# Luca Fumagalli

List of Publications by Year
in descending order

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|---|---|---|---|
| 54<br>papers | 2,646<br>citations | 331259<br>21<br>h-index | 223531<br>46<br>g-index |
| 54<br>all docs | 54<br>docs citations | 54<br>times ranked | 2074<br>citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 1 | A decision-making framework for dynamic scheduling of cyber-physical production systems based on digital twins. Annual Reviews in Control, 2021, 51, 357-373. | 4.4 | 101 |
| 2 | Architecture for Data Acquisition in Research and Teaching Laboratories. Procedia Computer Science, 2021, 180, 833-842. | 1.2 | 7 |
| 3 | A virtual commissioning based methodology to integrate digital twins into manufacturing systems. Production Engineering, 2021, 15, 397-412. | 1.1 | 31 |
| 4 | Data-Driven State Detection for an asset working at heterogenous regimens. IFAC-PapersOnLine, 2021, 54, 1248-1253. | 0.5 | 3 |
| 5 | Implementation of a Condition Monitoring System on an Electric Arc Furnace Through a Risk-Based Methodology. , 2020, , 233-257. | | 1 |
| 6 | MES-integrated digital twin frameworks. Journal of Manufacturing Systems, 2020, 56, 58-71. | 7.6 | 90 |
| 7 | XRepo - Towards an information system for prognostics and health management analysis. Procedia Manufacturing, 2020, 42, 146-153. | 1.9 | 12 |
| 8 | Open Interfaces for Connecting Automated Guided Vehicles to a Fleet Management System. Procedia Manufacturing, 2020, 42, 406-413. | 1.9 | 9 |
| 9 | Integrating Virtual Reality and Digital Twin in Circular Economy Practices: A Laboratory Application Case. Sustainability, 2020, 12, 2286. | 1.6 | 91 |
| 10 | A Review of the Roles of Digital Twin in CPS-Based Production Systems. , 2020, , 291-307. | | 21 |
| 11 | A Case Study for Problem-based Learning Education in Fault Diagnosis Assessment. IFAC-PapersOnLine, 2020, 53, 107-112. | 0.5 | 7 |
| 12 | Human-Computer-Machine Interaction for the Supervision of Flexible Manufacturing Systems: A Case Study. IFAC-PapersOnLine, 2020, 53, 10550-10555. | 0.5 | 4 |
| 13 | 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 |
| 14 | Review of digital twin applications in manufacturing. Computers in Industry, 2019, 113, 103130. | 5.7 | 422 |
| 15 | FMU-supported simulation for CPS Digital Twin. Procedia Manufacturing, 2019, 28, 201-206. | 1.9 | 56 |
| 16 | Framework for simulation software selection. Journal of Simulation, 2019, 13, 286-303. | 1.0 | 24 |
| 17 | Towards a Plug and Play Architecture for a Materialflow Handling System. , 2019, , . | | 3 |
| 18 | Value Assessment of e-Maintenance Platforms. , 2018, , 371-385. | | 1 |

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|---|---------|-----|-----------|
| 19 | Generic platform for manufacturing execution system functions in knowledge-driven manufacturing systems. International Journal of Computer Integrated Manufacturing, 2018, 31, 262-274. | 2.9 | 28 |
| 20 | Exploring the role of Digital Twin for Asset Lifecycle Management. IFAC-PapersOnLine, 2018, 51, 790-795. | 0.5 | 140 |
| 21 | Distributed control via modularized CPS architecture Lessons learnt from an industrial case study. IFAC-PapersOnLine, 2018, 51, 803-808. | 0.5 | 6 |
| 22 | Clarifying Data Analytics Concepts for Industrial Engineering. IFAC-PapersOnLine, 2018, 51, 820-825. | 0.5 | 23 |
| 23 | Modelling internal logistics systems through ontologies. Computers in Industry, 2017, 88, 19-34. | 5.7 | 32 |
| 24 | Orchestration of preventive maintenance interventions. IFAC-PapersOnLine, 2017, 50, 13976-13981. | 0.5 | 4 |
| 25 | On the Advancement of Maintenance Management Towards Smart Maintenance in Manufacturing. IFIP Advances in Information and Communication Technology, 2017, , 383-390. | 0.5 | 12 |
| 26 | A Review of the Roles of Digital Twin in CPS-based Production Systems. Procedia Manufacturing, 2017, 11, 939-948. | 1.9 | 917 |
| 27 | Cross-Correlation Method for Orchestration of Preventive Maintenance Interventions. IFIP Advances in Information and Communication Technology, 2017, , 84-91. | 0.5 | 1 |
| 28 | Maturity Assessment for Systematic Performance Improvement in Manufacturing Networks. Springer Series in Advanced Manufacturing, 2017, , 303-317. | 0.2 | 0 |
| 29 | A Smart Maintenance tool for a safe Electric Arc Furnace. IFAC-PapersOnLine, 2016, 49, 19-24. | 0.5 | 16 |
| 30 | Value-in-use of e-maintenance in service provision: survey analysis and future research agenda. IFAC-PapersOnLine, 2016, 49, 138-143. | 0.5 | 9 |
| 31 | Requirements and languages for the semantic representation of manufacturing systems. Computers in Industry, 2016, 81, 55-66. | 5.7 | 84 |
| 32 | The Challenges of Cybersecurity Frameworks to Protect Data Required for the Development of Advanced Maintenance. Procedia CIRP, 2016, 47, 222-227. | 1.0 | 23 |
| 33 | Risk driven engineering of Prognostics and Health Management systems in manufacturing. IFAC-PapersOnLine, 2015, 48, 995-1000. | 0.5 | 7 |
| 34 | Maintenance business model: a concept for driving performance improvement. International Journal of Strategic Engineering Asset Management, 2015, 2, 159. | 0.6 | 9 |
| 35 | Role of Ontologies for CPS Implementation in Manufacturing. Management and Production Engineering Review, 2015, 6, 26-32. | 1.4 | 34 |
| 36 | Ontology for Service-Based Control of Production Systems. IFIP Advances in Information and Communication Technology, 2015, , 484-492. | 0.5 | 9 |

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|---|---------|-----|-----------|
| 37 | Integrating maintenance within the production process through a flexible E-maintenance platform. IFAC-PapersOnLine, 2015, 48, 1457-1462. | 0.5 | 5 |
| 38 | 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 |
| 39 | A review of multi-criteria classification of spare parts. Journal of Manufacturing Technology Management, 2014, 25, 528-549. | 3.3 | 68 |
| 40 | Value-driven engineering of E-maintenance platforms. Journal of Manufacturing Technology Management, 2014, 25, 568-598. | 3.3 | 27 |
| 41 | Ontology-Based Modeling of Manufacturing and Logistics Systems for a New MES Architecture. Lecture Notes in Computer Science, 2014, , 192-200. | 1.0 | 24 |
| 42 | Exploring the Integration of Maintenance with Production Management in SMEs. Lecture Notes in Computer Science, 2014, , 507-514. | 1.0 | 0 |
| 43 | Industrial Implementation of Models for Joint Production and Maintenance Planning. Lecture Notes in Computer Science, 2014, , 499-506. | 1.0 | 0 |
| 44 | A model-based approach for data integration to improve maintenance management by mixed reality. Computers in Industry, 2013, 64, 376-391. | 5.7 | 75 |
| 45 | A maintenance maturity assessment method for the manufacturing industry. Journal of Quality in Maintenance Engineering, 2013, 19, 295-315. | 1.0 | 54 |
| 46 | 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 |
| 47 | Value assessment of an E-maintenance platform. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 145-150. | 0.4 | 6 |
| 48 | 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 |
| 49 | Introducing buffer inventories in the RBD analysis of process production systems. Reliability Engineering and System Safety, 2012, 104, 84-95. | 5.1 | 20 |
| 50 | Maintenance management of railway infrastructures based on reliability analysis. Reliability Engineering and System Safety, 2012, 104, 71-83. | 5.1 | 68 |
| 51 | Agile diagnostic tool based on electrical signature analysis. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 14067-14072. | 0.4 | 4 |
| 52 | An adaption of OSA-CBM architecture for Human-Computer interaction through mixed interface. , 2011, , . | | 5 |
| 53 | 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 |
| 54 | 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 |