Nikolaos Dervilis

List of Publications by Year
in descending order

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36
papers

782
citations

759190

12
h-index

526264

27
g-index

39
all docs

39
docs citations

39
times ranked

747
citing authors

#	Article	IF	Citations
1	On damage diagnosis for a wind turbine blade using pattern recognition. Journal of Sound and Vibration, 2014, 333, 1833-1850.	3.9	133
2	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.	3.9	98
3	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.	12.1	72
4	A Performance Monitoring Approach for the Novel Lillgrund Offshore Wind Farm. IEEE Transactions on Industrial Electronics, 2015, 62, 6636-6644.	7.9	61
5	Model selection and parameter estimation in structural dynamics using approximate Bayesian computation. Mechanical Systems and Signal Processing, 2018, 99, 306-325.	8.0	55
6	Robust methods of inclusive outlier analysis for structural health monitoring. Journal of Sound and Vibration, 2014, 333, 5181-5195.	3.9	54
7	Performance monitoring of a wind turbine using extreme function theory. Renewable Energy, 2017, 113, 1490-1502.	8.9	36
8	Damage detection in operational wind turbine blades using a new approach based on machine learning. Renewable Energy, 2021, 168, 1249-1264.	8.9	35
9	Automatic Kernel Selection for Gaussian Processes Regression with Approximate Bayesian Computation and Sequential Monte Carlo. Frontiers in Built Environment, 2017, 3, .	2.3	34
10	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.	0.9	26
11	Machine Learning Approach to Model Order Reduction of Nonlinear Systems via Autoencoder and LSTM Networks. Journal of Engineering Mechanics - ASCE, 2021, 147, .	2.9	26
12	Nonlinear modal analysis via nonâ€parametric machine learning tools. Strain, 2019, 55, e12297.	2.4	16
13	A Brief Introduction to Recent Developments in Population-Based Structural Health Monitoring. Frontiers in Built Environment, 2020, 6, .	2.3	15
14	On generative models as the basis for digital twins. Data-Centric Engineering, 2021, 2, .	2.3	13
15	Towards Population-Based Structural Health Monitoring, Part I: Homogeneous Populations and Forms. Conference Proceedings of the Society for Experimental Mechanics, 2020, , 287-302.	0.5	12
16	A Nonâ€linear Manifold Strategy for SHM Approaches. Strain, 2015, 51, 324-331.	2.4	10
17	Towards Population-Based Structural Health Monitoring, Part III: Graphs, Networks and Communities. Conference Proceedings of the Society for Experimental Mechanics, 2021, , 255-267.	0.5	10
18	Machine Learning Applications for a Wind Turbine Blade under Continuous Fatigue Loading. Key Engineering Materials, 2013, 588, 166-174.	0.4	8

#	ARTICLE	IF	CITATIONS
19	Informative Bayesian tools for damage localisation by decomposition of Lamb wave signals. Journal of Sound and Vibration, 2022, 535, 117063.	3.9	7
20	On statistic alignment for domain adaptation in structural health monitoring. Structural Health Monitoring, 2023, 22, 1581-1600.	7.5	7
21	Domain-adapted Gaussian mixture models for population-based structural health monitoring. Journal of Civil Structural Health Monitoring, 2022, 12, 1343-1353.	3.9	6
22	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
23	Probabilistic Inference for Structural Health Monitoring: New Modes of Learning from Data. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2021, 7, 03120003.	1.7	5
24	On damage detection in wind turbine gearboxes using outlier analysis. , 2012, , .		4
25	Machining centre performance monitoring with calibrated artefact probing. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2021, 235, 1569-1587.	2.4	4
26	Population-Based Structural Health Monitoring. Structural Integrity, 2022, , 413-435.	1.4	4
27	Impact of blade structural and aerodynamic uncertainties on wind turbine loads. Wind Energy, 2022, 25, 1060-1076.	4.2	4
28	Towards the Probabilistic Analysis of Small Bowel Capsule Endoscopy Features to Predict Severity of Duodenal Histology in Patients with Villous Atrophy. Journal of Medical Systems, 2020, 44, 195.	3.6	3
29	Predicting local material thickness from steady-state ultrasonic wavefield measurements using a convolutional neural network. Ultrasonics, 2022, 123, 106661.	3.9	3
30	Damage Detection in RAPTOR Telescope Systems Using Time-Frequency Analysis Methods. Key Engineering Materials, 2013, 588, 43-53.	0.4	2
31	An SHM View of a CFD Model of Lillgrund Wind Farm. Applied Mechanics and Materials, 0, 564, 164-169.	0.2	2
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	Aspects of computational intelligence in structural dynamics: Structural health monitoring. , 2017, , .		0
36	A sampling-based approach for information-theoretic inspection management. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2022, 478, .	2.1	0