Diego Galar

List of Publications by Year
in descending order

91	1,312	567281	395702
papers	citations	15	33
		h-index	g-index

100	100	100	1263
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Big Data in Railway O&M. , 2022, , 391-416.		1
2	Stochastic versus Fuzzy Models—A Discussion Centered on the Reliability of an Electrical Power Supply System in a Large European Hospital. Energies, 2022, 15, 1024.	3.1	3
3	An Integrated Model for Dimensioning the Reserve Fleet based on the Maintenance Policy. WSEAS Transactions on Systems and Control, 2021, 16, 43-65.	0.8	4
4	FMECA Assessment for Railway Safety-Critical Systems Investigating a New Risk Threshold Method. IEEE Access, 2021, 9, 86243-86253.	4.2	11
5	Hybrid Models and Digital Twins for Condition Monitoring: HVAC System for Railway. SNE Simulation Notes Europe, 2021, 31, 121-126.	0.3	0
6	Development and synchronisation of a physics-based model for heating, ventilation and air conditioning system integrated into a hybrid model. International Journal of Hydromechatronics, 2021, 1, 1.	2.3	4
7	Improving Human Reliability Analysis for Railway Systems Using Fuzzy Logic. IEEE Access, 2021, 9, 128648-128662.	4.2	7
8	Hybrid Model Development for HVAC System in Transportation. Technologies, 2021, 9, 18.	5.1	4
9	Fault Detection and RUL Estimation for Railway HVAC Systems Using a Hybrid Model-Based Approach. Sustainability, 2021, 13, 6828.	3.2	16
10	Condition-Based Maintenance of HVAC on a High-Speed Train for Fault Detection. Electronics (Switzerland), 2021, 10, 1418.	3.1	5
11	A novel approach of multisensory fusion to collaborative fault diagnosis in maintenance. Information Fusion, 2021, 74, 65-76.	19.1	156
12	Adaptive Dendritic Cell-Deep Learning Approach for Industrial Prognosis Under Changing Conditions. IEEE Transactions on Industrial Informatics, 2021, 17, 7760-7770.	11.3	8
13	Development and synchronisation of a physics-based model for heating, ventilation and air conditioning system integrated into a hybrid model. International Journal of Hydromechatronics, 2021, 4, 230.	2.3	2
14	Estimate the useful life for a heating, ventilation, and air conditioning system on a high-speed train using failure models. Acta IMEKO (2012), 2021, 10, 100.	0.7	1
15	Transformative Maintenance Technologies and Business Solutions for the Railway Assets. , 2021, , 565-595.		1
16	Ergonomics Evaluation in Designed Maintainability: Case Study Using 3 DSSPP. Management Systems in Production Engineering, 2021, 29, 309-319.	1.1	2
17	Tool-Path Problem in Direct Energy Deposition Metal-Additive Manufacturing: Sequence Strategy Generation. IEEE Access, 2020, 8, 91574-91585.	4.2	5
18	Space weather climate impacts on railway infrastructure. International Journal of Systems Assurance Engineering and Management, 2020, 11, 267-281.	2.4	11

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19	Risk Assessment of a Wind Turbine: A New FMECA-Based Tool With RPN Threshold Estimation. IEEE Access, 2020, 8, 20181-20190.	4.2	25
20	Optimizing Maintenance Policies for a Yaw System Using Reliability-Centered Maintenance and Data-Driven Condition Monitoring. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 6241-6249.	4.7	37
21	Autonomous Inspection and Maintenance with Artificial Intelligence Infiltration. , 2020, , 341-364.		0
22	Autonomous Vehicles for Infrastructure Inspection Applications. , 2020, , 271-306.		0
23	Autonomous Inspection for Industrial Assets. , 2020, , 73-110.		0
24	Sensors for Autonomous Vehicles in Infrastructure Inspection Applications. , 2020, , 111-154.		0
25	Failure Detection Application in Autonomous Vehicles. , 2020, , 307-339.		0
26	Development of Autonomous Vehicles. , 2020, , 37-72.		1
27	Data Acquisition and Intelligent Diagnosis. , 2020, , 155-185.		0
28	Three-Dimensional Visualization. , 2020, , 187-225.		0
29	Big Data Analytics for AV Inspection and Maintenance. , 2020, , 365-391.		0
30	Adaptation of a Branching Algorithm to Solve the Multi-Objective Hamiltonian Cycle Problem. Operations Research Proceedings: Papers of the Annual Meeting = Vorträge Der Jahrestagung / DGOR, 2020, , 231-237.	0.1	0
31	Reliability evaluation of an HVAC ventilation system with FTA and RBD analysis. , 2020, , .		2
32	Improving context awareness reliability estimation for a wind turbine using an RBD model. , 2019, , .		11
33	Predicting condition based on oil analysis â€" A case study. Tribology International, 2019, 135, 65-74.	5.9	31
34	The New Asset Management: Implicationsof Servitization in Circular Economy. Journal of Industrial Engineering and Management Science, 2019, 2018, 109-120.	0.7	6
35	Reliability improvement of wind turbine control system based on standby redundancy. , 2019, , .		2
36	Data fusion and machine learning for industrial prognosis: Trends and perspectives towards Industry 4.0. Information Fusion, 2019, 50, 92-111.	19.1	373

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37	Optimization of Well Position and Sampling Frequency for Groundwater Monitoring and Inverse Identification of Contamination Source Conditions Using Bayes' Theorem. CMES - Computer Modeling in Engineering and Sciences, 2019, 119, 373-394.	1.1	2
38	RESERVE FLEET INDEXED TO EXOGENOUS COST VARIABLES. Transport, 2019, 34, 437-454.	1.2	3
39	Dimensioning reserve bus fleet using life cycle cost models and condition based/predictive maintenance: a case study. Public Transport, 2018, 10, 169-190.	2.7	11
40	Condition monitoring of wind turbine pitch controller: A maintenance approach. Measurement: Journal of the International Measurement Confederation, 2018, 123, 80-93.	5.0	27
41	Maintenance in the Era of Industry 4.0: Issues and Challenges. Springer Proceedings in Business and Economics, 2018, , 231-250.	0.3	20
42	A statistical data-based approach to instability detection and wear prediction in radial turning processes. Eksploatacja I Niezawodnosc, 2018, 20, 405-412.	2.0	6
43	Smart maintenance and inspection of linear assets: An Industry 4.0 approach. Acta IMEKO (2012), 2018, 7, 50.	0.7	22
44	Integrating mining loading and hauling equipment selection and replacement decisions using stochastic linear programming. International Journal of Mining, Reclamation and Environment, 2017, 31, 52-65.	2.8	4
45	Architecture for hybrid modelling and its application to diagnosis and prognosis with missing data. Measurement: Journal of the International Measurement Confederation, 2017, 108, 152-162.	5.0	38
46	Semantic Framework for Predictive Maintenance in a Cloud Environment. Procedia CIRP, 2017, 62, 583-588.	1.9	40
47	Sensors and Data Acquisition. , 2017, , 1-72.		3
48	Preprocessing and Features. , 2017, , 129-177.		4
49	Data and Information Fusion From Disparate Asset Management Sources. , 2017, , 179-234.		2
50	Maintenance Decision Support Systems. , 2017, , 371-474.		1
51	Actuators and Self-Maintenance Approaches. , 2017, , 475-527.		0
52	Optimization in performance-based logistics contracts. , 2017, , .		1
53	Context preparation for predictive analytics – a case from manufacturing industry. Journal of Quality in Maintenance Engineering, 2017, 23, 341-354.	1.7	8
54	Validation of a physics-based model of a rotating machine for synthetic data generation in hybrid diagnosis. Structural Health Monitoring, 2017, 16, 458-470.	7.5	10

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55	Methodology for the physics-based modelling of multiple rolling element bearing configurations. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2017, 231, 194-212.	0.8	2
56	Bottom to Top Approach for Railway KPI Generation. Management Systems in Production Engineering, 2017, 25, 191-198.	1.1	2
57	A multi-objective fuzzy mathematical approach for sustainable reverse supply chain configuration. Journal of Transport and Supply Chain Management, 2017, 11, .	0.6	6
58	Aggregation of Electric Current Consumption Features to Extract Maintenance KPIs. Management Systems in Production Engineering, 2017, 25, 183-190.	1.1	3
59	Ergonomics Contribution in Maintainability. Management Systems in Production Engineering, 2017, 25, 217-223.	1.1	5
60	An integrated econometric model for bus replacement and determination of reserve fleet size based on predictive maintenance. Eksploatacja I Niezawodnosc, 2017, 19, 358-368.	2.0	11
61	Electric Motors Maintenance Planning From Its Operating Variables. Management Systems in Production Engineering, 2017, 25, 205-216.	1.1	0
62	Using the life-cycle model with value thinking for managing an industrial maintenance network. International Journal of Industrial and Systems Engineering, 2016, 23, 19.	0.2	4
63	Fuzzy condition monitoring of recirculation fans and filters. International Journal of Systems Assurance Engineering and Management, 2016, 7, 469-479.	2.4	1
64	Maintenance Analytics â€" The New Know in Maintenance. IFAC-PapersOnLine, 2016, 49, 214-219.	0.9	56
65	Big Data in Asset Management: Knowledge Discovery in Asset Data by the Means of Data Mining. Lecture Notes in Mechanical Engineering, 2016, , 161-171.	0.4	8
66	Multi-criteria intuitionistic fuzzy group decision analysis with TOPSIS method for selecting appropriate cloud solution to manage big data projects. International Journal of Systems Assurance Engineering and Management, 2016, 7, 316-324.	2.4	11
67	Maintenance, prognostics and diagnostics approaches for aircraft engines. , 2016, , .		12
68	Effects of condition-based maintenance on costs caused by unscheduled maintenance of aircraft. Journal of Quality in Maintenance Engineering, 2016, 22, 394-417.	1.7	29
69	A proposed maintenance strategy for a wind turbine gearbox using condition monitoring techniques. International Journal of Process Management and Benchmarking, 2016, 6, 386.	0.2	8
70	Context-driven decisions for railway maintenance. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2016, 230, 1469-1483.	2.0	8
71	RUL estimation and maintenance optimization for aircraft engines: a system of system approach. International Journal of Systems Assurance Engineering and Management, 2016, 7, 450-461.	2.4	7
72	Intelligent Real-Time Risk Analysis for Machines and Process Devices. Lecture Notes in Mechanical Engineering, 2016, , 229-240.	0.4	1

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73	Context Awareness in Predictive Maintenance. Lecture Notes in Mechanical Engineering, 2016, , 197-211.	0.4	6
74	On-Condition Parts Versus Life Limited Parts: A Trade off in Aircraft Engines. Lecture Notes in Mechanical Engineering, 2016, , 253-262.	0.4	1
75	In Need for Better Maintenance Cost Modelling to Support the Partnership with Manufacturing. Lecture Notes in Mechanical Engineering, 2016, , 263-282.	0.4	2
76	Context-Based Maintenance and Repair Shop Suggestion for a Moving Vehicle. Lecture Notes in Mechanical Engineering, 2016, , 67-81.	0.4	3
77	Maintenance 4.0 in Railway Transportation Industry. Lecture Notes in Mechanical Engineering, 2016, , 317-331.	0.4	36
78	Multi-body modelling of rolling element bearings and performance evaluation with localised damage. Eksploatacja I Niezawodnosc, 2016, 18, 638-648.	2.0	10
79	Decision trees and the eï¬€ects of feature extraction parameters for robust sensor network design. Eksploatacja I Niezawodnosc, 2016, 19, 31-42.	2.0	8
80	Safety Analysis of Mining Machines Specific Maintenance Operations. Lecture Notes in Mechanical Engineering, 2016, , 485-496.	0.4	0
81	Estimation of the Reliability of Rolling Element Bearings Using a Synthetic Failure Rate. Lecture Notes in Mechanical Engineering, 2016, , 99-112.	0.4	2
82	An EMC study on the interopability of the European railway network. , 2015, , .		0
83	Smart Maintenance Solutions for Automated Mining Machinery. , 2015, , .		0
84	Development of a Markov model for production performance optimisation. Application for semi-automatic and manual LHD machines in underground mines. International Journal of Mining, Reclamation and Environment, 2014, 28, 342-355.	2.8	24
85	Self-maintenance techniques: a smart approach towards self-maintenance system. International Journal of Systems Assurance Engineering and Management, 2014, 5, 75-83.	2.4	19
86	Implementation of performance based maintenance contracting in railway industries. International Journal of Systems Assurance Engineering and Management, 2013, 4, 231-240.	2.4	16
87	SPARE PARTS ESTIMATION FOR MACHINE AVAILABILITY IMPROVEMENT ADDRESSING ITS RELIABILITY AND OPERATING ENVIRONMENT â€" CASE STUDY. International Journal of Reliability, Quality and Safety Engineering, 2013, 20, 1340005.	0.6	4
88	Human factor in maintenance performance measurement. , 2011, , .		9
89	Reliability prediction using support vector regression. International Journal of Systems Assurance Engineering and Management, 2010, 1, 263-268.	2.4	5
90	Application of dynamic benchmarking of rotating machinery for e-maintenance. International Journal of Systems Assurance Engineering and Management, 2010, 1, 246-262.	2.4	9

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91	Maintenance Costs and Life Cycle Cost Analysis. , 0, , .		32