

Nikolaos Dervilis

List of Publications by Year in descending order

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36
papers

782
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759055

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39
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39
times ranked

747
citing authors

#	ARTICLE	IF	CITATIONS
1	On statistic alignment for domain adaptation in structural health monitoring. <i>Structural Health Monitoring</i> , 2023, 22, 1581-1600.	4.3	7
2	Population-Based Structural Health Monitoring. <i>Structural Integrity</i> , 2022, , 413-435.	0.8	4
3	Predicting local material thickness from steady-state ultrasonic wavefield measurements using a convolutional neural network. <i>Ultrasonics</i> , 2022, 123, 106661.	2.1	3
4	Impact of blade structural and aerodynamic uncertainties on wind turbine loads. <i>Wind Energy</i> , 2022, 25, 1060-1076.	1.9	4
5	Domain-adapted Gaussian mixture models for population-based structural health monitoring. <i>Journal of Civil Structural Health Monitoring</i> , 2022, 12, 1343-1353.	2.0	6
6	Informative Bayesian tools for damage localisation by decomposition of Lamb wave signals. <i>Journal of Sound and Vibration</i> , 2022, 535, 117063.	2.1	7
7	A sampling-based approach for information-theoretic inspection management. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2022, 478, .	1.0	0
8	Probabilistic Inference for Structural Health Monitoring: New Modes of Learning from Data. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2021, 7, 03120003.	1.1	5
9	Machining centre performance monitoring with calibrated artefact probing. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2021, 235, 1569-1587.	1.5	4
10	On generative models as the basis for digital twins. <i>Data-Centric Engineering</i> , 2021, 2, .	1.2	13
11	Damage detection in operational wind turbine blades using a new approach based on machine learning. <i>Renewable Energy</i> , 2021, 168, 1249-1264.	4.3	35
12	Machine Learning Approach to Model Order Reduction of Nonlinear Systems via Autoencoder and LSTM Networks. <i>Journal of Engineering Mechanics - ASCE</i> , 2021, 147, .	1.6	26
13	Towards Population-Based Structural Health Monitoring, Part III: Graphs, Networks and Communities. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2021, , 255-267.	0.3	10
14	A Brief Introduction to Recent Developments in Population-Based Structural Health Monitoring. <i>Frontiers in Built Environment</i> , 2020, 6, .	1.2	15
15	Towards the Probabilistic Analysis of Small Bowel Capsule Endoscopy Features to Predict Severity of Duodenal Histology in Patients with Villous Atrophy. <i>Journal of Medical Systems</i> , 2020, 44, 195.	2.2	3
16	Towards Population-Based Structural Health Monitoring, Part I: Homogeneous Populations and Forms. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2020, , 287-302.	0.3	12
17	Nonlinear modal analysis via non- ϵ parametric machine learning tools. <i>Strain</i> , 2019, 55, e12297.	1.4	16
18	Model selection and parameter estimation in structural dynamics using approximate Bayesian computation. <i>Mechanical Systems and Signal Processing</i> , 2018, 99, 306-325.	4.4	55

#	ARTICLE	IF	CITATIONS
19	A new methodology for automating acoustic emission detection of metallic fatigue fractures in highly demanding aerospace environments: An overview. Progress in Aerospace Sciences, 2017, 90, 1-11.	6.3	72
20	Performance monitoring of a wind turbine using extreme function theory. Renewable Energy, 2017, 113, 1490-1502.	4.3	36
21	Aspects of computational intelligence in structural dynamics: Structural health monitoring. , 2017, , .		0
22	Automatic Kernel Selection for Gaussian Processes Regression with Approximate Bayesian Computation and Sequential Monte Carlo. Frontiers in Built Environment, 2017, 3, .	1.2	34
23	A Non-linear Manifold Strategy for SHM Approaches. Strain, 2015, 51, 324-331.	1.4	10
24	On robust regression analysis as a means of exploring environmental and operational conditions for SHM data. Journal of Sound and Vibration, 2015, 347, 279-296.	2.1	98
25	Structural Health Monitoring: from Structures to Systems-of-Systems â...âThe support of the UK Engineering and Physical Sciences Research Council (EPSRC) through grant reference numbers EP/J016942/1 and EP/K003836/2, and that of the EU Framework 7 Programme for the ITN project SYSWIND, is gratefully acknowledged.. IFAC-PapersOnLine, 2015, 48, 1-17.	0.5	26
26	A Performance Monitoring Approach for the Novel Lillgrund Offshore Wind Farm. IEEE Transactions on Industrial Electronics, 2015, 62, 6636-6644.	5.2	61
27	On damage diagnosis for a wind turbine blade using pattern recognition. Journal of Sound and Vibration, 2014, 333, 1833-1850.	2.1	133
28	Robust methods of inclusive outlier analysis for structural health monitoring. Journal of Sound and Vibration, 2014, 333, 5181-5195.	2.1	54
29	Machine Learning Applications for a Wind Turbine Blade under Continuous Fatigue Loading. Key Engineering Materials, 2013, 588, 166-174.	0.4	8
30	Damage Detection in RAPTOR Telescope Systems Using Time-Frequency Analysis Methods. Key Engineering Materials, 2013, 588, 43-53.	0.4	2
31	On damage detection in wind turbine gearboxes using outlier analysis. , 2012, , .		4
32	Structural Health Monitoring of Composite Material Typical of Wind Turbine Blades by Novelty Detection on Vibration Response. Key Engineering Materials, 2012, 518, 319-327.	0.4	0
33	Advanced Tools for Damage Detection in Wind Turbines. Key Engineering Materials, 0, 569-570, 547-554.	0.4	0
34	Comparative Study of Robust Novelty Detection Techniques. Key Engineering Materials, 0, 569-570, 1109-1115.	0.4	0
35	An SHM View of a CFD Model of Lillgrund Wind Farm. Applied Mechanics and Materials, 0, 564, 164-169.	0.2	2
36	Envelope Analysis Using the Teager-Kaiser Energy Operator for Condition Monitoring of a Wind Turbine Bearing. Applied Mechanics and Materials, 0, 564, 170-175.	0.2	5