

Juan ChiachÃ-o

List of Publications by Year in descending order

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39
papers

916
citations

471509

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477307

29
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all docs

40
docs citations

40
times ranked

679
citing authors

#	ARTICLE	IF	CITATIONS
1	Adaptive approximate Bayesian computation by subset simulation for structural model calibration. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2022, 37, 726-745.	9.8	8
2	Uncertainty quantification in Neural Networks by Approximate Bayesian Computation: Application to fatigue in composite materials. <i>Engineering Applications of Artificial Intelligence</i> , 2022, 107, 104511.	8.1	25
3	A deep learning based methodology for artefact identification and suppression with application to ultrasonic images. <i>NDT and E International</i> , 2022, 126, 102575.	3.7	19
4	A Bayesian approach for damage assessment in welded structures using Lamb-wave surrogate models and minimal sensing. <i>NDT and E International</i> , 2022, 128, 102626.	3.7	14
5	Reduction of Petri net maintenance modeling complexity via Approximate Bayesian Computation. <i>Reliability Engineering and System Safety</i> , 2022, 222, 108365.	8.9	8
6	Robust optimised design of 3D printed elastic metastructures: A trade-off between complexity and vibration attenuation. <i>Journal of Sound and Vibration</i> , 2022, 529, 116896.	3.9	4
7	Structural digital twin framework: Formulation and technology integration. <i>Automation in Construction</i> , 2022, 140, 104333.	9.8	27
8	A cross-sectoral review of the current and potential maintenance strategies for composite structures. <i>SN Applied Sciences</i> , 2022, 4, .	2.9	4
9	Deep learning in automated ultrasonic NDE – Developments, axioms and opportunities. <i>NDT and E International</i> , 2022, 131, 102703.	3.7	43
10	OptiSens – Convex optimization of sensor and actuator placement for ultrasonic guided-wave based structural health monitoring. <i>SoftwareX</i> , 2021, 13, 100643.	2.6	1
11	Structural Health Monitoring Using Ultrasonic Guided-Waves and the Degree of Health Index. <i>Sensors</i> , 2021, 21, 993.	3.8	19
12	Probabilistic identification of surface recession patterns in heritage buildings based on digital photogrammetry. <i>Journal of Building Engineering</i> , 2021, 34, 101922.	3.4	16
13	Ordering Artificial Intelligence Based Recommendations to Tackle the SDGs with a Decision-Making Model Based on Surveys. <i>Sustainability</i> , 2021, 13, 6038.	3.2	9
14	Bayesian damage localization and identification based on a transient wave propagation model for composite beam structures. <i>Composite Structures</i> , 2021, 267, 113849.	5.8	19
15	A Markov chains prognostics framework for complex degradation processes. <i>Reliability Engineering and System Safety</i> , 2020, 195, 106621.	8.9	37
16	Optimal sensor configuration for ultrasonic guided-wave inspection based on value of information. <i>Mechanical Systems and Signal Processing</i> , 2020, 135, 106377.	8.0	31
17	Bayesian inference for damage identification based on analytical probabilistic model of scattering coefficient estimators and ultrafast wave scattering simulation scheme. <i>Journal of Sound and Vibration</i> , 2020, 468, 115083.	3.9	38
18	An Empirical Study on Transmission Beamforming for Ultrasonic Guided-Wave Based Structural Health Monitoring. <i>Sensors</i> , 2020, 20, 1445.	3.8	10

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19	A fast Bayesian inference scheme for identification of local structural properties of layered composites based on wave and finite element-assisted metamodeling strategy and ultrasound measurements. <i>Mechanical Systems and Signal Processing</i> , 2020, 143, 106802.	8.0	21
20	Optimal sensor and actuator placement for structural health monitoring via an efficient convex cost-benefit optimization. <i>Mechanical Systems and Signal Processing</i> , 2020, 144, 106901.	8.0	30
21	Plausible Petri nets as self-adaptive expert systems: A tool for infrastructure asset monitoring. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2019, 34, 281-298.	9.8	10
22	A Bayesian Assessment of an Approximate Model for Unconfined Water Flow in Sloping Layered Porous Media. <i>Transport in Porous Media</i> , 2019, 126, 177-197.	2.6	4
23	A robust Bayesian methodology for damage localization in plate-like structures using ultrasonic guided-waves. <i>Mechanical Systems and Signal Processing</i> , 2019, 122, 192-205.	8.0	64
24	A knowledge-based prognostics framework for railway track geometry degradation. <i>Reliability Engineering and System Safety</i> , 2019, 181, 127-141.	8.9	21
25	A new paradigm for uncertain knowledge representation by Plausible Petri nets. <i>Information Sciences</i> , 2018, 453, 323-345.	6.9	17
26	A new algorithm for prognostics using Subset Simulation. <i>Reliability Engineering and System Safety</i> , 2017, 168, 189-199.	8.9	15
27	A multilevel Bayesian method for ultrasound-based damage identification in composite laminates. <i>Mechanical Systems and Signal Processing</i> , 2017, 88, 462-477.	8.0	31
28	An energy-based prognostic framework to predict evolution of damage in composite materials. , 2016, , 447-477.		1
29	An information theoretic approach for knowledge representation using Petri nets. , 2016, , .		3
30	Logical inference for inverse problems. <i>Inverse Problems in Science and Engineering</i> , 2016, 24, 448-464.	1.2	17
31	Model-based damage evaluation of layered CFRP structures. , 2015, , .		3
32	Condition-based prediction of time-dependent reliability in composites. <i>Reliability Engineering and System Safety</i> , 2015, 142, 134-147.	8.9	57
33	Bayesian model selection and parameter estimation for fatigue damage progression models in composites. <i>International Journal of Fatigue</i> , 2015, 70, 361-373.	5.7	49
34	Prognostics Design for Structural Health Management. <i>Advances in Civil and Industrial Engineering Book Series</i> , 2015, , 234-273.	0.2	3
35	Approximate Bayesian Computation by Subset Simulation. <i>SIAM Journal of Scientific Computing</i> , 2014, 36, A1339-A1358.	2.8	71
36	Predicting fatigue damage in composites: A Bayesian framework. <i>Structural Safety</i> , 2014, 51, 57-68.	5.3	33

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37	Reliability-Based Design Optimization of a CFRP Bridge. IABSE Symposium Report, 2014, , .	0.0	0
38	Reliability in composites “ A selective review and survey of current development. Composites Part B: Engineering, 2012, 43, 902-913.	12.0	133
39	An Inverse-Problem Based Stochastic Approach to Model the Cumulative Damage Evolution of Composites. Procedia Engineering, 2011, 14, 1557-1563.	1.2	1