL BASED ON A DUFFING OSCILLATOR. , 0, , .		2
48	Maximization of the electrical power generated by a piezo-magneto-elastic energy harvesting device. , 0, , .		5
49	Numerical study of parameters influence over the dynamics of a piezo-magneto-elastic energy harvesting device. , 0, , .		4
50	Zika virus in Brazil: calibration of an epidemic model for the 2016 outbreak. , 0, , .		1
51	Structural optimization using the cross-entropy method. , 0, , .		1
52	Uncertainty Analysis in Volterra Series Applied in a Nonlinear System.. , 0, , .		0
53	Effects of a random loading emulating an irregular terrain in the nonlinear dynamics of a tower sprayer. , 0, , .		1
54	On the nonlinear dynamics of an inverted double pendulum over a vehicle suspension subject to random excitations. , 0, , .		1

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55	Mathematical modeling of horizontal drillstrings subjected to friction and shocks effects. , 0, , .		0
56	Uso do Método de Superfície de Resposta para Estimar um Modelo Estocástico de uma Viga Não Linear com Rigidez Cúbica. , 0, , .		0
57	Dynamic Modeling and Flight Control of a Balloon-Quadrotor Unmanned Aerial Vehicle. Anais Do ... Congresso Ibero-Latino-Americano De Métodos Computacionais Em Engenharia, 0, , .	0.0	0
58	Inferência dos Estágios Iniciais da COVID-19 em Portugal. , 0, , .		3
59	On the reduction of nonlinear electromechanical systems. Meccanica, 0, , .	1.2	4