

Luca Fumagalli

List of Publications by Year in descending order

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54
papers

2,646
citations

331259

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223531

46
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54
all docs

54
docs citations

54
times ranked

2074
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review of the Roles of Digital Twin in CPS-based Production Systems. <i>Procedia Manufacturing</i> , 2017, 11, 939-948.	1.9	917
2	Review of digital twin applications in manufacturing. <i>Computers in Industry</i> , 2019, 113, 103130.	5.7	422
3	Exploring the role of Digital Twin for Asset Lifecycle Management. <i>IFAC-PapersOnLine</i> , 2018, 51, 790-795.	0.5	140
4	A decision-making framework for dynamic scheduling of cyber-physical production systems based on digital twins. <i>Annual Reviews in Control</i> , 2021, 51, 357-373.	4.4	101
5	Integrating Virtual Reality and Digital Twin in Circular Economy Practices: A Laboratory Application Case. <i>Sustainability</i> , 2020, 12, 2286.	1.6	91
6	MES-integrated digital twin frameworks. <i>Journal of Manufacturing Systems</i> , 2020, 56, 58-71.	7.6	90
7	Requirements and languages for the semantic representation of manufacturing systems. <i>Computers in Industry</i> , 2016, 81, 55-66.	5.7	84
8	A model-based approach for data integration to improve maintenance management by mixed reality. <i>Computers in Industry</i> , 2013, 64, 376-391.	5.7	75
9	Maintenance management of railway infrastructures based on reliability analysis. <i>Reliability Engineering and System Safety</i> , 2012, 104, 71-83.	5.1	68
10	A review of multi-criteria classification of spare parts. <i>Journal of Manufacturing Technology Management</i> , 2014, 25, 528-549.	3.3	68
11	FMU-supported simulation for CPS Digital Twin. <i>Procedia Manufacturing</i> , 2019, 28, 201-206.	1.9	56
12	A maintenance maturity assessment method for the manufacturing industry. <i>Journal of Quality in Maintenance Engineering</i> , 2013, 19, 295-315.	1.0	54
13	Role of Ontologies for CPS Implementation in Manufacturing. <i>Management and Production Engineering Review</i> , 2015, 6, 26-32.	1.4	34
14	Modelling internal logistics systems through ontologies. <i>Computers in Industry</i> , 2017, 88, 19-34.	5.7	32
15	A virtual commissioning based methodology to integrate digital twins into manufacturing systems. <i>Production Engineering</i> , 2021, 15, 397-412.	1.1	31
16	Generic platform for manufacturing execution system functions in knowledge-driven manufacturing systems. <i>International Journal of Computer Integrated Manufacturing</i> , 2018, 31, 262-274.	2.9	28
17	Value-driven engineering of E-maintenance platforms. <i>Journal of Manufacturing Technology Management</i> , 2014, 25, 568-598.	3.3	27
18	Framework for simulation software selection. <i>Journal of Simulation</i> , 2019, 13, 286-303.	1.0	24

#	ARTICLE	IF	CITATIONS
19	Ontology-Based Modeling of Manufacturing and Logistics Systems for a New MES Architecture. Lecture Notes in Computer Science, 2014, , 192-200.	1.0	24
20	The Challenges of Cybersecurity Frameworks to Protect Data Required for the Development of Advanced Maintenance. Procedia CIRP, 2016, 47, 222-227.	1.0	23
21	Clarifying Data Analytics Concepts for Industrial Engineering. IFAC-PapersOnLine, 2018, 51, 820-825.	0.5	23
22	A Review of the Roles of Digital Twin in CPS-Based Production Systems. , 2020, , 291-307.		21
23	Introducing buffer inventories in the RBD analysis of process production systems. Reliability Engineering and System Safety, 2012, 104, 84-95.	5.1	20
24	Computerized Maintenance Management Systems in SMEs: a survey in Italy and some remarks for the implementation of Condition Based Maintenance. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1615-1619.	0.4	16
25	A Smart Maintenance tool for a safe Electric Arc Furnace. IFAC-PapersOnLine, 2016, 49, 19-24.	0.5	16
26	Data-driven CBM tool for risk-informed decision-making in an electric arc furnace. International Journal of Advanced Manufacturing Technology, 2019, 105, 595-608.	1.5	16
27	On the Advancement of Maintenance Management Towards Smart Maintenance in Manufacturing. IFIP Advances in Information and Communication Technology, 2017, , 383-390.	0.5	12
28	XRepo - Towards an information system for prognostics and health management analysis. Procedia Manufacturing, 2020, 42, 146-153.	1.9	12
29	Evaluating the Role of Maintenance Maturity in Adoption of New ICT in the Process Industry. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 251-256.	0.4	9
30	Maintenance business model: a concept for driving performance improvement. International Journal of Strategic Engineering Asset Management, 2015, 2, 159.	0.6	9
31	Ontology for Service-Based Control of Production Systems. IFIP Advances in Information and Communication Technology, 2015, , 484-492.	0.5	9
32	Value-in-use of e-maintenance in service provision: survey analysis and future research agenda. IFAC-PapersOnLine, 2016, 49, 138-143.	0.5	9
33	Open Interfaces for Connecting Automated Guided Vehicles to a Fleet Management System. Procedia Manufacturing, 2020, 42, 406-413.	1.9	9
34	On the classification of spare parts with a multi-criteria perspective. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 19-24.	0.4	7
35	Risk driven engineering of Prognostics and Health Management systems in manufacturing. IFAC-PapersOnLine, 2015, 48, 995-1000.	0.5	7
36	Architecture for Data Acquisition in Research and Teaching Laboratories. Procedia Computer Science, 2021, 180, 833-842.	1.2	7

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37	A Case Study for Problem-based Learning Education in Fault Diagnosis Assessment. IFAC-PapersOnLine, 2020, 53, 107-112.	0.5	7
38	Value assessment of an E-maintenance platform. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 145-150.	0.4	6
39	Distributed control via modularized CPS architecture Lessons learnt from an industrial case study. IFAC-PapersOnLine, 2018, 51, 803-808.	0.5	6
40	An adaption of OSA-CBM architecture for Human-Computer interaction through mixed interface. , 2011, , .		5
41	Integrating maintenance within the production process through a flexible E-maintenance platform. IFAC-PapersOnLine, 2015, 48, 1457-1462.	0.5	5
42	Agile diagnostic tool based on electrical signature analysis. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 14067-14072.	0.4	4
43	Implementation of a condition monitoring system on an electric arc furnace through a risk-based methodology. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2015, 229, 327-342.	0.6	4
44	Orchestration of preventive maintenance interventions. IFAC-PapersOnLine, 2017, 50, 13976-13981.	0.5	4
45	Human-Computer-Machine Interaction for the Supervision of Flexible Manufacturing Systems: A Case Study. IFAC-PapersOnLine, 2020, 53, 10550-10555.	0.5	4
46	Towards a Plug and Play Architecture for a Materialflow Handling System. , 2019, , .		3
47	Data-Driven State Detection for an asset working at heterogenous regimens. IFAC-PapersOnLine, 2021, 54, 1248-1253.	0.5	3
48	REFERENCE PROCESS FOR PROBLEM MANAGEMENT MATURITY ASSESSMENT IN THE TELECOMMUNICATION SECTOR. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 163-168.	0.4	1
49	Value Assessment of e-Maintenance Platforms. , 2018, , 371-385.		1
50	Implementation of a Condition Monitoring System on an Electric Arc Furnace Through a Risk-Based Methodology. , 2020, , 233-257.		1
51	Cross-Correlation Method for Orchestration of Preventive Maintenance Interventions. IFIP Advances in Information and Communication Technology, 2017, , 84-91.	0.5	1
52	Exploring the Integration of Maintenance with Production Management in SMEs. Lecture Notes in Computer Science, 2014, , 507-514.	1.0	0
53	Industrial Implementation of Models for Joint Production and Maintenance Planning. Lecture Notes in Computer Science, 2014, , 499-506.	1.0	0
54	Maturity Assessment for Systematic Performance Improvement in Manufacturing Networks. Springer Series in Advanced Manufacturing, 2017, , 303-317.	0.2	0