

# Maurizio Faccio

## List of Publications by Year in descending order

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Version: 2024-02-01

105  
papers

3,114  
citations

172207

29  
h-index

168136

53  
g-index

109  
all docs

109  
docs citations

109  
times ranked

2306  
citing authors

#	ARTICLE	IF	CITATIONS
1	Humanâ€“Robot Collaboration in Manufacturing Applications: A Review. <i>Robotics</i> , 2019, 8, 100.	2.1	303
2	New methodological framework to improve productivity and ergonomics in assembly system design. <i>International Journal of Industrial Ergonomics</i> , 2011, 41, 30-42.	1.5	209
3	Waste collection multi objective model with real time traceability data. <i>Waste Management</i> , 2011, 31, 2391-2405.	3.7	201
4	Assembly system design in the Industry 4.0 era: a general framework. <i>IFAC-PapersOnLine</i> , 2017, 50, 5700-5705.	0.5	183
5	Fresh food sustainable distribution: cost, delivery time and carbon footprint three-objective optimization. <i>Journal of Food Engineering</i> , 2016, 174, 56-67.	2.7	155
6	Design and management of digital manufacturing and assembly systems in the Industry 4.0 era. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 105, 3565-3577.	1.5	116
7	Design of the optimal feeding policy in an assembly system. <i>International Journal of Production Economics</i> , 2009, 121, 233-254.	5.1	100
8	Motion Analysis System (MAS) for production and ergonomics assessment in the manufacturing processes. <i>Computers and Industrial Engineering</i> , 2020, 139, 105485.	3.4	91
9	Collaborative and traditional robotic assembly: a comparison model. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 102, 1355-1372.	1.5	73
10	Industrial maintenance policy development: A quantitative framework. <i>International Journal of Production Economics</i> , 2014, 147, 85-93.	5.1	72
11	Assembly system configuration through Industry 4.0 principles: the expected change in the actual paradigms. <i>IFAC-PapersOnLine</i> , 2017, 50, 14958-14963.	0.5	65
12	Fully flexible assembly systems (Fâ€“FAS): a new concept in flexible automation. <i>Assembly Automation</i> , 2013, 33, 8-21.	1.0	62
13	Multi-objective assembly line balancing considering component picking and ergonomic risk. <i>Computers and Industrial Engineering</i> , 2017, 112, 348-367.	3.4	53
14	Inventory holding costs measurement: a multi-case study. <i>International Journal of Logistics Management</i> , 2014, 25, 109-132.	4.1	52
15	â€œSupermarket warehousesâ€“ stocking policies optimization in an assembly-to-order environment. <i>International Journal of Advanced Manufacturing Technology</i> , 2010, 50, 775-788.	1.5	51
16	The impact of production mix variations and models varieties on the parts-feeding policy selection in a JIT assembly system. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 72, 543-560.	1.5	50
17	Balancingâ€“sequencing procedure for a mixed model assembly system in case of finite buffer capacity. <i>International Journal of Advanced Manufacturing Technology</i> , 2009, 44, 345-359.	1.5	49
18	Sustainable SC through the complete reprocessing of end-of-life products by manufacturers: A traditional versus social responsibility company perspective. <i>European Journal of Operational Research</i> , 2014, 233, 359-373.	3.5	49

#	ARTICLE	IF	CITATIONS
19	Kanban number optimisation in a supermarket warehouse feeding a mixed-model assembly system. <i>International Journal of Production Research</i> , 2013, 51, 2997-3017.	4.9	46
20	Design, engineering and testing of an innovative adaptive automation assembly system. <i>Assembly Automation</i> , 2020, 40, 531-540.	1.0	45
21	Design and simulation of assembly line feeding systems in the automotive sector using supermarket, kanbans and tow trains: a general framework. <i>Journal of Management Control</i> , 2013, 24, 187-208.	0.8	43
22	State-of-art review of the optimization methods to design the configuration of hybrid renewable energy systems (HRESs). <i>Frontiers in Energy</i> , 2018, 12, 591-622.	1.2	43
23	New City Logistics Paradigm: From the "Last Mile" to the "Last 50 Miles" Sustainable Distribution. <i>Sustainability</i> , 2015, 7, 14873-14894.	1.6	39
24	Human Factor Analyser for work measurement of manual manufacturing and assembly processes. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 103, 861-877.	1.5	39
25	Deploying cobots in collaborative systems: major considerations and productivity analysis. <i>International Journal of Production Research</i> , 2022, 60, 1815-1831.	4.9	37
26	Modelling and optimization of fully flexible assembly systems (FFAS). <i>Assembly Automation</i> , 2013, 33, 165-174.	1.0	34
27	The influence of the product characteristics on human-robot collaboration: a model for the performance of collaborative robotic assembly. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 106, 2317-2331.	1.5	34
28	Sequencing procedure for balancing the workloads variations in case of mixed model assembly system with multiple secondary feeder lines. <i>International Journal of Production Research</i> , 2012, 50, 6081-6098.	4.9	33
29	Adaptive Automation Assembly Systems in the Industry 4.0 Era: A Reference Framework and Full-Scale Prototype. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1256.	1.3	33
30	Innovative travel time model for dual-shuttle automated storage/retrieval systems. <i>Computers and Industrial Engineering</i> , 2011, 61, 600-607.	3.4	31
31	Multi-stage supply network design in case of reverse flows: a closed-loop approach. <i>International Journal of Operational Research</i> , 2011, 12, 157.	0.1	30
32	Hierarchical approach for paced mixed-model assembly line balancing and sequencing with jolly operators. <i>International Journal of Production Research</i> , 2016, 54, 761-777.	4.9	30
33	Human factors in cobot era: a review of modern production systems features. <i>Journal of Intelligent Manufacturing</i> , 2023, 34, 85-106.	4.4	30
34	Time and energy optimal unit-load assignment for automatic S/R warehouses. <i>International Journal of Production Economics</i> , 2017, 190, 133-145.	5.1	29
35	Learning manual assembly through real-time motion capture for operator training with augmented reality. <i>Procedia Manufacturing</i> , 2020, 45, 189-195.	1.9	29
36	Lot splitting scheduling procedure for makespan reduction and machine capacity increase in a hybrid flow shop with batch production. <i>International Journal of Advanced Manufacturing Technology</i> , 2012, 59, 775-786.	1.5	27

#	ARTICLE	IF	CITATIONS
37	Multi-objective design of multi-modal fresh food distribution networks. International Journal of Logistics Systems and Management, 2016, 24, 155.	0.2	27
38	Mixed model assembly system with multiple secondary feeder lines: layout design and balancing procedure for ATO environment. International Journal of Production Research, 2012, 50, 5132-5151.	4.9	26
39	Agility in assembly systems: a comparison model. Assembly Automation, 2017, 37, 411-421.	1.0	26
40	Strategic View on Cobot Deployment in Assembly 4.0 Systems. IFAC-PapersOnLine, 2019, 52, 1519-1524.	0.5	26
41	Packaging strategy definition for sales kits within an assembly system. International Journal of Production Research, 2015, 53, 3288-3305.	4.9	24
42	Logistic Game, learning by doing and knowledge-sharing. Production Planning and Control, 2009, 20, 724-736.	5.8	23
43	Hybrid flexible assembly systems (H-FAS): bridging the gap between traditional and fully flexible assembly systems. International Journal of Advanced Manufacturing Technology, 2015, 81, 1289-1301.	1.5	23
44	A new methodological framework to implement an RFID project and its application. International Journal of RF Technologies: Research and Applications, 2009, 1, 77-94.	0.5	22
45	Multi-robot multi-operator collaborative assembly systems: a performance evaluation model. Journal of Intelligent Manufacturing, 2021, 32, 1455-1470.	4.4	21
46	Mixed-model sequencing optimization for an automated single-station fully flexible assembly system (F-FAS). International Journal of Advanced Manufacturing Technology, 2014, 70, 797-812.	1.5	20
47	Diagonal cross-aisles in unit load warehouses to increase handling performance. International Journal of Production Economics, 2015, 170, 838-849.	5.1	20
48	Design of diagonal cross-aisle warehouses with class-based storage assignment strategy. International Journal of Advanced Manufacturing Technology, 2019, 100, 2521-2536.	1.5	17
49	C-ALB (Collaborative Assembly Line Balancing): a new approach in cobot solutions. International Journal of Advanced Manufacturing Technology, 2021, 116, 3027-3042.	1.5	16
50	Real-time assistance to manual assembly through depth camera and visual feedback. Procedia CIRP, 2019, 81, 1254-1259.	1.0	15
51	Walking worker vs fixed worker assembly considering the impact of components exposure on assembly time and energy expenditure. International Journal of Advanced Manufacturing Technology, 2021, 112, 2971-2988.	1.5	14
52	Simulated annealing approach to solve dual resource constrained job shop scheduling problems: layout impact analysis on solution quality. International Journal of Mathematics in Operational Research, 2015, 7, 609.	0.1	13
53	Workstation-Operator Interaction in 4.0 Era: WOI 4.0. IFAC-PapersOnLine, 2018, 51, 399-404.	0.5	12
54	Modelling the spare parts stock levels and its applications in industrial systems. International Journal of Operational Research, 2010, 9, 39.	0.1	10

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55	Including Material Exposure and Part Attributes in the Manual Assembly Line Balancing Problem. IFAC-PapersOnLine, 2016, 49, 926-931.	0.5	10
56	Modelling the Growing Process of Integrated Healthcare Supply Networks. International Journal of System Dynamics Applications, 2013, 2, 1-13.	0.3	10
57	Design of an integrated quality assurance strategy in production systems. International Journal of Production Research, 2012, 50, 1682-1701.	4.9	9
58	Implementation framework for a fully flexible assembly system (F-FAS). Assembly Automation, 2015, 35, 114-121.	1.0	9
59	Macro and micro-logistic aspects in defining the parts-feeding policy in mixed-model assembly systems. International Journal of Services and Operations Management, 2018, 31, 433.	0.1	9
60	Evaluation of the mixed-model assembly line balancing problem with variable operation times and product mix. International Journal of Services and Operations Management, 2010, 6, 126.	0.1	8
61	Framework to optimise the inventory centralisation/ decentralisation degree and feeding policy in assembly systems. International Journal of Services and Operations Management, 2010, 6, 184.	0.1	8
62	Lean distribution principles to food logistics: a product category approach. International Journal of Operational Research, 2013, 16, 214.	0.1	8
63	Convenience analysis and validation of a fully flexible assembly system. , 2011, , .		7
64	Buffer design for availability: a new simulative study in case of infant and random failures. International Journal of Services and Operations Management, 2013, 14, 157.	0.1	7
65	Energy saving in case of intermittent production by retrofitting service plant systems through inverter technology: a feasibility study. International Journal of Production Research, 2014, 52, 462-481.	4.9	7
66	Variability-oriented assembly system design: a case study in the construction industry. Assembly Automation, 2011, 31, 348-357.	1.0	6
67	Stochastic timed Petri nets to dynamically design and simulate industrial production processes. International Journal of Logistics Systems and Management, 2016, 25, 20.	0.2	6
68	Optimization of a Kitting Line: A Case Study. Robotics, 2019, 8, 70.	2.1	6
69	Toward a Real-Time Reconfiguration of Self-Adaptive Smart Assembly Systems. Procedia Manufacturing, 2019, 39, 90-97.	1.9	6
70	Assembly kits with variable part physical attributes: warehouse layout design and assignment procedure. Assembly Automation, 2020, 40, 857-868.	1.0	6
71	The sustainable routing problem. International Journal of Services and Operations Management, 2013, 16, 310.	0.1	5
72	Multi-manned assembly line synchronization with compatible mounting positions, equipment sharing and workers cooperation. IFAC-PapersOnLine, 2019, 52, 1502-1507.	0.5	5

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73	Hierarchy of Smart Awareness in Assembly 4.0 Systems. IFAC-PapersOnLine, 2019, 52, 1508-1512.	0.5	5
74	Macro and micro-logistic aspects in defining the parts-feeding policy in mixed-model assembly systems. International Journal of Services and Operations Management, 2018, 31, 433.	0.1	5
75	Routing strategy in a distribution network when the driver learning effect is considered. International Journal of Logistics Systems and Management, 2015, 21, 385.	0.2	4
76	Throughput maximization and buffer design of robotized flexible production systems with feeder renewals and priority rules. International Journal of Advanced Manufacturing Technology, 2016, 85, 891-907.	1.5	4
77	Running Smart Monitoring Maintenance Application Using Cooja Simulator. International Journal of Engineering Research in Africa, 2019, 42, 149-159.	0.7	4
78	Intelligent sensor impact on predictive maintenance program costs. International Journal of Mathematics in Operational Research, 2020, 17, 170.	0.1	4
79	Energy saving in operations management through variable-speed drive technology: environmental versus economic convenience. International Journal of Services and Operations Management, 2017, 26, 68.	0.1	3
80	MTO/MTS policy optimization for sheet metal plate parts in an ATO environment. Procedia CIRP, 2019, 81, 1046-1051.	1.0	3
81	A new approach for performance assessment of parallel and non-bottleneck machines in a dynamic job shop environment. International Journal of Energy Sector Management, 2019, 13, 787-803.	1.2	3
82	Digitization of Assembly Line for Complex Products â€˜ The Digital Nursery of Workpiece Digital Twins. IFAC-PapersOnLine, 2021, 54, 158-162.	0.5	3
83	Towards Optimum Energy Utilization by Using the Inverters for Industrial Production. Procedia Manufacturing, 2019, 39, 712-720.	1.9	2
84	Control Model for Collaborative Manufacturing: An Integrated Opened Framework for Human-Robot Collaboration. Mechanisms and Machine Science, 2021, , 403-413.	0.3	2
85	Sustainable People Home-Work Logistics: An Integrated Model of Circular Economy in the Chiampo Valley. Sustainability, 2021, 13, 12009.	1.6	2
86	Assembly line balancing for personalized production. IFAC-PapersOnLine, 2020, 53, 10261-10266.	0.5	2
87	A tri-objective model for the manual assembly line design integrating economic, technical and ergonomic aspects. IFAC-PapersOnLine, 2021, 54, 607-612.	0.5	2
88	Absenteeism and Turnover as Motivation Factors for Segmenting Assembly Lines. IFAC-PapersOnLine, 2021, 54, 613-616.	0.5	2
89	Walking Workers systems: a sequence analysis for flexible mixed model lines. IFAC-PapersOnLine, 2021, 54, 601-606.	0.5	2
90	Service spare parts versus production parts: a centralised or decentralised warehouse?. International Journal of Logistics Systems and Management, 2015, 20, 516.	0.2	1

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91	The Influence of the Picking Times of the Components in Time and Space Assembly Line Balancing Problems: An Approach with Evolutionary Algorithms. , 2015, , .		1
92	Techno-Economic Design of Wind Farms: A Methodology and Multi-Scenario Application. Procedia Manufacturing, 2019, 39, 1270-1278.	1.9	1
93	Theoretical analysis of wind flow characteristics to investigate the mass and momentum parameters using a novel computational fluid dynamics-based approach. International Journal of Energy and Environmental Engineering, 2021, 12, 467-474.	1.3	1
94	A Comparative Analysis of Job Scheduling for Optimum Performance of Parallel Machines by Considering the Energy Consumption. European Journal of Engineering Research and Science, 2018, 3, 6.	0.3	1
95	Energy saving in operations management through variable-speed drive technology: environmental versus economic convenience. International Journal of Services and Operations Management, 2017, 26, 68.	0.1	1
96	Sales Kit Automated Production: An Integrated Procedure for Setup Reduction in Case of High Products Variety. Applied Sciences (Switzerland), 2021, 11, 10110.	1.3	1
97	â€œStation-Sequenceâ€parts feeding in mixed models assembly: Impact of variations and industry 4.0 possible solutions. IFAC-PapersOnLine, 2020, 53, 10279-10284.	0.5	1
98	Determining Manager's Load & Control Span by Modeling Management as a Service Activity. , 2016, , .		0
99	Technical and economic modelling and evaluation of a water distribution system equipped with an autoclave for industrial production applications. Journal of Engineering, Design and Technology, 2018, 16, 342-359.	1.1	0
100	Push/Pull Parts Production Policy Optimization in the ATO Environment. Applied Sciences (Switzerland), 2021, 11, 6570.	1.3	0
101	ABSENTEEISM AND TURNOVER PERFORMANCE ANALYSIS OF MULTI-MODEL AND MIXED-MODEL ASSEMBLY LINES. International Journal of Industrial and Systems Engineering, 2021, 1, 1.	0.1	0
102	Optimal Operation and Scheduling of Parallel Machines in Jobshop Environments. Management of Sustainable Development, 2018, 10, 33-43.	0.1	0
103	Techno-economic design of wind farms: a multi-scenario cost-based application. Environmental Research, Engineering and Management, 2019, 75, 6-17.	0.4	0
104	Intelligent sensor impact on predictive maintenance program costs. International Journal of Mathematics in Operational Research, 2020, 1, 1.	0.1	0
105	A Comparative Analysis of Job Scheduling for Optimum Performance of Parallel Machines by Considering the Energy Consumption. European Journal of Education and Pedagogy, 2018, 3, 6-11.	0.2	0