Olga BattaÃ¯a

List of Publications by Year
in descending order

89	3,067	147786	168376
papers	citations	31 h-index	53 g-index

91	91	91	1483
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Managing disruptions in aircraft assembly lines with staircase criteria. International Journal of Production Research, 2023, 61, 632-648.	7.5	8
2	A multi-vendor multi-buyer integrated production-inventory model with synchronised unequal-sized batch delivery. International Journal of Production Research, 2023, 61, 462-484.	7.5	7
3	A novel solution approach with ML-based pseudo-cuts for the Flight and Maintenance Planning problem. OR Spectrum, 2021, 43, 635-664.	3.4	9
4	Exploring the opportunities in establishing a closed-loop supply chain under uncertainty. International Journal of Production Research, 2021, 59, 1606-1625.	7.5	17
5	Scheduling and Rescheduling Operations Using Decision Support Systems: Insights From Emotional Influences on Decision-Making. Frontiers in Neuroergonomics, 2021, 2, .	1.1	3
6	Consideration of workersâ€™ differences in production systems modelling and design: State of the art and directions for future research. International Journal of Production Research, 2021, 59, 3237-3268.	7.5	40
7	Ageing workforce effects in Dual-Resource Constrained job-shop scheduling. International Journal of Production Economics, 2021, 237, 108151.	8.9	32
8	A new algorithm for solving uncapacitated transportation problem with interval-defined demands and suppliers capacities. Journal of Intelligent and Fuzzy Systems, 2021, 41, 625-637.	1.4	1
9	Benders decomposition for a period-aggregated resource leveling problem with variable job duration. Computers and Operations Research, 2021, 132, 105258.	4.0	4
10	Design of reconfigurable machining lines: A novel comprehensive optimisation method. CIRP Annals - Manufacturing Technology, 2021, 70, 393-398.	3.6	6
11	Design of reverse supply chains under uncertainty: the lexicographic R_* criterion for exploring opportunities. International Journal of Production Research, 2021, 59, 3221-3236.	7.5	7
12	Mathematical Model for Processing Multiple Parts on Multi-positional Reconfigurable Machines with Turrets. IFIP Advances in Information and Communication Technology, 2021, , 563-573.	0.7	2
13	Assembly Line Balancing with Inexperienced and Trainer Workers. IFIP Advances in Information and Communication Technology, 2021, , 497-506.	0.7	3
14	MIP-Based Heuristics for a Robust Transfer Lines Balancing Problem. Lecture Notes in Computer Science, 2021, , 123-135.	1.3	3
15	A distributive approach for position control of clamps in a reconfigurable assembly fixture. International Journal of Automation and Control, 2020, 14, 34.	0.5	2
16	Modularization of smart product service: A framework integrating smart product service blueprint and weighted complex network. Computers in Industry, 2020, 123, 103302.	9.9	14
17	Special issue on sustainability with innovation for manufacturing and supply chain management. International Journal of Production Research, 2020, 58, 7311-7313.	7.5	2
18	A Generalized MILP Formulation for the Period-Aggregated Resource Leveling Problem with Variable Job Duration. Algorithms, 2020, 13, 6.	2.1	6

#	ARTICLE	IF	CITATIONS
19	Optimal cost design of flow lines with reconfigurable machines for batch production. International Journal of Production Research, 2020, 58, 2937-2952.	7.5	35
20	Decision Under Ignorance: A Comparison of Existing Criteria. Communications in Computer and Information Science, 2020, , 158-171.	0.5	2
21	Globalisation vs. Slowbalisation: a literature review of analytical models for sourcing decisions in supply chain management. Annual Reviews in Control, 2020, 49, 277-287.	7.9	16
22	Dealing with disruptions in low-volume manufacturing: a constraint programming approach. Procedia CIRP, 2019, 81, 1372-1375.	1.9	8
23	Lexicographic R* Criterion For Decision Making Under Uncertainty in Reverse Logistics. IFAC-PapersOnLine, 2019, 52, 499-504.	0.9	3
24	Heuristic approaches for scheduling manufacturing tasks while taking into account accumulated human fatigue. IFAC-PapersOnLine, 2019, 52, 963-968.	0.9	4
25	A hybrid optimization algorithm with genetic and bacterial operators for the design of cellular manufacturing systems. IFAC-PapersOnLine, 2019, 52, 1409-1414.	0.9	7
26	Human diversity factors in production system modelling and design: state of the art and future researches. IFAC-PapersOnLine, 2019, 52, 2544-2549.	0.9	14
27	Sample average approximation for multi-vehicle collectionâ€“disassembly problem under uncertainty. International Journal of Production Research, 2019, 57, 2409-2428.	7.5	27
28	An efficient pseudo-polynomial algorithm for finding a lower bound on the makespan for the Resource Constrained Project Scheduling Problem. European Journal of Operational Research, 2019, 275, 35-44.	5.7	13
29	An optimisation support for the design of hybrid production lines including assembly and disassembly tasks. International Journal of Production Research, 2018, 56, 7375-7389.	7.5	33
30	Profit-oriented partial disassembly line design: dealing with hazardous parts and task processing times uncertainty. International Journal of Production Research, 2018, 56, 7220-7242.	7.5	69
31	Design for manufacturing and assembly/disassembly: joint design of products and production systems. International Journal of Production Research, 2018, 56, 7181-7189.	7.5	48
32	Operator assignment problem in aircraft assembly lines: a new planning approach taking into account economic and ergonomic constraints. Procedia CIRP, 2018, 76, 63-66.	1.9	13
33	Work planning in low-volume assembly lines under ergonomic constraints. Procedia CIRP, 2018, 72, 786-789.	1.9	6
34	Reducing physical ergonomic risks at assembly lines by line balancing and job rotation: A survey. Computers and Industrial Engineering, 2017, 111, 467-480.	6.3	124
35	Skills management in the optimization of aircraft maintenance processes. IFAC-PapersOnLine, 2017, 50, 6912-6917.	0.9	7
36	Design, management and control of demanufacturing and remanufacturing systems. CIRP Annals - Manufacturing Technology, 2017, 66, 585-609.	3.6	156

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37	An efficient two-phase iterative heuristic for Collection-Disassembly problem. Computers and Industrial Engineering, 2017, 110, 505-514.	6.3	28
38	Integrated process planning and system configuration for mixed-model machining on rotary transfer machine. International Journal of Computer Integrated Manufacturing, 2017, 30, 910-925.	4.6	16
39	Decision support for design of reconfigurable rotary machining systems for family part production. International Journal of Production Research, 2017, 55, 1368-1385.	7.5	53
40	Collection-disassembly problem in reverse supply chain. International Journal of Production Economics, 2017, 183, 334-344.	8.9	48
41	Workforce management in manual assembly lines of large products: a case study. IFAC-PapersOnLine, 2017, 50, 6906-6911.	0.9	21
42	Long-term production planning problem: scheduling, makespan estimation and bottleneck analysis.. IFAC-PapersOnLine, 2017, 50, 7970-7974.	0.9	1
43	Maximizing the robustness for simple assembly lines with fixed cycle time and limited number of workstations. Discrete Applied Mathematics, 2016, 208, 123-136.	0.9	20
44	Heuristics for Batch Machining at Reconfigurable Rotary Transfer Machines. IFAC-PapersOnLine, 2016, 49, 491-496.	0.9	2
45	A decision support system to manage the quality of End-of-Life products in disassembly systems. CIRP Annals - Manufacturing Technology, 2016, 65, 41-44.	3.6	41
46	Design, simulation and experimental investigation of a novel reconfigurable assembly fixture for press brakes. International Journal of Advanced Manufacturing Technology, 2016, 82, 663-679.	3.0	21
47	Flow line balancing problem: A survey. , 2015, , .		6
48	Reverse supply chains: A source of opportunities and challenges. Journal of Manufacturing Systems, 2015, 37, 587-588.	13.9	2
49	Re-balancing problem for assembly lines: new mathematical model and exact solution method. Assembly Automation, 2015, 35, 16-21.	1.7	31
50	Workforce minimization for a mixed-model assembly line in the automotive industry. International Journal of Production Economics, 2015, 170, 489-500.	8.9	44
51	Disassembly line balancing under high variety of end of life states using a joint precedence graph approach. Journal of Manufacturing Systems, 2015, 37, 638-648.	13.9	60
52	Use of MCDM techniques in environmentally conscious manufacturing and product recovery: State of the art. Journal of Manufacturing Systems, 2015, 37, 746-758.	13.9	96
53	Variety-oriented design of rotary production systems. CIRP Annals - Manufacturing Technology, 2015, 64, 411-414.	3.6	8
54	Second order conic approximation for disassembly line design with joint probabilistic constraints. European Journal of Operational Research, 2015, 247, 957-967.	5.7	70

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55	A bibliographic review of production line design and balancing under uncertainty. IFAC-PapersOnLine, 2015, 48, 70-75.	0.9	35
56	An exact solution approach for disassembly line balancing problem under uncertainty of the task processing times. International Journal of Production Research, 2015, 53, 1807-1818.	7.5	136
57	An improved Lagrangian relaxation-based heuristic for a joint location-inventory problem. Computers and Operations Research, 2015, 61, 170-178.	4.0	85
58	Combinatorial techniques to optimally customize an automated production line with rotary transfer and turrets. IIE Transactions, 2014, 46, 867-879.	2.1	18
59	An exact optimization approach for a transfer line reconfiguration problem. International Journal of Advanced Manufacturing Technology, 2014, 72, 717-727.	3.0	25
60	Lagrangian Relaxation for Stochastic Disassembly Line Balancing Problem. Procedia CIRP, 2014, 17, 56-60.	1.9	34
61	Integrated configurable equipment selection and line balancing for mass production with serialâ€“parallel machining systems. Engineering Optimization, 2014, 46, 1369-1388.	2.6	20
62	Disassembly Line Balancing and Sequencing under Uncertainty. Procedia CIRP, 2014, 15, 239-244.	1.9	52
63	Dealing with uncertainty in disassembly line design. CIRP Annals - Manufacturing Technology, 2014, 63, 21-24.	3.6	60
64	A sample average approximation method for disassembly line balancing problem under uncertainty. Computers and Operations Research, 2014, 51, 111-122.	4.0	125
65	Integrated Procurementâ€“Disassembly Problem. Lecture Notes in Computer Science, 2014, , 482-490.	1.3	5
66	Equipment Location in Machining Transfer Lines with Multi-spindle Heads. Mathematical Modelling and Algorithms, 2013, 12, 117-133.	0.5	8
67	A Stochastic Formulation of the Disassembly Line Balancing Problem. IFIP Advances in Information and Communication Technology, 2013, , 397-404.	0.7	18
68	A taxonomy of line balancing problems and their solutionapproaches. International Journal of Production Economics, 2013, 142, 259-277.	8.9	531
69	Stability measure for a generalized assembly line balancing problem. Discrete Applied Mathematics, 2013, 161, 377-394.	0.9	45
70	Robust balancing of straight assembly lines with interval task times. Journal of the Operational Research Society, 2013, 64, 1607-1613.	3.4	53
71	Chance Constrained Programming Model for Stochastic Profitâ€“Oriented Disassembly Line Balancing in the Presence of Hazardous Parts. IFIP Advances in Information and Communication Technology, 2013, , 103-110.	0.7	26
72	Parallel Machining of Multiple Parts on Rotary Transfer Machines with Turrets. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 1477-1482.	0.4	2

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73	Integrated Decision Making in Flow Line Balancing. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 831-838.	0.4	6
74	Reconfiguration of Machining Transfer Lines. Studies in Computational Intelligence, 2013, , 339-353.	0.9	5
75	An Exact Method for the Assembly Line Re-balancing Problem. IFIP Advances in Information and Communication Technology, 2013, , 159-166.	0.7	2
76	Optimal Design of Rotary Transfer Machines with Turrets. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 407-412.	0.4	6
77	An Intelligent PLM System for Machining Environment. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1065-1070.	0.4	0
78	A mathematical model for a reconfiguration problem of transfer machining lines. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 438-443.	0.4	0
79	Balancing of simple assembly lines under variations of task processing times. Annals of Operations Research, 2012, 201, 265-286.	4.1	64
80	Optimal design of machines processing pipeline parts. International Journal of Advanced Manufacturing Technology, 2012, 63, 963-973.	3.0	18
81	Reduction approaches for a generalized line balancing problem. Computers and Operations Research, 2012, 39, 2337-2345.	4.0	39
82	A decision support system for design of mass production machining lines composed of stations with rotary or mobile table. Robotics and Computer-Integrated Manufacturing, 2012, 28, 672-680.	9.9	25
83	Metaheuristic approaches for the design of machining lines. International Journal of Advanced Manufacturing Technology, 2011, 55, 11-22.	3.0	24
84	A MIP approach for balancing transfer line with complex industrial constraints. Computers and Industrial Engineering, 2010, 58, 393-400.	6.3	51
85	An evaluation of constructive heuristic methods for solving the alternative subgraphs assembly line balancing problem. Journal of Heuristics, 2009, 15, 109-132.	1.4	48
86	Comparison of exact and heuristic methods for a transfer line balancing problem. International Journal of Production Economics, 2009, 120, 276-286.	8.9	41
87	Minimizing makespan for multi-spindle head machines with a mobile table. Computers and Operations Research, 2009, 36, 344-357.	4.0	20
88	A heuristic multi-start decomposition approach for optimal design of serial machining lines. European Journal of Operational Research, 2008, 189, 902-913.	5.7	42
89	Balancing large-scale machining lines with multi-spindle heads using decomposition. International Journal of Production Research, 2006, 44, 4105-4120.	7.5	30