

Fabio Sgarbossa

List of Publications by Year in descending order

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92
papers

3,621
citations

156536

32
h-index

169272

56
g-index

99
all docs

99
docs citations

99
times ranked

2314
citing authors

#	ARTICLE	IF	CITATIONS
1	A decision support system for configuring spare parts supply chains considering different manufacturing technologies. <i>International Journal of Production Research</i> , 2024, 62, 3023-3043.	4.9	38
2	Autonomous mobile robots in sterile instrument logistics: an evaluation of the material handling system for a strategic fit framework. <i>Production Planning and Control</i> , 2023, 34, 53-67.	5.8	11
3	Assembly line balancing problem with ergonomics: a new fatigue and recovery model. <i>International Journal of Production Research</i> , 2023, 61, 693-706.	4.9	15
4	Decision support model for implementing assistive technologies in assembly activities: a case study. <i>International Journal of Production Research</i> , 2022, 60, 1341-1367.	4.9	24
5	Increasing flexibility and productivity in Industry 4.0 production networks with autonomous mobile robots and smart intralogistics. <i>Annals of Operations Research</i> , 2022, 308, 125-143.	2.6	187
6	Designing and developing smart production planning and control systems in the industry 4.0 era: a methodology and case study. <i>Journal of Intelligent Manufacturing</i> , 2022, 33, 311-332.	4.4	61
7	A Joint Assembly Line Balancing and Feeding Problem (JALBFP) considering direct and indirect supply strategies. <i>International Journal of Production Research</i> , 2022, 60, 5727-5745.	4.9	4
8	Age-based preventive maintenance with multiple printing options. <i>International Journal of Production Economics</i> , 2022, 243, 108339.	5.1	25
9	A decision support system for designing win-win interventions impacting occupational safety and operational performance in ageing workforce contexts. <i>Safety Science</i> , 2022, 147, 105598.	2.6	8
10	Towards smart production planning and control; a conceptual framework linking planning environment characteristics with the need for smart production planning and control. <i>Annual Reviews in Control</i> , 2022, 53, 370-381.	4.4	13
11	Digitalization in production and warehousing in food supply chains. , 2022, , 273-287.		0
12	Including rest allowance in mixed-model assembly lines. <i>International Journal of Production Research</i> , 2021, 59, 7468-7490.	4.9	16
13	The complementary effect of lean manufacturing and digitalisation on operational performance. <i>International Journal of Production Research</i> , 2021, 59, 1976-1992.	4.9	124
14	Impact of Failure Rate Uncertainties on the Implementation of Additive Manufacturing in Spare Parts Supply Chains. <i>IFIP Advances in Information and Communication Technology</i> , 2021, , 291-299.	0.5	4
15	Additive Manufacturing and Spare Parts: Literature Review and Future Perspectives. <i>Lecture Notes in Electrical Engineering</i> , 2021, , 629-635.	0.3	5
16	Planning Autonomous Material Transportation in Hospitals. <i>IFIP Advances in Information and Communication Technology</i> , 2021, , 24-32.	0.5	1
17	Conventional or additive manufacturing for spare parts management: An extensive comparison for Poisson demand. <i>International Journal of Production Economics</i> , 2021, 233, 107993.	5.1	47
18	Machine learning-based predictive maintenance: A cost-oriented model for implementation. <i>International Journal of Production Economics</i> , 2021, 236, 108114.	5.1	40

#	ARTICLE	IF	CITATIONS
19	On risk-based maintenance: A comprehensive review of three approaches to track the impact of consequence modelling for predicting maintenance actions. <i>Journal of Loss Prevention in the Process Industries</i> , 2021, 72, 104555.	1.7	15
20	Planning and control of autonomous mobile robots for intralogistics: Literature review and research agenda. <i>European Journal of Operational Research</i> , 2021, 294, 405-426.	3.5	235
21	Cost modelling of onboard cobot-supported item sorting in a picking system. <i>International Journal of Production Research</i> , 2021, 59, 3269-3284.	4.9	14
22	Smart Production Planning and Control: Do All Planning Environments need to be Smart?. <i>IFAC-PapersOnLine</i> , 2021, 54, 355-360.	0.5	2
23	A literature review on the level of automation in picker-to-parts order picking system: research opportunities. <i>IFAC-PapersOnLine</i> , 2021, 54, 438-443.	0.5	7
24	Workers' rest allowance and smoothing of the workload in assembly lines. <i>International Journal of Production Research</i> , 2020, 58, 1255-1270.	4.9	47
25	Ageing workforce management in manufacturing systems: state of the art and future research agenda. <i>International Journal of Production Research</i> , 2020, 58, 729-747.	4.9	108
26	Age replacement policy in the case of no data: the effect of Weibull parameter estimation. <i>International Journal of Production Research</i> , 2020, 58, 5851-5869.	4.9	11
27	Modelling time efficiency of cobot-supported kit preparation. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 106, 2227-2241.	1.5	15
28	Smart Production Planning and Control: Concept, Use-Cases and Sustainability Implications. <i>Sustainability</i> , 2020, 12, 3791.	1.6	54
29	Human factors in production and logistics systems of the future. <i>Annual Reviews in Control</i> , 2020, 49, 295-305.	4.4	160
30	Door-to-door waste collection: Analysis and recommendations for improving ergonomics in an Italian case study. <i>Waste Management</i> , 2020, 109, 149-160.	3.7	25
31	Digital Facility Layout Planning. <i>Sustainability</i> , 2020, 12, 3349.	1.6	29
32	Autonomous Mobile Robots in Hospital Logistics. <i>IFIP Advances in Information and Communication Technology</i> , 2020, , 672-679.	0.5	22
33	Robot picker solution in order picking systems: an ergo-zoning approach. <i>IFAC-PapersOnLine</i> , 2020, 53, 10597-10602.	0.5	13
34	Introduction to Material Feeding 4.0: Strategic, Tactical, and Operational Impact. <i>IFIP Advances in Information and Communication Technology</i> , 2020, , 158-166.	0.5	1
35	Human-Oriented Assembly Line Balancing and Sequencing Model in the Industry 4.0 Era. <i>Profiles in Operations Research</i> , 2020, , 141-165.	0.3	7
36	Cloud Material Handling Systems: Conceptual Model and Cloud-Based Scheduling of Handling Activities. <i>Profiles in Operations Research</i> , 2020, , 87-101.	0.3	9

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37	A model for rest allowance estimation to improve tasks assignment to operators. International Journal of Production Research, 2019, 57, 948-962.	4.9	32
38	Vertical Lift Modules for small items order picking: an economic evaluation. International Journal of Production Economics, 2019, 210, 199-210.	5.1	14
39	Throughput models for a dual-bay VLM order picking system under different configurations. Industrial Management and Data Systems, 2019, 119, 1268-1288.	2.2	8
40	Kit Preparation with Cobot-supported Sorting in Mixed Model Assembly. IFAC-PapersOnLine, 2019, 52, 1878-1883.	0.5	12
41	An integrated storage assignment method for manual order picking warehouses considering cost, workload and posture. International Journal of Production Research, 2019, 57, 2392-2408.	4.9	52
42	Micro downtime. International Journal of Quality and Reliability Management, 2018, 35, 965-995.	1.3	19
43	A device to monitor fatigue level in order-picking. Industrial Management and Data Systems, 2018, 118, 714-727.	2.2	20
44	A Model to Optimize the Reference Storage Assignment in a Supermarket to Expedite the Part Feeding Activities. IFAC-PapersOnLine, 2018, 51, 1470-1475.	0.5	2
45	Impacts of weibull parameters estimation on preventive maintenance cost. IFAC-PapersOnLine, 2018, 51, 508-513.	0.5	13
46	Multi-objective optimization of assembly lines with workers fatigue consideration. IFAC-PapersOnLine, 2018, 51, 698-703.	0.5	11
47	Ergonomics and human factors in waste collection: analysis and suggestions for the door-to-door method. IFAC-PapersOnLine, 2018, 51, 838-843.	0.5	25
48	Sustainability in Material Purchasing: A Multi-Objective Economic Order Quantity Model under Carbon Trading. Sustainability, 2018, 10, 4438.	1.6	15
49	A method to choose between carton from rack picking or carton from pallet picking. Computers and Industrial Engineering, 2018, 126, 88-98.	3.4	10
50	Additional effort estimation due to ergonomic conditions in order picking systems. International Journal of Production Research, 2017, 55, 2764-2774.	4.9	25
51	Analysis of economic and ergonomic performance measures of different rack layouts in an order picking warehouse. Computers and Industrial Engineering, 2017, 111, 527-536.	3.4	76
52	Ergo-lot-sizing: An approach to integrate ergonomic and economic objectives in manual materials handling. International Journal of Production Economics, 2017, 185, 230-239.	5.1	28
53	Incorporating human factors into decision support models for production and logistics: current state of research. IFAC-PapersOnLine, 2017, 50, 6900-6905.	0.5	49
54	Preventing ergonomic risks with integrated planning on assembly line balancing and parts feeding. International Journal of Production Research, 2017, 55, 7452-7472.	4.9	66

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55	Editorial: Human factors in industrial and logistic system design. Computers and Industrial Engineering, 2017, 111, 463-466.	3.4	21
56	Reprint of "Ergo-lot-sizing: An approach to integrate ergonomic and economic objectives in manual materials handling". International Journal of Production Economics, 2017, 194, 32-42.	5.1	1
57	A proactive model in sustainable food supply chain: Insight from a case study. International Journal of Production Economics, 2017, 183, 596-606.	5.1	153
58	Picking from pallet and picking from boxes: a time and ergonomic study. IFAC-PapersOnLine, 2017, 50, 6888-6893.	0.5	13
59	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
60	Models for an ergonomic evaluation of order picking from different rack layouts. IFAC-PapersOnLine, 2016, 49, 1715-1720.	0.5	11
61	Including Ergonomics Aspects into Mixed-Model Assembly Line Balancing Problem. Advances in Intelligent Systems and Computing, 2016, , 991-1001.	0.5	9
62	Sustainable Packaging Development for Fresh Food Supply Chains. Packaging Technology and Science, 2016, 29, 25-43.	1.3	39
63	The Integrated Assembly Line Balancing and Parts Feeding Problem with Ergonomics Considerations. IFAC-PapersOnLine, 2016, 49, 191-196.	0.5	32
64	A new bi-objective approach for including ergonomic principles into EOQ model. International Journal of Production Research, 2016, 54, 2610-2627.	4.9	25
65	Human energy expenditure in order picking storage assignment: A bi-objective method. Computers and Industrial Engineering, 2016, 94, 147-157.	3.4	85
66	Systemability: A New Reliability Function for Different Environments. Springer Series in Reliability Engineering, 2016, , 145-193.	0.3	2
67	Ergonomics in assembly line balancing based on energy expenditure: a multi-objective model. International Journal of Production Research, 2016, 54, 824-845.	4.9	112
68	Using Systemability Function for Periodic Replacement Policy in Real Environments. Quality and Reliability Engineering International, 2015, 31, 617-633.	1.4	9
69	A comparative analysis of different paperless picking systems. Industrial Management and Data Systems, 2015, 115, 483-503.	2.2	67
70	Ergo-Lot-Sizing: Considering Ergonomics in Lot-Sizing Decisions. IFAC-PapersOnLine, 2015, 48, 326-331.	0.5	10
71	Haulage sharing approach to achieve sustainability in material purchasing: New method and numerical applications. International Journal of Production Economics, 2015, 164, 308-318.	5.1	32
72	Linking human availability and ergonomics parameters in order-picking systems. IFAC-PapersOnLine, 2015, 48, 345-350.	0.5	8

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73	Order picking system design: the storage assignment and travel distance estimation (SA&TDE) joint method. International Journal of Production Research, 2015, 53, 1077-1093.	4.9	58
74	Modelling the Growing Process of Integrated Healthcare Supply Networks. , 2015, , 377-389.		1
75	Inventory holding costs measurement: a multi-case study. International Journal of Logistics Management, 2014, 25, 109-132.	4.1	52
76	A sustainable EOQ model: Theoretical formulation and applications. International Journal of Production Economics, 2014, 149, 145-153.	5.1	172
77	Innovative real-time system to integrate ergonomic evaluations into warehouse design and management. Computers and Industrial Engineering, 2014, 77, 1-10.	3.4	93
78	A century of evolution from Harris's basic lot size model: Survey and research agenda. International Journal of Production Economics, 2014, 155, 16-38.	5.1	156
79	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
80	Modelling the Growing Process of Integrated Healthcare Supply Networks. International Journal of System Dynamics Applications, 2013, 2, 1-13.	0.3	10
81	Design of an integrated quality assurance strategy in production systems. International Journal of Production Research, 2012, 50, 1682-1701.	4.9	9
82	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
83	Innovative travel time model for dual-shuttle automated storage/retrieval systems. Computers and Industrial Engineering, 2011, 61, 600-607.	3.4	31
84	“Supermarket warehouses” stocking policies optimization in an assembly-to-order environment. International Journal of Advanced Manufacturing Technology, 2010, 50, 775-788.	1.5	51
85	Forecasting of Sporadic Demand Patterns with Seasonality and Trend Components: An Empirical Comparison between Holt-Winters and (S)ARIMA Methods. Mathematical Problems in Engineering, 2010, 2010, 1-14.	0.6	23
86	Age replacement policy in a random environment using systemability. International Journal of Systems Science, 2010, 41, 1383-1397.	3.7	17
87	A Cost Analysis of Systems Subject to Random Field Environments and Reliability. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2010, 40, 429-437.	3.3	24
88	Logistic Game, : learning by doing and knowledge-sharing. Production Planning and Control, 2009, 20, 724-736.	5.8	23
89	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
90	Balancing “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

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91	Design of the optimal feeding policy in an assembly system. International Journal of Production Economics, 2009, 121, 233-254.	5.1	100
92	Systemability function to optimisation reliability in random environment. International Journal of Mathematics in Operational Research, 2009, 1, 397.	0.1	19