

Felipe A C Viana

List of Publications by Year in descending order

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55
papers

2,266
citations

361045

20
h-index

414034

32
g-index

55
all docs

55
docs citations

55
times ranked

1384
citing authors

#	ARTICLE	IF	CITATIONS
1	A hybrid physics-informed neural network for main bearing fatigue prognosis under grease quality variation. <i>Mechanical Systems and Signal Processing</i> , 2022, 171, 108875.	4.4	35
2	Operational guide to stabilize, standardize and increase power plant efficiency. <i>Applied Energy</i> , 2022, 315, 118973.	5.1	2
3	Ensemble of hybrid neural networks to compensate for epistemic uncertainties: a case study in system prognosis. <i>Soft Computing</i> , 2022, 26, 6157-6173.	2.1	4
4	Early life failures and services of industrial asset fleets. <i>Reliability Engineering and System Safety</i> , 2021, 205, 107225.	5.1	5
5	Estimating model inadequacy in ordinary differential equations with physics-informed neural networks. <i>Computers and Structures</i> , 2021, 245, 106458.	2.4	42
6	A Multi-step Machine Learning Approach for Short Axis MR Images Segmentation. <i>Lecture Notes in Computer Science</i> , 2021, , 122-133.	1.0	2
7	Quadcopter Soft Vertical Landing Control with Hybrid Physics-informed Machine Learning. , 2021, , .		3
8	A Nonstationary Uncertainty Model and Bayesian Calibration of Strain-Life Models. <i>Journal of Verification, Validation and Uncertainty Quantification</i> , 2021, 6, .	0.3	0
9	A Probabilistic Hybrid Model for Main Bearing Fatigue Considering Uncertainty in Grease Quality. , 2021, , .		0
10	Hybrid physics-informed neural networks for main bearing fatigue prognosis with visual grease inspection. <i>Computers in Industry</i> , 2021, 125, 103386.	5.7	43
11	A Survey of Bayesian Calibration and Physics-informed Neural Networks in Scientific Modeling. <i>Archives of Computational Methods in Engineering</i> , 2021, 28, 3801-3830.	6.0	27
12	Adjusting a torsional vibration damper model with physics-informed neural networks. <i>Mechanical Systems and Signal Processing</i> , 2021, 154, 107552.	4.4	20
13	Usage-based Lifting of Lithium-Ion Battery with Hybrid Physics-Informed Neural Networks. , 2021, , .		2
14	Surrogate modeling: tricks that endured the test of time and some recent developments. <i>Structural and Multidisciplinary Optimization</i> , 2021, 64, 2881-2908.	1.7	24
15	A survey of modeling for prognosis and health management of industrial equipment. <i>Advanced Engineering Informatics</i> , 2021, 50, 101404.	4.0	31
16	Hybrid physics-informed neural networks for lithium-ion battery modeling and prognosis. <i>Journal of Power Sources</i> , 2021, 513, 230526.	4.0	61
17	A tutorial on solving ordinary differential equations using Python and hybrid physics-informed neural network. <i>Engineering Applications of Artificial Intelligence</i> , 2020, 96, 103996.	4.3	59
18	Cumulative Damage Modeling with Recurrent Neural Networks. <i>AIAA Journal</i> , 2020, 58, 5459-5471.	1.5	26

#	ARTICLE	IF	CITATIONS
19	Satellite Image Classification and Segmentation with Transfer Learning. , 2020, , .		6
20	Estimating Parameters and Discrepancy of Computer Models with Graphs and Neural Networks. , 2020, , .		4
21	Quadcopter Control Optimization through Machine Learning. , 2020, , .		5
22	Physics-Informed Neural Networks for Bias Compensation in Corrosion-Fatigue. , 2020, , .		7
23	Physics-Informed Neural Networks for Missing Physics Estimation in Cumulative Damage Models: A Case Study in Corrosion Fatigue. Journal of Computing and Information Science in Engineering, 2020, 20, .	1.7	64
24	Onshore wind turbine main bearing reliability and its implications in fleet management. , 2019, , .		5
25	Wind Turbine Main Bearing Fatigue Life Estimation with Physics-informed Neural Networks. Proceedings of the Annual Conference of the Prognostics and Health Management Society Prognostics and Health Management Society Conference, 2019, 11, .	0.2	11
26	Physics-Informed Neural Networks for Corrosion-Fatigue Prognosis. Proceedings of the Annual Conference of the Prognostics and Health Management Society Prognostics and Health Management Society Conference, 2019, 11, .	0.2	13
27	Developing a Probabilistic Load Spectrum for Fatigue Modeling. , 2017, , .		2
28	Information gain-based inspection scheduling for fatigued aircraft components. , 2017, , .		3
29	A Tutorial on Latin Hypercube Design of Experiments. Quality and Reliability Engineering International, 2016, 32, 1975-1985.	1.4	113
30	Special Section on Multidisciplinary Design Optimization: Metamodeling in Multidisciplinary Design Optimization: How Far Have We Really Come?. AIAA Journal, 2014, 52, 670-690.	1.5	314
31	Power System Identification Through Simultaneous Model Selection and Bayesian Calibration. , 2014, , .		1
32	Efficient global optimization algorithm assisted by multiple surrogate techniques. Journal of Global Optimization, 2013, 56, 669-689.	1.1	212
33	Lightweight design of vehicle parameters under crashworthiness using conservative surrogates. Computers in Industry, 2013, 64, 280-289.	5.7	34
34	Temperature-Based Optimization of Film Cooling in Gas Turbine Hot Gas Path Components. , 2013, , .		0
35	Multimodal Particle Swarm Optimization: Enhancements and Applications. , 2012, , .		6
36	Probability of Failure Uncertainty Quantification with Kriging. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
37	Sequential sampling for contour estimation with concurrent function evaluations. Structural and Multidisciplinary Optimization, 2012, 45, 615-618.	1.7	16
38	Enabling high-order integration of fatigue crack growth with surrogate modeling. International Journal of Fatigue, 2012, 43, 150-159.	2.8	15
39	Efficient Global Optimization with Experimental Data: Revisiting the Paper Helicopter Design. , 2011, , .		6
40	An algorithm for fast optimal Latin hypercube design of experiments. International Journal for Numerical Methods in Engineering, 2010, 82, 135-156.	1.5	237
41	Using Cross Validation to Design Conservative Surrogates. AIAA Journal, 2010, 48, 2286-2298.	1.5	40
42	Surrogate modelling for characterising the performance of a dielectric barrier discharge plasma actuator. International Journal of Computational Fluid Dynamics, 2010, 24, 281-301.	0.5	5
43	Making the Most Out of Surrogate Models: Tricks of the Trade. , 2010, , .		43
44	Design Optimization of a Bendable UAV Wing Under Uncertainty. , 2010, , .		0
45	Control-Oriented Design Using H-infinity Synthesis and Multiple Surrogates. , 2010, , .		4
46	Why Not Run the Efficient Global Optimization Algorithm with Multiple Surrogates?. , 2010, , .		31
47	Cross Validation Can Estimate How Well Prediction Variance Correlates with Error. AIAA Journal, 2009, 47, 2266-2270.	1.5	22
48	Optimization of aircraft structural components by using nature-inspired algorithms and multi-fidelity approximations. Journal of Global Optimization, 2009, 45, 427-449.	1.1	32
49	Multiple surrogates: how cross-validation errors can help us to obtain the best predictor. Structural and Multidisciplinary Optimization, 2009, 39, 439-457.	1.7	339
50	Importing Uncertainty Estimates from One Surrogate to Another. , 2009, , .		10
51	Tuning dynamic vibration absorbers by using ant colony optimization. Computers and Structures, 2008, 86, 1539-1549.	2.4	48
52	Design and Analysis of Computer Experiments in Multidisciplinary Design Optimization: A Review of How Far We Have Come - Or Not. , 2008, , .		191
53	Identification of a Non-Linear Landing Gear Model Using Nature-Inspired Optimization. Shock and Vibration, 2008, 15, 257-272.	0.3	3
54	Identification of external forces in mechanical systems by using LifeCycle model and stress-stiffening effect. Mechanical Systems and Signal Processing, 2007, 21, 2900-2917.	4.4	14

#	ARTICLE	IF	CITATIONS
55	Fleet Prognosis with Physics-informed Recurrent Neural Networks. , 0, , .		23