

Francesco Pilati

List of Publications by Year in descending order

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49
papers

1,510
citations

361413
20
h-index

315739
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.	0.9	183
2	Fresh food sustainable distribution: cost, delivery time and carbon footprint three-objective optimization. Journal of Food Engineering, 2016, 174, 56-67.	5.2	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.	3.0	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.	3.0	110
5	Motion Analysis System (MAS) for production and ergonomics assessment in the manufacturing processes. Computers and Industrial Engineering, 2020, 139, 105485.	6.3	91
6	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.	9.2	74
7	Assembly system configuration through Industry 4.0 principles: the expected change in the actual paradigms. IFAC-PapersOnLine, 2017, 50, 14958-14963.	0.9	65
8	Performance and viability analysis of small wind turbines in the European Union. Renewable Energy, 2014, 62, 629-639.	8.9	54
9	Multi-objective assembly line balancing considering component picking and ergonomic risk. Computers and Industrial Engineering, 2017, 112, 348-367.	6.3	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.	1.9	48
11	Design, engineering and testing of an innovative adaptive automation assembly system. Assembly Automation, 2020, 40, 531-540.	1.7	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.	3.0	40
13	Human Factor Analyser for work measurement of manual manufacturing and assembly processes. International Journal of Advanced Manufacturing Technology, 2019, 103, 861-877.	3.0	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.	2.5	36
15	Adaptive Automation Assembly Systems in the Industry 4.0 Era: A Reference Framework and Full“Scale Prototype. Applied Sciences (Switzerland), 2021, 11, 1256.	2.5	33
16	Reconfigurability in cellular manufacturing systems: a design model and multi-scenario analysis. International Journal of Advanced Manufacturing Technology, 2019, 104, 4387-4397.	3.0	31
17	Time and energy optimal unit-load assignment for automatic S/R warehouses. International Journal of Production Economics, 2017, 190, 133-145.	8.9	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. International Journal of Logistics Systems and Management, 2016, 24, 155.	0.2	27
20	Packaging strategy definition for sales kits within an assembly system. International Journal of Production Research, 2015, 53, 3288-3305.	7.5	24
21	Digital Twin of COVID-19 Mass Vaccination Centers. Sustainability, 2021, 13, 7396.	3.2	22
22	Unit-load storage assignment strategy for warehouses in seismic areas. Computers and Industrial Engineering, 2015, 87, 481-490.	6.3	19
23	The Sustainable Parcel Delivery (SPD) Problem: Economic and Environmental Considerations for 3PLs. IEEE Access, 2020, 8, 71880-71892.	4.2	19
24	Artificial Intelligence for Hospital Health Care: Application Cases and Answers to Challenges in European Hospitals. Healthcare (Switzerland), 2021, 9, 961.	2.0	18
25	Digital twin-enabled smart industrial systems: recent developments and future perspectives. International Journal of Computer Integrated Manufacturing, 2021, 34, 685-689.	4.6	18
26	Design of diagonal cross-aisle warehouses with class-based storage assignment strategy. International Journal of Advanced Manufacturing Technology, 2019, 100, 2521-2536.	3.0	17
27	Real-time assistance to manual assembly through depth camera and visual feedback. Procedia CIRP, 2019, 81, 1254-1259.	1.9	15
28	Motion Analysis System for the digitalization and assessment of manual manufacturing and assembly processes. IFAC-PapersOnLine, 2018, 51, 411-416.	0.9	14
29	New RFID pick-to-light system: Operating characteristics and future potential. International Journal of RF Technologies: Research and Applications, 2016, 7, 43-63.	0.7	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. Applied Sciences (Switzerland), 2021, 11, 2523.	2.5	8
32	Design, Prototyping, and Assessment of a Wastewater Closed-Loop Recovery and Purification System. Sustainability, 2017, 9, 1938.	3.2	7
33	Intelligent management of hybrid energy systems for techno-economic performances maximisation. Energy Conversion and Management, 2020, 224, 113329.	9.2	7
34	Assembly kits with variable part physical attributes: warehouse layout design and assignment procedure. Assembly Automation, 2020, 40, 857-868.	1.7	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. IFAC-PapersOnLine, 2019, 52, 1502-1507.	0.9	5

#	ARTICLE	IF	CITATIONS
37	Analysis of Mobility Patterns in Selected University Campus Areas. Advances in Intelligent Systems and Computing, 2019, , 426-433.	0.6	4
38	Multi-Objective Optimizer for Multimodal Distribution Networks. Advances in Civil and Industrial Engineering Book Series, 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. IFAC-PapersOnLine, 2021, 54, 158-162.	0.9	3
41	Towards Optimum Energy Utilization by Using the Inverters for Industrial Production. Procedia Manufacturing, 2019, 39, 712-720.	1.9	2
42	Industry 4.0 at the service of public health against the COVID-19 pandemic. Disaster Medicine and Public Health Preparedness, 2021, , 1-4.	1.3	2
43	Assembly line balancing for personalized production. IFAC-PapersOnLine, 2020, 53, 10261-10266.	0.9	2
44	Absenteeism and Turnover as Motivation Factors for Segmenting Assembly Lines. IFAC-PapersOnLine, 2021, 54, 613-616.	0.9	2
45	Assembly line balancing and activity scheduling for customised products manufacturing. International Journal of Advanced Manufacturing Technology, 0, , 1.	3.0	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. Procedia Manufacturing, 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