

# Diego Galar

## List of Publications by Year in descending order

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Version: 2024-02-01

91  
papers

1,312  
citations

567281

15  
h-index

395702

33  
g-index

100  
all docs

100  
docs citations

100  
times ranked

1263  
citing authors

#	ARTICLE	IF	CITATIONS
1	Data fusion and machine learning for industrial prognosis: Trends and perspectives towards Industry 4.0. <i>Information Fusion</i> , 2019, 50, 92-111.	19.1	373
2	A novel approach of multisensory fusion to collaborative fault diagnosis in maintenance. <i>Information Fusion</i> , 2021, 74, 65-76.	19.1	156
3	Maintenance Analytics “The New Know in Maintenance. <i>IFAC-PapersOnLine</i> , 2016, 49, 214-219.	0.9	56
4	Semantic Framework for Predictive Maintenance in a Cloud Environment. <i>Procedia CIRP</i> , 2017, 62, 583-588.	1.9	40
5	Architecture for hybrid modelling and its application to diagnosis and prognosis with missing data. Measurement: <i>Journal of the International Measurement Confederation</i> , 2017, 108, 152-162.	5.0	38
6	Optimizing Maintenance Policies for a Yaw System Using Reliability-Centered Maintenance and Data-Driven Condition Monitoring. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 6241-6249.	4.7	37
7	Maintenance 4.0 in Railway Transportation Industry. <i>Lecture Notes in Mechanical Engineering</i> , 2016, , 317-331.	0.4	36
8	Maintenance Costs and Life Cycle Cost Analysis. , 0, , .		32
9	Predicting condition based on oil analysis “A case study. <i>Tribology International</i> , 2019, 135, 65-74.	5.9	31
10	Effects of condition-based maintenance on costs caused by unscheduled maintenance of aircraft. <i>Journal of Quality in Maintenance Engineering</i> , 2016, 22, 394-417.	1.7	29
11	Condition monitoring of wind turbine pitch controller: A maintenance approach. Measurement: <i>Journal of the International Measurement Confederation</i> , 2018, 123, 80-93.	5.0	27
12	Risk Assessment of a Wind Turbine: A New FMECA-Based Tool With RPN Threshold Estimation. <i>IEEE Access</i> , 2020, 8, 20181-20190.	4.2	25
13	Development of a Markov model for production performance optimisation. Application for semi-automatic and manual LHD machines in underground mines. <i>International Journal of Mining, Reclamation and Environment</i> , 2014, 28, 342-355.	2.8	24
14	Smart maintenance and inspection of linear assets: An Industry 4.0 approach. <i>Acta IMEKO (2012)</i> , 2018, 7, 50.	0.7	22
15	Maintenance in the Era of Industry 4.0: Issues and Challenges. <i>Springer Proceedings in Business and Economics</i> , 2018, , 231-250.	0.3	20
16	Self-maintenance techniques: a smart approach towards self-maintenance system. <i>International Journal of Systems Assurance Engineering and Management</i> , 2014, 5, 75-83.	2.4	19
17	Implementation of performance based maintenance contracting in railway industries. <i>International Journal of Systems Assurance Engineering and Management</i> , 2013, 4, 231-240.	2.4	16
18	Fault Detection and RUL Estimation for Railway HVAC Systems Using a Hybrid Model-Based Approach. <i>Sustainability</i> , 2021, 13, 6828.	3.2	16

#	ARTICLE	IF	CITATIONS
19	Maintenance, prognostics and diagnostics approaches for aircraft engines. , 2016, , .		12
20	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
21	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
22	Improving context awareness reliability estimation for a wind turbine using an RBD model. , 2019, , .		11
23	Space weather climate impacts on railway infrastructure. International Journal of Systems Assurance Engineering and Management, 2020, 11, 267-281.	2.4	11
24	FMECA Assessment for Railway Safety-Critical Systems Investigating a New Risk Threshold Method. IEEE Access, 2021, 9, 86243-86253.	4.2	11
25	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
26	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
27	Multi-body modelling of rolling element bearings and performance evaluation with localised damage. Eksploatacja I Niezawodnosc, 2016, 18, 638-648.	2.0	10
28	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
29	Human factor in maintenance performance measurement. , 2011, , .		9
30	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
31	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
32	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
33	Context preparation for predictive analytics “ a case from manufacturing industry. Journal of Quality in Maintenance Engineering, 2017, 23, 341-354.	1.7	8
34	Adaptive Dendritic Cell-Deep Learning Approach for Industrial Prognosis Under Changing Conditions. IEEE Transactions on Industrial Informatics, 2021, 17, 7760-7770.	11.3	8
35	Decision trees and the effects of feature extraction parameters for robust sensor network design. Eksploatacja I Niezawodnosc, 2016, 19, 31-42.	2.0	8
36	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

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37	Improving Human Reliability Analysis for Railway Systems Using Fuzzy Logic. IEEE Access, 2021, 9, 128648-128662.	4.2	7
38	Context Awareness in Predictive Maintenance. Lecture Notes in Mechanical Engineering, 2016, , 197-211.	0.4	6
39	A multi-objective fuzzy mathematical approach for sustainable reverse supply chain configuration. Journal of Transport and Supply Chain Management, 2017, 11, .	0.6	6
40	The New Asset Management: Implications of Servitization in Circular Economy. Journal of Industrial Engineering and Management Science, 2019, 2018, 109-120.	0.7	6
41	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
42	Reliability prediction using support vector regression. International Journal of Systems Assurance Engineering and Management, 2010, 1, 263-268.	2.4	5
43	Tool-Path Problem in Direct Energy Deposition Metal-Additive Manufacturing: Sequence Strategy Generation. IEEE Access, 2020, 8, 91574-91585.	4.2	5
44	Condition-Based Maintenance of HVAC on a High-Speed Train for Fault Detection. Electronics (Switzerland), 2021, 10, 1418.	3.1	5
45	Ergonomics Contribution in Maintainability. Management Systems in Production Engineering, 2017, 25, 217-223.	1.1	5
46	SPARE PARTS ESTIMATION FOR MACHINE AVAILABILITY IMPROVEMENT ADDRESSING ITS RELIABILITY AND OPERATING ENVIRONMENT " CASE STUDY. International Journal of Reliability, Quality and Safety Engineering, 2013, 20, 1340005.	0.6	4
47	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
48	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
49	Preprocessing and Features. , 2017, , 129-177.		4
50	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
51	Development and synchronisation of a physics-based model for heating, ventilation and air conditioning system integrated into a hybrid model. International Journal of Hydromechanics, 2021, 1, 1.	2.3	4
52	Hybrid Model Development for HVAC System in Transportation. Technologies, 2021, 9, 18.	5.1	4
53	Sensors and Data Acquisition. , 2017, , 1-72.		3
54	Context-Based Maintenance and Repair Shop Suggestion for a Moving Vehicle. Lecture Notes in Mechanical Engineering, 2016, , 67-81.	0.4	3

#	ARTICLE	IF	CITATIONS
55	Aggregation of Electric Current Consumption Features to Extract Maintenance KPIs. Management Systems in Production Engineering, 2017, 25, 183-190.	1.1	3
56	RESERVE FLEET INDEXED TO EXOGENOUS COST VARIABLES. Transport, 2019, 34, 437-454.	1.2	3
57	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
58	Data and Information Fusion From Disparate Asset Management Sources. , 2017, , 179-234.		2
59	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
60	Bottom to Top Approach for Railway KPI Generation. Management Systems in Production Engineering, 2017, 25, 191-198.	1.1	2
61	Reliability improvement of wind turbine control system based on standby redundancy. , 2019, , .		2
62	In Need for Better Maintenance Cost Modelling to Support the Partnership with Manufacturing. Lecture Notes in Mechanical Engineering, 2016, , 263-282.	0.4	2
63	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
64	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
65	Estimation of the Reliability of Rolling Element Bearings Using a Synthetic Failure Rate. Lecture Notes in Mechanical Engineering, 2016, , 99-112.	0.4	2
66	Reliability evaluation of an HVAC ventilation system with FTA and RBD analysis. , 2020, , .		2
67	Ergonomics Evaluation in Designed Maintainability: Case Study Using 3 DSSPP. Management Systems in Production Engineering, 2021, 29, 309-319.	1.1	2
68	Fuzzy condition monitoring of recirculation fans and filters. International Journal of Systems Assurance Engineering and Management, 2016, 7, 469-479.	2.4	1
69	Intelligent Real-Time Risk Analysis for Machines and Process Devices. Lecture Notes in Mechanical Engineering, 2016, , 229-240.	0.4	1
70	Maintenance Decision Support Systems. , 2017, , 371-474.		1
71	Optimization in performance-based logistics contracts. , 2017, , .		1
72	On-Condition Parts Versus Life Limited Parts: A Trade off in Aircraft Engines. Lecture Notes in Mechanical Engineering, 2016, , 253-262.	0.4	1

#	ARTICLE	IF	CITATIONS
73	Development of Autonomous Vehicles. , 2020, , 37-72.		1
74	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
75	Big Data in Railway O&M. , 2022, , 391-416.		1
76	Transformative Maintenance Technologies and Business Solutions for the Railway Assets. , 2021, , 565-595.		1
77	An EMC study on the interoperability of the European railway network. , 2015, , .		0
78	Actuators and Self-Maintenance Approaches. , 2017, , 475-527.		0
79	Hybrid Models and Digital Twins for Condition Monitoring: HVAC System for Railway. SNE Simulation Notes Europe, 2021, 31, 121-126.	0.3	0
80	Smart Maintenance Solutions for Automated Mining Machinery. , 2015, , .		0
81	Safety Analysis of Mining Machines Specific Maintenance Operations. Lecture Notes in Mechanical Engineering, 2016, , 485-496.	0.4	0
82	Electric Motors Maintenance Planning From Its Operating Variables. Management Systems in Production Engineering, 2017, 25, 205-216.	1.1	0
83	Autonomous Inspection and Maintenance with Artificial Intelligence Infiltration. , 2020, , 341-364.		0
84	Autonomous Vehicles for Infrastructure Inspection Applications. , 2020, , 271-306.		0
85	Autonomous Inspection for Industrial Assets. , 2020, , 73-110.		0
86	Sensors for Autonomous Vehicles in Infrastructure Inspection Applications. , 2020, , 111-154.		0
87	Failure Detection Application in Autonomous Vehicles. , 2020, , 307-339.		0
88	Data Acquisition and Intelligent Diagnosis. , 2020, , 155-185.		0
89	Three-Dimensional Visualization. , 2020, , 187-225.		0
90	Big Data Analytics for AV Inspection and Maintenance. , 2020, , 365-391.		0

#	ARTICLE	IF	CITATIONS
91	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