

Olga Battaia

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87
papers

2,241
citations

27
h-index

45
g-index

91
ext. papers

2,630
ext. citations

4.3
avg, IF

5.69
L-index

#	Paper	IF	Citations
87	A taxonomy of line balancing problems and their solution approaches. <i>International Journal of Production Economics</i> , 2013 , 142, 259-277	9.3	427
86	Design, management and control of demanufacturing and remanufacturing systems. <i>CIRP Annals - Manufacturing Technology</i> , 2017 , 66, 585-609	4.9	103
85	An exact solution approach for disassembly line balancing problem under uncertainty of the task processing times. <i>International Journal of Production Research</i> , 2015 , 53, 1807-1818	7.8	95
84	A sample average approximation method for disassembly line balancing problem under uncertainty. <i>Computers and Operations Research</i> , 2014 , 51, 111-122	4.6	93
83	Reducing physical ergonomic risks at assembly lines by line balancing and job rotation: A survey. <i>Computers and Industrial Engineering</i> , 2017 , 111, 467-480	6.4	84
82	Use of MCDM techniques in environmentally conscious manufacturing and product recovery: State of the art. <i>Journal of Manufacturing Systems</i> , 2015 , 37, 746-758	9.1	79
81	An improved Lagrangian relaxation-based heuristic for a joint location-inventory problem. <i>Computers and Operations Research</i> , 2015 , 61, 170-178	4.6	68
80	Second order conic approximation for disassembly line design with joint probabilistic constraints. <i>European Journal of Operational Research</i> , 2015 , 247, 957-967	5.6	55
79	Balancing of simple assembly lines under variations of task processing times. <i>Annals of Operations Research</i> , 2012 , 201, 265-286	3.2	51
78	Dealing with uncertainty in disassembly line design. <i>CIRP Annals - Manufacturing Technology</i> , 2014 , 63, 21-24	4.9	47
77	Profit-oriented partial disassembly line design: dealing with hazardous parts and task processing times uncertainty. <i>International Journal of Production Research</i> , 2018 , 56, 7220-7242	7.8	44
76	A MIP approach for balancing transfer line with complex industrial constraints. <i>Computers and Industrial Engineering</i> , 2010 , 58, 393-400	6.4	44
75	Robust balancing of straight assembly lines with interval task times. <i>Journal of the Operational Research Society</i> , 2013 , 64, 1607-1613	2	43
74	Disassembly Line Balancing and Sequencing under Uncertainty. <i>Procedia CIRP</i> , 2014 , 15, 239-244	1.8	42
73	Disassembly line balancing under high variety of end of life states using a joint precedence graph approach. <i>Journal of Manufacturing Systems</i> , 2015 , 37, 638-648	9.1	40
72	Decision support for design of reconfigurable rotary machining systems for family part production. <i>International Journal of Production Research</i> , 2017 , 55, 1368-1385	7.8	38
71	Collection-disassembly problem in reverse supply chain. <i>International Journal of Production Economics</i> , 2017 , 183, 334-344	9.3	38

70	An evaluation of constructive heuristic methods for solving the alternative subgraphs assembly line balancing problem. <i>Journal of Heuristics</i> , 2009 , 15, 109-132	1.9	38
69	A heuristic multi-start decomposition approach for optimal design of serial machining lines. <i>European Journal of Operational Research</i> , 2008 , 189, 902-913	5.6	38
68	Stability measure for a generalized assembly line balancing problem. <i>Discrete Applied Mathematics</i> , 2013 , 161, 377-394	1	37
67	Reduction approaches for a generalized line balancing problem. <i>Computers and Operations Research</i> , 2012 , 39, 2337-2345	4.6	35
66	Comparison of exact and heuristic methods for a transfer line balancing problem. <i>International Journal of Production Economics</i> , 2009 , 120, 276-286	9.3	34
65	Workforce minimization for a mixed-model assembly line in the automotive industry. <i>International Journal of Production Economics</i> , 2015 , 170, 489-500	9.3	32
64	Design for manufacturing and assembly/disassembly: joint design of products and production systems. <i>International Journal of Production Research</i> , 2018 , 56, 7181-7189	7.8	32
63	Lagrangian Relaxation for Stochastic Disassembly Line Balancing Problem. <i>Procedia CIRP</i> , 2014 , 17, 56-60.8	6.8	28
62	Balancing large-scale machining lines with multi-spindle heads using decomposition. <i>International Journal of Production Research</i> , 2006 , 44, 4105-4120	7.8	28
61	A bibliographic review of production line design and balancing under uncertainty. <i>IFAC-PapersOnLine</i> , 2015 , 48, 70-75	0.7	27
60	Re-balancing problem for assembly lines: new mathematical model and exact solution method. <i>Assembly Automation</i> , 2015 , 35, 16-21	2.1	25
59	A decision support system to manage the quality of End-of-Life products in disassembly systems. <i>CIRP Annals - Manufacturing Technology</i> , 2016 , 65, 41-44	4.9	25
58	Metaheuristic approaches for the design of machining lines. <i>International Journal of Advanced Manufacturing Technology</i> , 2011 , 55, 11-22	3.2	22
57	An efficient two-phase iterative heuristic for Collection-Disassembly problem. <i>Computers and Industrial Engineering</i> , 2017 , 110, 505-514	6.4	21
56	An optimisation support for the design of hybrid production lines including assembly and disassembly tasks. <i>International Journal of Production Research</i> , 2018 , 56, 7375-7389	7.8	20
55	An exact optimization approach for a transfer line reconfiguration problem. <i>International Journal of Advanced Manufacturing Technology</i> , 2014 , 72, 717-727	3.2	20
54	A decision support system for design of mass production machining lines composed of stations with rotary or mobile table. <i>Robotics and Computer-Integrated Manufacturing</i> , 2012 , 28, 672-680	9.2	20
53	Chance Constrained Programming Model for Stochastic ProfitOriented Disassembly Line Balancing in the Presence of Hazardous Parts. <i>IFIP Advances in Information and Communication Technology</i> , 2013 , 103-110	0.5	20

52	Minimizing makespan for multi-spindle head machines with a mobile table. <i>Computers and Operations Research</i> , 2009 , 36, 344-357	4.6	20
51	Design, simulation and experimental investigation of a novel reconfigurable assembly fixture for press brakes. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 82, 663-679	3.2	19
50	Optimal cost design of flow lines with reconfigurable machines for batch production. <i>International Journal of Production Research</i> , 2020 , 58, 2937-2952	7.8	19
49	A Stochastic Formulation of the Disassembly Line Balancing Problem. <i>IFIP Advances in Information and Communication Technology</i> , 2013 , 397-404	0.5	17
48	Workforce management in manual assembly lines of large products: a case study. <i>IFAC-PapersOnLine</i> , 2017 , 50, 6906-6911	0.7	16
47	Optimal design of machines processing pipeline parts. <i>International Journal of Advanced Manufacturing Technology</i> , 2012 , 63, 963-973	3.2	16
46	Integrated configurable equipment selection and line balancing for mass production with serial-parallel machining systems. <i>Engineering Optimization</i> , 2014 , 46, 1369-1388	2	15
45	Combinatorial techniques to optimally customize an automated production line with rotary transfer and turrets. <i>IIE Transactions</i> , 2014 , 46, 867-879		15
44	Consideration of workers' differences in production systems modelling and design: State of the art and directions for future research. <i>International Journal of Production Research</i> , 2021 , 59, 3237-3268	7.8	15
43	Sample average approximation for multi-vehicle collection-disassembly problem under uncertainty. <i>International Journal of Production Research</i> , 2019 , 57, 2409-2428	7.8	14
42	Integrated process planning and system configuration for mixed-model machining on rotary transfer machine. <i>International Journal of Computer Integrated Manufacturing</i> , 2017 , 30, 910-925	4.3	12
41	Ageing workforce effects in Dual-Resource Constrained job-shop scheduling. <i>International Journal of Production Economics</i> , 2021 , 237, 108151	9.3	12
40	Maximizing the robustness for simple assembly lines with fixed cycle time and limited number of workstations. <i>Discrete Applied Mathematics</i> , 2016 , 208, 123-136	1	11
39	Human diversity factors in production system modelling and design: state of the art and future researches. <i>IFAC-PapersOnLine</i> , 2019 , 52, 2544-2549	0.7	11
38	Globalisation vs. Slowbalisation: a literature review of analytical models for sourcing decisions in supply chain management. <i>Annual Reviews in Control</i> , 2020 , 49, 277-287	10.3	7
37	Equipment Location in Machining Transfer Lines with Multi-spindle Heads. <i>Mathematical Modelling and Algorithms</i> , 2013 , 12, 117-133		6
36	Integrated Decision Making in Flow Line Balancing. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 831-838		6
35	Optimal Design of Rotary Transfer Machines with Turrets. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 407-412		6

34	Skills management in the optimization of aircraft maintenance processes. <i>IFAC-PapersOnLine</i> , 2017 , 50, 6912-6917	0.7	5
33	Variety-oriented design of rotary production systems. <i>CIRP Annals - Manufacturing Technology</i> , 2015 , 64, 411-414	4.9	5
32	Reconfiguration of Machining Transfer Lines. <i>Studies in Computational Intelligence</i> , 2013 , 339-353	0.8	5
31	An efficient pseudo-polynomial algorithm for finding a lower bound on the makespan for the Resource Constrained Project Scheduling Problem. <i>European Journal of Operational Research</i> , 2019 , 275, 35-44	5.6	5
30	A novel solution approach with ML-based pseudo-cuts for the Flight and Maintenance Planning problem. <i>OR Spectrum</i> , 2021 , 43, 635-664	1.9	5
29	Exploring the opportunities in establishing a closed-loop supply chain under uncertainty. <i>International Journal of Production Research</i> , 2021 , 59, 1606-1625	7.8	5
28	Dealing with disruptions in low-volume manufacturing: a constraint programming approach. <i>Procedia CIRP</i> , 2019 , 81, 1372-1375	1.8	4
27	Flow line balancing problem: A survey 2015 ,		4
26	Integrated ProcurementDisassembly Problem. <i>Lecture Notes in Computer Science</i> , 2014 , 482-490	0.9	4
25	A hybrid optimization algorithm with genetic and bacterial operators for the design of cellular manufacturing systems. <i>IFAC-PapersOnLine</i> , 2019 , 52, 1409-1414	0.7	4
24	Operator assignment problem in aircraft assembly lines: a new planning approach taking into account economic and ergonomic constraints. <i>Procedia CIRP</i> , 2018 , 76, 63-66	1.8	4
23	Design of reverse supply chains under uncertainty: the lexicographic R* criterion for exploring opportunities. <i>International Journal of Production Research</i> , 2021 , 59, 3221-3236	7.8	4
22	Modularization of smart product service: A framework integrating smart product service blueprint and weighted complex network. <i>Computers in Industry</i> , 2020 , 123, 103302	11.6	3
21	Work planning in low-volume assembly lines under ergonomic constraints. <i>Procedia CIRP</i> , 2018 , 72, 786-789	1.8	3
20	A Generalized MILP Formulation for the Period-Aggregated Resource Leveling Problem with Variable Job Duration. <i>Algorithms</i> , 2020 , 13, 6	1.8	2
19	Parallel Machining of Multiple Parts on Rotary Transfer Machines with Turrets. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 1477-1482		2
18	An Exact Method for the Assembly Line Re-balancing Problem. <i>IFIP Advances in Information and Communication Technology</i> , 2013 , 159-166	0.5	2
17	A distributive approach for position control of clamps in a reconfigurable assembly fixture. <i>International Journal of Automation and Control</i> , 2020 , 14, 34	1.8	2

16	Heuristics for Batch Machining at Reconfigurable Rotary Transfer Machines. <i>IFAC-PapersOnLine</i> , 2016 , 49, 491-496	0.7	2
15	Lexicographic R* Criterion For Decision Making Under Uncertainty in Reverse Logistics. <i>IFAC-PapersOnLine</i> , 2019 , 52, 499-504	0.7	2
14	Long-term production planning problem: scheduling, makespan estimation and bottleneck analysis.. <i>IFAC-PapersOnLine</i> , 2017 , 50, 7970-7974	0.7	1
13	Reverse supply chains: A source of opportunities and challenges. <i>Journal of Manufacturing Systems</i> , 2015 , 37, 587-588	9.1	1
12	Managing disruptions in aircraft assembly lines with staircase criteria. <i>International Journal of Production Research</i> ,1-17	7.8	1
11	Decision Under Ignorance: A Comparison of Existing Criteria. <i>Communications in Computer and Information Science</i> , 2020 , 158-171	0.3	1
10	A multi-vendor multi-buyer integrated production-inventory model with synchronised unequal-sized batch delivery. <i>International Journal of Production Research</i> ,1-23	7.8	1
9	MIP-Based Heuristics for a Robust Transfer Lines Balancing Problem. <i>Lecture Notes in Computer Science</i> , 2021 , 123-135	0.9	0
8	Heuristic approaches for scheduling manufacturing tasks while taking into account accumulated human fatigue. <i>IFAC-PapersOnLine</i> , 2019 , 52, 963-968	0.7	0
7	Design of reconfigurable machining lines: A novel comprehensive optimisation method. <i>CIRP Annals - Manufacturing Technology</i> , 2021 , 70, 393-398	4.9	0
6	Mathematical Model for Processing Multiple Parts on Multi-positional Reconfigurable Machines with Turrets. <i>IFIP Advances in Information and Communication Technology</i> , 2021 , 563-573	0.5	0
5	Assembly Line Balancing with Inexperienced and Trainer Workers. <i>IFIP Advances in Information and Communication Technology</i> , 2021 , 497-506	0.5	0
4	An Intelligent PLM System for Machining Environment. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 1065-1070		
3	A mathematical model for a reconfiguration problem of transfer machining lines. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 438-443		
2	A new algorithm for solving uncapacitated transportation problem with interval-defined demands and suppliers capacities. <i>Journal of Intelligent and Fuzzy Systems</i> , 2021 , 41, 625-637	1.6	
1	Benders decomposition for a period-aggregated resource leveling problem with variable job duration. <i>Computers and Operations Research</i> , 2021 , 132, 105258	4.6	