

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
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49
all docs

49
docs citations

49
times ranked

1417
citing authors

#	ARTICLE	IF	CITATIONS
1	Adaptive Automation Assembly Systems in the Industry 4.0 Era: A Reference Framework and Full-Scale Prototype. Applied Sciences (Switzerland), 2021, 11, 1256.	1.3	33
2	Multi-Manned Assembly Line Balancing: Workforce Synchronization for Big Data Sets through Simulated Annealing. Applied Sciences (Switzerland), 2021, 11, 2523.	1.3	8
3	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
4	Preventing COVID-19 contagion in industrial environments through anonymous contact tracing. , 2021, , .		6
5	Digital Twin of COVID-19 Mass Vaccination Centers. Sustainability, 2021, 13, 7396.	1.6	22
6	Artificial Intelligence for Hospital Health Care: Application Cases and Answers to Challenges in European Hospitals. Healthcare (Switzerland), 2021, 9, 961.	1.0	18
7	Digital twin-enabled smart industrial systems: recent developments and future perspectives. International Journal of Computer Integrated Manufacturing, 2021, 34, 685-689.	2.9	18
8	Industry 4.0 at the service of public health against the COVID-19 pandemic. Disaster Medicine and Public Health Preparedness, 2021, , 1-4.	0.7	2
9	Digitization of Assembly Line for Complex Products - The Digital Nursery of Workpiece Digital Twins. IFAC-PapersOnLine, 2021, 54, 158-162.	0.5	3
10	Absenteeism and Turnover as Motivation Factors for Segmenting Assembly Lines. IFAC-PapersOnLine, 2021, 54, 613-616.	0.5	2
11	Motion Analysis System (MAS) for production and ergonomics assessment in the manufacturing processes. Computers and Industrial Engineering, 2020, 139, 105485.	3.4	91
12	Intelligent management of hybrid energy systems for techno-economic performances maximisation. Energy Conversion and Management, 2020, 224, 113329.	4.4	7
13	Design, engineering and testing of an innovative adaptive automation assembly system. Assembly Automation, 2020, 40, 531-540.	1.0	45
14	Assembly kits with variable part physical attributes: warehouse layout design and assignment procedure. Assembly Automation, 2020, 40, 857-868.	1.0	6
15	Learning manual assembly through real-time motion capture for operator training with augmented reality. Procedia Manufacturing, 2020, 45, 189-195.	1.9	29
16	The Sustainable Parcel Delivery (SPD) Problem: Economic and Environmental Considerations for 3PLs. IEEE Access, 2020, 8, 71880-71892.	2.6	19
17	Assembly line balancing for personalized production. IFAC-PapersOnLine, 2020, 53, 10261-10266.	0.5	2
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	Real-time assistance to manual assembly through depth camera and visual feedback. Procedia CIRP, 2019, 81, 1254-1259.	1.0	15
21	The storage of perishable products: A decision-support tool to manage temperature-sensitive products warehouses. , 2019, , 131-143.		3
22	A model to enhance the penetration of the renewables to power multistage food supply chains. , 2019, , 305-315.		1
23	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
24	Optimal Operations Management of Hybrid Energy Systems Through Short-Term Atmospheric and Demand Forecasts. Procedia Manufacturing, 2019, 39, 702-711.	1.9	0
25	Towards Optimum Energy Utilization by Using the Inverters for Industrial Production. Procedia Manufacturing, 2019, 39, 712-720.	1.9	2
26	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
27	Multi-manned assembly line synchronization with compatible mounting positions, equipment sharing and workers cooperation. IFAC-PapersOnLine, 2019, 52, 1502-1507.	0.5	5
28	Design and Management of Renewable Smart Energy Systems: An Optimization Model and Italian Case Study. , 2019, , 1340-1352.		0
29	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
30	Analysis of Mobility Patterns in Selected University Campus Areas. Advances in Intelligent Systems and Computing, 2019, , 426-433.	0.5	4
31	Motion Analysis System for the digitalization and assessment of manual manufacturing and assembly processes. IFAC-PapersOnLine, 2018, 51, 411-416.	0.5	14
32	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
33	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
34	Assembly system design in the Industry 4.0 era: a general framework. IFAC-PapersOnLine, 2017, 50, 5700-5705.	0.5	183
35	Assembly system configuration through Industry 4.0 principles: the expected change in the actual paradigms. IFAC-PapersOnLine, 2017, 50, 14958-14963.	0.5	65
36	Multi-objective assembly line balancing considering component picking and ergonomic risk. Computers and Industrial Engineering, 2017, 112, 348-367.	3.4	53

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37	Time and energy optimal unit-load assignment for automatic S/R warehouses. International Journal of Production Economics, 2017, 190, 133-145.	5.1	29
38	Design, Prototyping, and Assessment of a Wastewater Closed-Loop Recovery and Purification System. Sustainability, 2017, 9, 1938.	1.6	7
39	Multi-objective design of multi-modal fresh food distribution networks. International Journal of Logistics Systems and Management, 2016, 24, 155.	0.2	27
40	New RFID pick-to-light system: Operating characteristics and future potential. International Journal of RF Technologies: Research and Applications, 2016, 7, 43-63.	0.5	12
41	Fresh food sustainable distribution: cost, delivery time and carbon footprint three-objective optimization. Journal of Food Engineering, 2016, 174, 56-67.	2.7	155
42	Multi-Objective Optimizer for Multimodal Distribution Networks. Advances in Civil and Industrial Engineering Book Series, 2016, , 330-370.	0.2	4
43	The Influence of the Picking Times of the Components in Time and Space Assembly Line Balancing Problems: An Approach with Evolutionary Algorithms. , 2015, , .		1
44	Packaging strategy definition for sales kits within an assembly system. International Journal of Production Research, 2015, 53, 3288-3305.	4.9	24
45	Unit-load storage assignment strategy for warehouses in seismic areas. Computers and Industrial Engineering, 2015, 87, 481-490.	3.4	19
46	Economic and environmental bi-objective design of an off-grid photovoltaic“battery”diesel generator hybrid energy system. Energy Conversion and Management, 2015, 106, 1024-1038.	4.4	74
47	Refrigeration System Optimization for Drinking Water Production Through Atmospheric Air Dehumidification. , 2015, , 259-280.		9
48	Performance and viability analysis of small wind turbines in the European Union. Renewable Energy, 2014, 62, 629-639.	4.3	54
49	Assembly line balancing and activity scheduling for customised products manufacturing. International Journal of Advanced Manufacturing Technology, 0, , 1.	1.5	2