Duncan McFarlane

List of Publications by Year
in descending order

67 papers	2,594 citations	331670 21 h-index	197818 49 g-index
70 all docs	70 docs citations	70 times ranked	1787 citing authors

#	Article	IF	Citations
1	Contributions of Healthcare 4.0 digital applications to the resilience of healthcare organizations during the COVID-19 outbreak. Technovation, 2022, 111, 102379.	7.8	30
2	Evaluating the benefits of picking and packing planning integration in e-commerce warehouses. European Journal of Operational Research, 2022, 301, 67-81.	5.7	14
3	Examining the value of flexible logistics offerings. European Journal of Operational Research, 2021, 290, 968-981.	5.7	12
4	Intelligent ProductsÂthrough SOHOMA Prism. Studies in Computational Intelligence, 2021, , 367-384.	0.9	2
5	Digital interoperability in logistics and supply chain management: state-of-the-art and research avenues towards Physical Internet. Computers in Industry, 2021, 128, 103435.	9.9	61
6	Digital interoperability and transformation in logistics and supply chain management: Editorial. Computers in Industry, 2021, 129, 103462.	9.9	13
7	Supply chain data analytics for predicting supplier disruptions: a case study in complex asset manufacturing. International Journal of Production Research, 2020, 58, 3330-3341.	7.5	88
8	Extracting supply chain maps from news articles using deep neural networks. International Journal of Production Research, 2020, 58, 5320-5336.	7.5	60
9	Digital Manufacturing on a Shoestring: Low Cost Digital Solutions for SMEs. Studies in Computational Intelligence, 2020, , 40-51.	0.9	21
10	Potential Problem Data Tagging: Augmenting information systems with the capability to deal with inaccuracies. Decision Support Systems, 2019, 121, 72-83.	5.9	4
11	Towards the deployment of customer orientation: A case study in third-party logistics. Computers in Industry, 2019, 104, 75-87.	9.9	21
12	A Maturity Framework for Operational Resilience and Its Application to Production Control. Studies in Computational Intelligence, 2018, , 51-62.	0.9	3
13	Customising with 3D printing: The role of intelligent control. Computers in Industry, 2018, 103, 38-46.	9.9	16
14	An interventionist strategy for warehouse order picking: Evidence from two case studies. International Journal of Production Economics, 2017, 189, 63-76.	8.9	50
15	Augmented Reality in Warehouse Operations: Opportunities and Barriers. IFAC-PapersOnLine, 2017, 50, 12979-12984.	0.9	89
16	Framework for Simulation-based Performance Assessment and Resilience Improvement. IFAC-PapersOnLine, 2016, 49, 289-294.	0.9	4
17	An enhanced cycle counting approach utilising historical inventory data. IFAC-PapersOnLine, 2016, 49, 1347-1352.	0.9	1
18	Towards the future-proofing of UK infrastructure. Infrastructure Asset Management, 2016, 3, 28-41.	1.6	23

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19	Balancing Push and Pull Strategies within the Production System. IFAC-PapersOnLine, 2016, 49, 66-71.	0.9	17
20	Intelligent logistics: Involving the customer. Computers in Industry, 2016, 81, 105-115.	9.9	71
21	An algorithm for dynamic order-picking in warehouse operations. European Journal of Operational Research, 2016, 248, 107-122.	5.7	106
22	Overcoming limited dataset availability when working with industrial organisations. , 2015, , .		1
23	Adaptive Storage Location Assignment for Warehouses Using Intelligent Products. Studies in Computational Intelligence, 2015, , 271-279.	0.9	10
24	New directions for warehousing data management research: Extensions to an existing review. , 2015, , .		0
25	Towards Lean and Resilient Production. IFAC-PapersOnLine, 2015, 48, 2387-2392.	0.9	7
26	Smart tracking to enable disturbance tolerant manufacturing through enhanced product intelligence. , 2015, , .		1
27	The Role of Distributed Intelligence in Warehouse Management Systems. Studies in Computational Intelligence, 2014, , 63-77.	0.9	7
28	Designing Automated Allocation Mechanisms for Service Procurement of Imperfectly Substitutable Services. IEEE Transactions on Games, 2013, 5, 15-32.	1.4	7
29	Product intelligence in industrial control: Theory and practice. Annual Reviews in Control, 2013, 37, 69-88.	7.9	98
30	Intelligent Products in the Supply Chain - 10 Years on. Studies in Computational Intelligence, 2013, , 103-117.	0.9	8
31	Product Intelligence in Warehouse Management: A Case Study. Lecture Notes in Computer Science, 2013, , 224-235.	1.3	10
32	A Framework for Distributed Intelligent Automation Systems Developments. Studies in Computational Intelligence, 2013, , 313-326.	0.9	1
33	Rationales of Holonic Manufacturing Systems in Leather Industry. Lecture Notes in Computer Science, 2013, , 199-211.	1.3	0
34	Travel behaviour applied in freight transportation using intelligent products. , 2012, , .		2
35	A Framework for Distributed Intelligent Automation Systems Developments. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 758-763.	0.4	7
36	Intelligent Products in the Supply Chain - 10 Years On. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 655-660.	0.4	16

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37	Product Intelligence: Theory and Practice. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 9-14.	0.4	6
38	Adding sense to the Internet of Things. Personal and Ubiquitous Computing, 2012, 16, 291-308.	2.8	199
39	Modelling information requirements in complex engineering services. Computers in Industry, 2012, 63, 349-360.	9.9	23
40	Will Intelligent Assets Take Off? Toward Self-Serving Aircraft. IEEE Intelligent Systems, 2011, 26, 66-75.	4.0	31
41	Bayesian Supply Chain Tracking Using Serial-Level Information. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2011, 41, 733-742.	2.9	15
42	Taxonomy, technology and applications of smart objects. Information Systems Frontiers, 2011, 13, 281-300.	6.4	111
43	Enabling through life product-instance management: Solutions and challenges. Journal of Network and Computer Applications, 2011, 34, 1015-1031.	9.1	34
44	Quantifying the impact of AIDC technologies for vehicle component recovery. Computers and Industrial Engineering, 2010, 59, 296-307.	6.3	17
45	Determining the value of asset location information systems in a manufacturing environment. International Journal of Production Economics, 2010, 126, 324-334.	8.9	26
46	RFID opportunity analysis for leaner manufacturing. International Journal of Production Research, 2010, 48, 2745-2764.	7.5	77
47	Value of information in product recovery decisions: a Bayesian approach. International Journal of Sustainable Engineering, 2010, 3, 106-120.	3.5	13
48	A Bayesian decision support system for vehicle component recovery. International Journal of Sustainable Manufacturing, 2009, 1, 415.	0.3	2
49	Guest Editorial Special Section on RFID. IEEE Transactions on Automation Science and Engineering, 2009, 6, 1-3.	5.2	5
50	Assessing ease of reconfiguration of conventional and Holonic manufacturing systems: Approach and case study. Engineering Applications of Artificial Intelligence, 2009, 22, 1015-1024.	8.1	20
51	A distributed architecture for reconfigurable control of continuous process operations. Journal of Intelligent Manufacturing, 2008, 19, 215-232.	7.3	24
52	Asset information management: research challenges. , 2008, , .		15
53	Radio frequency identification data capture and its impact on shelf replenishment. International Journal of Logistics Research and Applications, 2007, 10, 71-93.	8.8	21
54	Value of RFID in remanufacturing. International Journal of Services Operations and Informatics, 2007, 2, 225.	0.3	16

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55	Integrating a New Machine into an Existing Manufacturing System by using Holonic Approach. , 2007, , .		5
56	RFID-based product information in end-of-life decision making. Control Engineering Practice, 2007, 15, 1348-1363.	5.5	142
57	A team-based holonic approach to robotic assembly cell control. Journal of Network and Computer Applications, 2005, 29, 160-176.	9.1	18
58	Supply Chain Management Using Auto-ID Systems. , 2004, , 367-392.		1
59	Investigating the Role of Product Information in End-of-Life Decision Making. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 413-418.	0.4	7
60	Networked RFID in Industrial Control: Current and Future. , 2004, , 3-12.		10
61	Achieving holonic controlâ€"an incremental approach. Computers in Industry, 2003, 51, 211-223.	9.9	12
62	Auto ID systems and intelligent manufacturing control. Engineering Applications of Artificial Intelligence, 2003, 16, 365-376.	8.1	378
63	The Impact of Automatic Identification on Supply Chain Operations. International Journal of Logistics Management, 2003, 14, 1-17.	6.6	271
64	Product identity and its impact on discrete event observability. , 2003, , .		6
65	Emergent flow shop control based on MASCADA agents. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 187-192.	0.4	5
66	Hierarchy in distributed shop floor control. Computers in Industry, 2000, 43, 123-137.	9.9	152
67	Robust stabilization of normalized coprime factors: an explicit H$_{∞}$ solution. , 1988, , .		35