Maurizio Faccio

List of Publications by Year
in descending order

105	3,114	172207	168136
papers	citations	29 h-index	53 g-index

109	109	109	2306
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Human factors in cobot era: a review of modern production systems features. Journal of Intelligent Manufacturing, 2023, 34, 85-106.	4.4	30
2	Deploying cobots in collaborative systems: major considerations and productivity analysis. International Journal of Production Research, 2022, 60, 1815-1831.	4.9	37
3	Adaptive Automation Assembly Systems in the Industry 4.0 Era: A Reference Framework and Fullâ€“Scale Prototype. Applied Sciences (Switzerland), 2021, 11, 1256.	1.3	33
4	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
5	Multi-robot multi-operator collaborative assembly systems: a performance evaluation model. Journal of Intelligent Manufacturing, 2021, 32, 1455-1470.	4.4	21
6	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
7	Push/Pull Parts Production Policy Optimization in the ATO Environment. Applied Sciences (Switzerland), 2021, 11, 6570.	1.3	0
8	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
9	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
10	Control Model for Collaborative Manufacturing: An Integrated Opened Framework for Human-Robot Collaboration. Mechanisms and Machine Science, 2021, , 403-413.	0.3	2
11	Sustainable People Home-Work Logistics: An Integrated Model of Circular Economy in the Chiampo Valley. Sustainability, 2021, 13, 12009.	1.6	2
12	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
13	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
14	Digitization of Assembly Line for Complex Products â€’ The Digital Nursery of Workpiece Digital Twins. IFAC-PapersOnLine, 2021, 54, 158-162.	0.5	3
15	Absenteeism and Turnover as Motivation Factors for Segmenting Assembly Lines. IFAC-PapersOnLine, 2021, 54, 613-616.	0.5	2
16	Walking Workers systems: a sequence analysis for flexible mixed model lines. IFAC-PapersOnLine, 2021, 54, 601-606.	0.5	2
17	Motion Analysis System (MAS) for production and ergonomics assessment in the manufacturing processes. Computers and Industrial Engineering, 2020, 139, 105485.	3.4	91
18	The influence of the product characteristics on human-robot collaboration: a model for the performance of collaborative robotic assembly. International Journal of Advanced Manufacturing Technology, 2020, 106, 2317-2331.	1.5	34

#	Article	IF	Citations
19	Design, engineering and testing of an innovative adaptive automation assembly system. Assembly Automation, 2020, 40, 531-540.	1.0	45
20	Assembly kits with variable part physical attributes: warehouse layout design and assignment procedure. Assembly Automation, 2020, 40, 857-868.	1.0	6
21	Intelligent sensor impact on predictive maintenance program costs. International Journal of Mathematics in Operational Research, 2020, 17, 170.	0.1	4
22	Learning manual assembly through real-time motion capture for operator training with augmented reality. Procedia Manufacturing, 2020, 45, 189-195.	1.9	29
23	Intelligent sensor impact on predictive maintenance program costs. International Journal of Mathematics in Operational Research, 2020, 1, 1.	0.1	0
24	Assembly line balancing for personalized production. IFAC-PapersOnLine, 2020, 53, 10261-10266.	0.5	2
25	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
26	Optimization of a Kitting Line: A Case Study. Robotics, 2019, 8, 70.	2.1	6
27	MTO/MTS policy optimization for sheet metal plate parts in an ATO environment. Procedia CIRP, 2019, 81, 1046-1051.	1.0	3
28	Real-time assistance to manual assembly through depth camera and visual feedback. Procedia CIRP, 2019, 81, 1254-1259.	1.0	15
29	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
30	Running Smart Monitoring Maintenance Application Using Cooja Simulator. International Journal of Engineering Research in Africa, 2019, 42, 149-159.	0.7	4
31	Human Factor Analyser for work measurement of manual manufacturing and assembly processes. International Journal of Advanced Manufacturing Technology, 2019, 103, 861-877.	1.5	39
32	Toward a Real-Time Reconfiguration of Self-Adaptive Smart Assembly Systems. Procedia Manufacturing, 2019, 39, 90-97.	1.9	6
33	Towards Optimum Energy Utilization by Using the Inverters for Industrial Production. Procedia Manufacturing, 2019, 39, 712-720.	1.9	2
34	Techno-Economic Design of Wind Farms: A Methodology and Multi-Scenario Application. Procedia Manufacturing, 2019, 39, 1270-1278.	1.9	1
35	Design and management of digital manufacturing and assembly systems in the Industry 4.0 era. International Journal of Advanced Manufacturing Technology, 2019, 105, 3565-3577.	1.5	116
36	Multi-manned assembly line synchronization with compatible mounting positions, equipment sharing and workers cooperation. IFAC-PapersOnLine, 2019, 52, 1502-1507.	0.5	5

#	Article	IF	Citations
37	Hierarchy of Smart Awareness in Assembly 4.0 Systems. IFAC-PapersOnLine, 2019, 52, 1508-1512.	0.5	5
38	Strategic View on Cobot Deployment in Assembly 4.0 Systems. IFAC-PapersOnLine, 2019, 52, 1519-1524.	0.5	26
39	Humanâ€“Robot Collaboration in Manufacturing Applications: A Review. Robotics, 2019, 8, 100.	2.1	303
40	Collaborative and traditional robotic assembly: a comparison model. International Journal of Advanced Manufacturing Technology, 2019, 102, 1355-1372.	1.5	73
41	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
42	Techno-economic design of wind farms: a multi-scenario cost-based application. Environmental Research, Engineering and Management, 2019, 75, 6-17.	0.4	0
43	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
44	Workstationâ€'Operator Interaction in 4.0 Era: WOI 4.0. IFAC-PapersOnLine, 2018, 51, 399-404.	0.5	12
45	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
46	State-of-art review of the optimization methods to design the configuration of hybrid renewable energy systems (HRESs). Frontiers in Energy, 2018, 12, 591-622.	1.2	43
47	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
48	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
49	Optimal Operation and Scheduling of Parallel Machines in Jobshop Environments. Management of Sustainable Development, 2018, 10, 33-43.	0.1	0
50	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
51	Assembly system design in the Industry 4.0 era: a general framework. IFAC-PapersOnLine, 2017, 50, 5700-5705.	0.5	183
52	Assembly system configuration through Industry 4.0 principles: the expected change in the actual paradigms. IFAC-PapersOnLine, 2017, 50, 14958-14963.	0.5	65
53	Multi-objective assembly line balancing considering component picking and ergonomic risk. Computers and Industrial Engineering, 2017, 112, 348-367.	3.4	53
54	Agility in assembly systems: a comparison model. Assembly Automation, 2017, 37, 411-421.	1.0	26

#	Article	IF	Citations
55	Time and energy optimal unit-load assignment for automatic S/R warehouses. International Journal of Production Economics, 2017, 190, 133-145.	5.1	29
56	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
57	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
58	Multi-objective design of multi-modal fresh food distribution networks. International Journal of Logistics Systems and Management, 2016, 24, 155.	0.2	27
59	Determining Manager's Load & Control Span by Modeling Management as a Service Activity. , 2016, , .		0
60	Including Material Exposure and Part Attributes in the Manual Assembly Line Balancing Problem. IFAC-PapersOnLine, 2016, 49, 926-931.	0.5	10
61	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
62	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
63	Fresh food sustainable distribution: cost, delivery time and carbon footprint three-objective optimization. Journal of Food Engineering, 2016, 174, 56-67.	2.7	155
64	Hierarchical approach for paced mixed-model assembly line balancing and sequencing with jolly operators. International Journal of Production Research, 2016, 54, 761-777.	4.9	30
65	New City Logistics Paradigm: From the â€œLast Mileâ€•to the â€œLast 50 Milesâ€•Sustainable Distribution. Sustainability, 2015, 7, 14873-14894.	1.6	39
66	Service spare parts versus production parts: a centralised or decentralised warehouse?. International Journal of Logistics Systems and Management, 2015, 20, 516.	0.2	1
67	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
68	The Influence of the Picking Times of the Components in Time and Space Assembly Line Balancing Problems: An Approach with Evolutionary Algorithms. , 2015, , .		1
69	Implementation framework for a fully flexible assembly system (F-FAS). Assembly Automation, 2015, 35, 114-121.	1.0	9
70	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
71	Hybrid fexible 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
72	Packaging strategy definition for sales kits within an assembly system. International Journal of Production Research, 2015, 53, 3288-3305.	4.9	24

#	Article	IF	Citations
73	Diagonal cross-aisles in unit load warehouses to increase handling performance. International Journal of Production Economics, 2015, 170, 838-849.	5.1	20
74	Inventory holding costs measurement: a multi-case study. International Journal of Logistics Management, 2014, 25, 109-132.	4.1	52
75	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
76	The impact of production mix variations and models varieties on the parts-feeding policy selection in a JIT assembly system. International Journal of Advanced Manufacturing Technology, 2014, 72, 543-560.	1.5	50
77	Sustainable SC through the complete reprocessing of end-of-life products by manufacturers: A traditional versus social responsibility company perspective. European Journal of Operational Research, 2014, 233, 359-373.	3.5	49
78	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
79	Industrial maintenance policy development: A quantitative framework. International Journal of Production Economics, 2014, 147, 85-93.	5.1	72
80	Design and simulation of assembly line feeding systems in the automotive sector using supermarket, kanbans and tow trains: a general framework. Journal of Management Control, 2013, 24, 187-208.	0.8	43
81	Kanban number optimisation in a supermarket warehouse feeding a mixed-model assembly system. International Journal of Production Research, 2013, 51, 2997-3017.	4.9	46
82	Fully flexible assembly systems (Fâ€FAS): a new concept in flexible automation. Assembly Automation, 2013, 33, 8-21.	1.0	62
83	Lean distribution principles to food logistics: a product category approach. International Journal of Operational Research, 2013, 16, 214.	0.1	8
84	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
85	The sustainable routing problem. International Journal of Services and Operations Management, 2013, 16, 310.	0.1	5
86	Modelling and optimization of fully flexible assembly systems (Fâ€FAS). Assembly Automation, 2013, 33, 165-174.	1.0	34
87	Modelling the Growing Process of Integrated Healthcare Supply Networks. International Journal of System Dynamics Applications, 2013, 2, 1-13.	0.3	10
88	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
89	Design of an integrated quality assurance strategy in production systems. International Journal of Production Research, 2012, 50, 1682-1701.	4.9	9
90	Sequencing procedure for balancing the workloads variations in case of mixed model assembly system with multiple secondary feeder lines. International Journal of Production Research, 2012, 50, 6081-6098.	4.9	33

#	Article	IF	Citations
91	Lot splitting scheduling procedure for makespan reduction and machine capacity increase in a hybrid flow shop with batch production. International Journal of Advanced Manufacturing Technology, 2012, 59, 775-786.	1.5	27
92	Multi-stage supply network design in case of reverse flows: a closed-loop approach. International Journal of Operational Research, 2011, 12, 157.	0.1	30
93	Waste collection multi objective model with real time traceability data. Waste Management, 2011, 31, 2391-2405.	3.7	201
94	Variabilityâ€oriented assembly system design: a case study in the construction industry. Assembly Automation, 2011, 31, 348-357.	1.0	6
95	Innovative travel time model for dual-shuttle automated storage/retrieval systems. Computers and Industrial Engineering, 2011, 61, 600-607.	3.4	31
96	New methodological framework to improve productivity and ergonomics in assembly system design. International Journal of Industrial Ergonomics, 2011, 41, 30-42.	1.5	209
97	Convenience analysis and validation of a fully flexible assembly system. , 2011, , .		7
98	Modelling the spare parts stock levels and its applications in industrial systems. International Journal of Operational Research, 2010, 9, 39.	0.1	10
99	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
100	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
101	â€œSupermarket warehousesâ€• stocking policies optimization in an assembly-to-order environment. International Journal of Advanced Manufacturing Technology, 2010, 50, 775-788.	1.5	51
102	Logistic Gameâ„¢: learning by doing and knowledge-sharing. Production Planning and Control, 2009, 20, 724-736.	5.8	23
103	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
104	Balancingâ€“sequencing procedure for a mixed model assembly system in case of finite buffer capacity. International Journal of Advanced Manufacturing Technology, 2009, 44, 345-359.	1.5	49
105	Design of the optimal feeding policy in an assembly system. International Journal of Production Economics, 2009, 121, 233-254.	5.1	100