

John Andrews

List of Publications by Year in descending order

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72
papers

1,115
citations

516710

16
h-index

434195

31
g-index

72
all docs

72
docs citations

72
times ranked

864
citing authors

#	ARTICLE	IF	CITATIONS
1	A reliability study of railway switch and crossing components. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2023, 237, 205-217.	2.0	2
2	Modelling stochastic behaviour in simulation digital twins through neural nets. Journal of Simulation, 2022, 16, 512-525.	1.5	7
3	Railway Infrastructure Asset Management Modelling. Advances in Logistics, Operations, and Management Science Book Series, 2022, , 209-240.	0.4	0
4	Reduction of Petri net maintenance modeling complexity via Approximate Bayesian Computation. Reliability Engineering and System Safety, 2022, 222, 108365.	8.9	8
5	A Bayesian Belief Network method for bridge deterioration detection. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2021, 235, 338-355.	0.7	1
6	An alternative approach to railway asset management value analysis: application to a UK railway corridor. Infrastructure Asset Management, 2021, 8, 85-97.	1.6	3
7	Incorporating defect specific condition indicators in a bridge life cycle analysis. Engineering Structures, 2021, 246, 113003.	5.3	4
8	A mathematical programming model to select maintenance strategies in railway networks. Reliability Engineering and System Safety, 2021, 216, 107940.	8.9	8
9	Short-Turning Management During Railway Network Disruptions. Lecture Notes in Mobility, 2021, , 233-243.	0.2	0
10	Optimising rail-replacement bus services during infrastructure possessions. Infrastructure Asset Management, 2020, 7, 221-238.	1.6	3
11	Resilience in the Context of Nuclear Safety Engineering. , 2020, , .		0
12	Modelling interactions between multiple bridge deterioration mechanisms. Engineering Structures, 2020, 221, 111059.	5.3	6
13	A Petri net approach to assess the effects of railway maintenance on track availability. Infrastructure Asset Management, 2020, 7, 201-220.	1.6	4
14	Multi-defect modelling of bridge deterioration using truncated inspection records. Reliability Engineering and System Safety, 2020, 200, 106962.	8.9	19
15	Plausible Petri nets as self-adaptive expert systems: A tool for infrastructure asset monitoring. Computer-Aided Civil and Infrastructure Engineering, 2019, 34, 281-298.	9.8	10
16	A Petri Net-based life cycle cost analysis approach. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2019, 233, 90-102.	2.0	1
17	Modelling the effect of hydrogen on crack growth in zirconium. Nuclear Instruments & Methods in Physics Research B, 2019, 455, 13-20.	1.4	11
18	An efficient algorithm for computing exact system and survival signatures of K-terminal network reliability. Reliability Engineering and System Safety, 2019, 185, 429-439.	8.9	12

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19	A knowledge-based prognostics framework for railway track geometry degradation. Reliability Engineering and System Safety, 2019, 181, 127-141.	8.9	21
20	A new paradigm for uncertain knowledge representation by Plausible Petri nets. Information Sciences, 2018, 453, 323-345.	6.9	17
21	Railway bridge structural health monitoring and fault detection: State-of-the-art methods and future challenges. Structural Health Monitoring, 2018, 17, 971-1007.	7.5	93
22	Road maintenance planning using network flow modelling. IMA Journal of Management Mathematics, 2017, 28, 387-402.	1.6	5
23	System design and maintenance modelling for safety in extended life operation. Reliability Engineering and System Safety, 2017, 163, 95-108.	8.9	14
24	Maintenance processes modelling and optimisation. Reliability Engineering and System Safety, 2017, 168, 150-160.	8.9	22
25	A modelling approach for railway overhead line equipment asset management. Reliability Engineering and System Safety, 2017, 168, 326-337.	8.9	15
26	A new algorithm for prognostics using Subset Simulation. Reliability Engineering and System Safety, 2017, 168, 189-199.	8.9	15
27	Delayed maintenance modelling considering speed restriction for a railway section. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2017, 231, 411-428.	0.7	2
28	A Petri net model for railway bridge maintenance. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2017, 231, 306-323.	0.7	8
29	A fuzzy-based Bayesian belief network approach for railway bridge condition monitoring and fault detection. , 2017, , .		1
30	Modelling wind turbine degradation and maintenance. Wind Energy, 2016, 19, 571-591.	4.2	75
31	An information theoretic approach for knowledge representation using Petri nets. , 2016, , .		3
32	A Petri net approach for performance modelling of polymer electrolyte membrane fuel cell systems. International Journal of Hydrogen Energy, 2016, 41, 12242-12260.	7.1	20
33	Performance modelling of fuel cell systems through Petri nets. , 2016, , .		0
34	Fault detection and diagnostics of a three-phase separator. Journal of Loss Prevention in the Process Industries, 2016, 41, 215-230.	3.3	8
35	Petri net modelling of bridge asset management using maintenance-related state conditions. Structure and Infrastructure Engineering, 2016, 12, 730-751.	3.7	23
36	Application of network traffic flow model to road maintenance. Proceedings of the Institution of Civil Engineers: Transport, 2015, 168, 256-266.	0.6	2

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37	Modelling Railway Bridge Degradation Based on Historical Maintenance Data. Safety and Reliability, 2015, 35, 32-55.	0.6	7
38	Investigating railway track asset management using a Markov analysis. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2015, 229, 402-416.	2.0	22
39	A network traffic flow model for motorway and urban highways. Journal of the Operational Research Society, 2014, 65, 1278-1291.	3.4	5
40	A stochastic model for railway track asset management. Reliability Engineering and System Safety, 2014, 130, 76-84.	8.9	74
41	Analysis of the Contributions to the Performance of a Functional Product Design Using Simulation. Safety and Reliability, 2014, 34, 41-61.	0.6	0
42	Optimal Scheduling of Track Maintenance on a Railway Network. Quality and Reliability Engineering International, 2013, 29, 285-297.	2.3	52
43	Modelling maintenance in railway infrastructure management. , 2013, , .		23
44	A modelling approach to railway track asset management. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2013, 227, 56-73.	2.0	82
45	Service Support System Modelling Language for Simulation-driven Development of Functional Products. Procedia CIRP, 2013, 11, 420-424.	1.9	7
46	Modelling railway bridge asset management. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2013, 227, 644-656.	2.0	15
47	A track ballast maintenance and inspection model for a rail network. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2013, 227, 251-266.	0.7	18
48	Simulation driven design of functional products: a tool for evaluation of hardware reliability and maintenance. International Journal of Product Development, 2013, 18, 48.	0.2	5
49	Modelling and simulation of functional product system availability and support costs. International Journal of Product Development, 2012, 16, 304.	0.2	9
50	Tracking control of small-scale helicopters using explicit nonlinear MPC augmented with disturbance observers. Control Engineering Practice, 2012, 20, 258-268.	5.5	183
51	Rapid prototyping flight test environment for autonomous unmanned aerial vehicles. International Journal of Modelling, Identification and Control, 2011, 12, 200.	0.2	4
52	Trajectory tracking of small helicopters using explicit nonlinear MPC and DOBC. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 1498-1503.	0.4	8
53	Piecewise constant model predictive control for autonomous helicopters. Robotics and Autonomous Systems, 2011, 59, 571-579.	5.1	31
54	Functional product system availability: simulation-driven design and operation through coupled multi-objective optimisation. International Journal of Product Development, 2011, 13, 119.	0.2	30

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55	Modelling Service Support System Reliability. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 56-61.	0.4	6
56	Modelling the Use of Maintenance to Minimise Aircraft Service Disruption. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 44-49.	0.4	5
57	Experimental tests of autonomous ground vehicles with preview. International Journal of Automation and Computing, 2010, 7, 342-348.	4.5	5
58	Optimisation based control framework for autonomous vehicles: Algorithm and experiment. , 2010, , .		9
59	Introducing dynamics in a fault diagnostic application using Bayesian Belief Networks. , 2009, , .		0
60	Monte carlo simulation modelling of aircraft dispatch with known faults. , 2009, , .		1
61	ESReDA/ESRA maintenance modelling and applications project group. , 2009, , .		0
62	A reliability-based approach to mission planning in multi-platform phased missions. , 2009, , .		1
63	Failure Analysis of Polymer Electrolyte Fuel Cells. , 2008, , .		6
64	Causeâ€“consequence analysis of non-repairable phased missions. Reliability Engineering and System Safety, 2006, 91, 398-406.	8.9	20
65	Calculating the Failure Intensity of a Non-coherent Fault Tree Using the BDD Technique. Quality and Reliability Engineering International, 2004, 20, 225-235.	2.3	3
66	15th ARTS Advances in Reliability Technology Symposium. Quality and Reliability Engineering International, 2004, 20, iii-iii.	2.3	0
67	Editorial: 14th advances in reliability technology symposium (ARTS). Quality and Reliability Engineering International, 2001, 17, iii-iii.	2.3	0
68	Application of the digraph method of fault tree construction to a complex control configuration. Reliability Engineering and System Safety, 1990, 28, 357-384.	8.9	37
69	The impact of summer heatwaves on railway track geometry maintenance. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 0, , 095440972098429.	2.0	2
70	An Alternative Approach to Railway RAMS: Development of an Extended RAMS Framework. Infrastructure Asset Management, 0, , 1-10.	1.6	0
71	Railway track availability modelling with opportunistic maintenance practice. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 0, , 095440972110476.	2.0	0
72	A Petri net asset management framework for railway switches and crossings. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 0, , 095440972211109.	2.0	2