

# Francesco Pilati

## List of Publications by Year in descending order

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49  
papers

1,510  
citations

361045

20  
h-index

315357

38  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1417  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assembly system design in the Industry 4.0 era: a general framework. IFAC-PapersOnLine, 2017, 50, 5700-5705.	0.5	183
2	Fresh food sustainable distribution: cost, delivery time and carbon footprint three-objective optimization. Journal of Food Engineering, 2016, 174, 56-67.	2.7	155
3	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
4	Assembly systems in Industry 4.0 era: a road map to understand Assembly 4.0. International Journal of Advanced Manufacturing Technology, 2019, 105, 4037-4054.	1.5	110
5	Motion Analysis System (MAS) for production and ergonomics assessment in the manufacturing processes. Computers and Industrial Engineering, 2020, 139, 105485.	3.4	91
6	Economic and environmental bi-objective design of an off-grid photovoltaicâ€“batteryâ€“diesel generator hybrid energy system. Energy Conversion and Management, 2015, 106, 1024-1038.	4.4	74
7	Assembly system configuration through Industry 4.0 principles: the expected change in the actual paradigms. IFAC-PapersOnLine, 2017, 50, 14958-14963.	0.5	65
8	Performance and viability analysis of small wind turbines in the European Union. Renewable Energy, 2014, 62, 629-639.	4.3	54
9	Multi-objective assembly line balancing considering component picking and ergonomic risk. Computers and Industrial Engineering, 2017, 112, 348-367.	3.4	53
10	Automatic assessment of the ergonomic risk for manual manufacturing and assembly activities through optical motion capture technology. Procedia CIRP, 2018, 72, 81-86.	1.0	48
11	Design, engineering and testing of an innovative adaptive automation assembly system. Assembly Automation, 2020, 40, 531-540.	1.0	45
12	Multi-objective warehouse building design to optimize the cycle time, total cost, and carbon footprint. International Journal of Advanced Manufacturing Technology, 2017, 92, 839-854.	1.5	40
13	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
14	Predictive Maintenance: A Novel Framework for a Data-Driven, Semi-Supervised, and Partially Online Prognostic Health Management Application in Industries. Applied Sciences (Switzerland), 2021, 11, 3380.	1.3	36
15	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
16	Reconfigurability in cellular manufacturing systems: a design model and multi-scenario analysis. International Journal of Advanced Manufacturing Technology, 2019, 104, 4387-4397.	1.5	31
17	Time and energy optimal unit-load assignment for automatic S/R warehouses. International Journal of Production Economics, 2017, 190, 133-145.	5.1	29
18	Learning manual assembly through real-time motion capture for operator training with augmented reality. Procedia Manufacturing, 2020, 45, 189-195.	1.9	29

#	ARTICLE	IF	CITATIONS
19	Multi-objective design of multi-modal fresh food distribution networks. <i>International Journal of Logistics Systems and Management</i> , 2016, 24, 155.	0.2	27
20	Packaging strategy definition for sales kits within an assembly system. <i>International Journal of Production Research</i> , 2015, 53, 3288-3305.	4.9	24
21	Digital Twin of COVID-19 Mass Vaccination Centers. <i>Sustainability</i> , 2021, 13, 7396.	1.6	22
22	Unit-load storage assignment strategy for warehouses in seismic areas. <i>Computers and Industrial Engineering</i> , 2015, 87, 481-490.	3.4	19
23	The Sustainable Parcel Delivery (SPD) Problem: Economic and Environmental Considerations for 3PLs. <i>IEEE Access</i> , 2020, 8, 71880-71892.	2.6	19
24	Artificial Intelligence for Hospital Health Care: Application Cases and Answers to Challenges in European Hospitals. <i>Healthcare (Switzerland)</i> , 2021, 9, 961.	1.0	18
25	Digital twin-enabled smart industrial systems: recent developments and future perspectives. <i>International Journal of Computer Integrated Manufacturing</i> , 2021, 34, 685-689.	2.9	18
26	Design of diagonal cross-aisle warehouses with class-based storage assignment strategy. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 100, 2521-2536.	1.5	17
27	Real-time assistance to manual assembly through depth camera and visual feedback. <i>Procedia CIRP</i> , 2019, 81, 1254-1259.	1.0	15
28	Motion Analysis System for the digitalization and assessment of manual manufacturing and assembly processes. <i>IFAC-PapersOnLine</i> , 2018, 51, 411-416.	0.5	14
29	New RFID pick-to-light system: Operating characteristics and future potential. <i>International Journal of RF Technologies: Research and Applications</i> , 2016, 7, 43-63.	0.5	12
30	Refrigeration System Optimization for Drinking Water Production Through Atmospheric Air Dehumidification. , 2015, , 259-280.		9
31	Multi-Manned Assembly Line Balancing: Workforce Synchronization for Big Data Sets through Simulated Annealing. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2523.	1.3	8
32	Design, Prototyping, and Assessment of a Wastewater Closed-Loop Recovery and Purification System. <i>Sustainability</i> , 2017, 9, 1938.	1.6	7
33	Intelligent management of hybrid energy systems for techno-economic performances maximisation. <i>Energy Conversion and Management</i> , 2020, 224, 113329.	4.4	7
34	Assembly kits with variable part physical attributes: warehouse layout design and assignment procedure. <i>Assembly Automation</i> , 2020, 40, 857-868.	1.0	6
35	Preventing COVID-19 contagion in industrial environments through anonymous contact tracing. , 2021, , .		6
36	Multi-manned assembly line synchronization with compatible mounting positions, equipment sharing and workers cooperation. <i>IFAC-PapersOnLine</i> , 2019, 52, 1502-1507.	0.5	5

#	ARTICLE	IF	CITATIONS
37	Analysis of Mobility Patterns in Selected University Campus Areas. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 426-433.	0.5	4
38	Multi-Objective Optimizer for Multimodal Distribution Networks. <i>Advances in Civil and Industrial Engineering Book Series</i> , 2016, , 330-370.	0.2	4
39	The storage of perishable products: A decision-support tool to manage temperature-sensitive products warehouses. , 2019, , 131-143.		3
40	Digitization of Assembly Line for Complex Products â€™ The Digital Nursery of Workpiece Digital Twins. <i>IFAC-PapersOnLine</i> , 2021, 54, 158-162.	0.5	3
41	Towards Optimum Energy Utilization by Using the Inverters for Industrial Production. <i>Procedia Manufacturing</i> , 2019, 39, 712-720.	1.9	2
42	Industry 4.0 at the service of public health against the COVID-19 pandemic. <i>Disaster Medicine and Public Health Preparedness</i> , 2021, , 1-4.	0.7	2
43	Assembly line balancing for personalized production. <i>IFAC-PapersOnLine</i> , 2020, 53, 10261-10266.	0.5	2
44	Absenteeism and Turnover as Motivation Factors for Segmenting Assembly Lines. <i>IFAC-PapersOnLine</i> , 2021, 54, 613-616.	0.5	2
45	Assembly line balancing and activity scheduling for customised products manufacturing. <i>International Journal of Advanced Manufacturing Technology</i> , 0, , 1.	1.5	2
46	The Influence of the Picking Times of the Components in Time and Space Assembly Line Balancing Problems: An Approach with Evolutionary Algorithms. , 2015, , .		1
47	A model to enhance the penetration of the renewables to power multistage food supply chains. , 2019, , 305-315.		1
48	Optimal Operations Management of Hybrid Energy Systems Through Short-Term Atmospheric and Demand Forecasts. <i>Procedia Manufacturing</i> , 2019, 39, 702-711.	1.9	0
49	Design and Management of Renewable Smart Energy Systems: An Optimization Model and Italian Case Study. , 2019, , 1340-1352.		0