

Wim J C Verhagen

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

848
citations

623188

14
h-index

500791

28
g-index

53
all docs

53
docs citations

53
times ranked

628
citing authors

#	ARTICLE	IF	CITATIONS
1	A critical review of Knowledge-Based Engineering: An identification of research challenges. <i>Advanced Engineering Informatics</i> , 2012, 26, 5-15.	4.0	291
2	A systematic methodology for Prognostic and Health Management system architecture definition. <i>Reliability Engineering and System Safety</i> , 2020, 193, 106598.	5.1	60
3	A multidisciplinary implementation methodology for knowledge based engineering: KNOMAD. <i>Expert Systems With Applications</i> , 2010, 37, 7336-7350.	4.4	52
4	Transdisciplinary systems engineering: implications, challenges and research agenda. <i>International Journal of Agile Systems and Management</i> , 2019, 12, 58.	0.6	45
5	Toward a methodology of requirements definition for prognostics and health management system to support aircraft predictive maintenance. <i>Aerospace Science and Technology</i> , 2020, 102, 105877.	2.5	33
6	A novel decision support system for optimizing aircraft maintenance check schedule and task allocation. <i>Decision Support Systems</i> , 2021, 146, 113545.	3.5	29
7	A framework for management of Knowledge-Based Engineering applications as software services: Enabling personalization and codification. <i>Advanced Engineering Informatics</i> , 2012, 26, 219-230.	4.0	28
8	Predictive maintenance for aircraft components using proportional hazard models. <i>Journal of Industrial Information Integration</i> , 2018, 12, 23-30.	4.3	28
9	Multi-criteria weighted decision making for operational maintenance processes. <i>Journal of Air Transport Management</i> , 2018, 68, 152-164.	2.4	23
10	A method for identification of automation potential through modelling of engineering processes and quantification of information waste. <i>Advanced Engineering Informatics</i> , 2015, 29, 307-321.	4.0	22
11	Maximizing Operational Readiness in Military Aviation by Optimizing Flight and Maintenance Planning. <i>Transportation Research Procedia</i> , 2015, 10, 941-950.	0.8	22
12	Dynamic aircraft recovery problem - An operational decision support framework. <i>Computers and Operations Research</i> , 2020, 117, 104892.	2.4	20
13	Estimation of aircraft component production cost using knowledge based engineering techniques. <i>Advanced Engineering Informatics</i> , 2015, 29, 616-632.	4.0	17
14	Application of Extended Cox Regression Model to Time-On-Wing Data of Aircraft Repairables. <i>Reliability Engineering and System Safety</i> , 2020, 204, 107136.	5.1	14
15	Stakeholder-oriented systematic design methodology for prognostic and health management system: Stakeholder expectation definition. <i>Advanced Engineering Informatics</i> , 2020, 43, 101041.	4.0	14
16	Integrating maintenance work progress monitoring into aircraft maintenance planning decision support. <i>Transportation Research Procedia</i> , 2018, 29, 58-69.	0.8	13
17	Disposal and Recycle Economic Assessment for Aircraft and Engine End of Life Solution Evaluation. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 522.	1.3	12
18	Knowledge-based cost modelling of composite wing structures. <i>International Journal of Computer Integrated Manufacturing</i> , 2012, 25, 368-383.	2.9	11

#	ARTICLE	IF	CITATIONS
19	A decision support framework and prototype for aircraft dispatch assessment. Decision Support Systems, 2020, 135, 113338.	3.5	9
20	Correlation of mission type to cyclic loading as a basis for agile military aircraft asset management. Aerospace Science and Technology, 2016, 55, 111-119.	2.5	8
21	Ontological Modelling of the Aerospace Composite Manufacturing Domain. Advanced Concurrent Engineering, 2011, , 215-222.	0.2	6
22	A comparative study of Data-driven Prognostic Approaches: Stochastic and Statistical Models. , 2018, , .		6
23	An evaluation of forecasting methods for aircraft non-routine maintenance material demand. International Journal of Agile Systems and Management, 2014, 7, 383.	0.6	5
24	Challenges of CE. , 2015, , 807-833.		5
25	The KNOMAD Methodology for Integration of Multidisciplinary Engineering Knowledge Within Aerospace Production. , 2010, , .		4
26	Prediction of damage due to impact for composites on the basis of possible impact threats. International Journal of Impact Engineering, 2019, 132, 103317.	2.4	4
27	Retirement optimization through aircraft transfers and employment. Journal of Air Transport Management, 2019, 79, 101680.	2.4	4
28	KBE and Manufacturing Constraints Management. Advanced Concurrent Engineering, 2009, , 783-791.	0.2	4
29	Aircraft Component Multidisciplinary Design Optimization Considering Cost Performance. , 2014, , .		3
30	Optimising maintenance intervals for multiple maintenance policies: a cross-industrial study. International Journal of Agile Systems and Management, 2015, 8, 219.	0.6	3
31	Contextualising aircraft maintenance documentation. International Journal of Agile Systems and Management, 2017, 10, 160.	0.6	3
32	Identifying strategic maintenance capacity for accidental damage occurrence in aircraft operations. Journal of Management Analytics, 2019, 6, 30-48.	1.6	3
33	Time to retire: indicators for aircraft fleets. International Journal of Aviation Management, 2016, 3, 221.	0.1	2
34	Deducing the physical characteristics of an impactor from the resultant damage on aircraft structures. International Journal of Solids and Structures, 2020, 200-201, 94-105.	1.3	2
35	A Web-Based Decision Support System for Aircraft Dispatch and Maintenance. Aerospace, 2021, 8, 154.	1.1	2
36	Future Perspectives in Systems Engineering. , 2019, , 403-420.		2

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37	Application of a Greedy Algorithm to Military Aircraft Fleet Retirements. Journal of Aerospace Technology and Management, 2017, 9, 357-367.	0.3	2
38	Identification of optimal preventive maintenance decisions for composite components. Transportation Research Procedia, 2018, 29, 202-212.	0.8	1
39	Comparison of Data-driven Prognostics Models: A Process Perspective. , 2019, , .		1
40	Special issue on "new transdisciplinary practices for intelligent manufacturing for industry 4.0". International Journal of Computer Integrated Manufacturing, 2022, 35, 1-3.	2.9	1
41	Drivers of Customer Satisfaction in a Project-Oriented, Business-to-Business Market Environment: An Empirical Study. Advanced Concurrent Engineering, 2009, , 833-844.	0.2	0
42	Systematic Design Methodology for Integrated Prognostic and Health Management Systems. , 2018, , .		0
43	A Mobile Decision Support System for Aircraft Dispatch. , 2019, , .		0
44	Introduction to the Book. , 2015, , 1-17.		0
45	Introduction to the Book. , 2019, , 3-15.		0
46	Use of Textual Elements to Improve Reliability Prediction for Aircraft Component Behavior. Advances in Transdisciplinary Engineering, 2020, , .	0.1	0
47	Analysis of Bilateral Air Services Agreement Liberalization in Australia. Aerospace, 2022, 9, 371.	1.1	0