

# Rasaratnam Logendran

## List of Publications by Year in descending order

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56  
papers

1,557  
citations

236925

25  
h-index

302126

39  
g-index

56  
all docs

56  
docs citations

56  
times ranked

818  
citing authors

#	ARTICLE	IF	CITATIONS
1	Scheduling unrelated parallel machines with sequence-dependent setups. Computers and Operations Research, 2007, 34, 3420-3438.	4.0	97
2	Impact of sequence of operations and layout of cells in cellular manufacturing. International Journal of Production Research, 1991, 29, 375-390.	7.5	86
3	Sequence-dependent group scheduling problems in flexible flow shops. International Journal of Production Economics, 2006, 102, 66-86.	8.9	86
4	A workload based model for minimizing total intercell and intracell moves in cellular manufacturing. International Journal of Production Research, 1990, 28, 913-925.	7.5	82
5	An Enhanced tabu search algorithm to minimize a bi-criteria objective in batching and scheduling problems on unrelated-parallel machines with desired lower bounds on batch sizes. Computers and Operations Research, 2017, 77, 154-176.	4.0	82
6	Total flow time minimization in a flowshop sequence-dependent group scheduling problem. Computers and Operations Research, 2010, 37, 199-212.	4.0	79
7	Group scheduling in flexible flow shops. International Journal of Production Economics, 2005, 96, 143-155.	8.9	70
8	Minimizing the makespan of a group scheduling problem: a new heuristic. International Journal of Production Economics, 1991, 22, 217-230.	8.9	61
9	Hybrid flow shop batching and scheduling with a bi-criteria objective. International Journal of Production Economics, 2016, 179, 239-258.	8.9	56
10	Unrelated parallel machine scheduling with job splitting. IIE Transactions, 2004, 36, 359-372.	2.1	55
11	Two-machine group scheduling problems in discrete parts manufacturing with sequence-dependent setups. Computers and Operations Research, 2006, 33, 158-180.	4.0	54
12	An efficient tabu search algorithm for flexible flow shop sequence-dependent group scheduling problems. International Journal of Production Research, 2012, 50, 4237-4254.	7.5	53
13	Two-machine group scheduling problem with blocking and anticipatory setups. European Journal of Operational Research, 1993, 69, 467-481.	5.7	44
14	A comparison of two stage-based hybrid algorithms for a batch scheduling problem in hybrid flow shop with learning effect. International Journal of Production Economics, 2018, 195, 227-248.	8.9	44
15	Combined heuristics for bi-level group scheduling problems. International Journal of Production Economics, 1995, 38, 133-145.	8.9	40
16	Makespan minimization of a flowshop sequence-dependent group scheduling problem. International Journal of Advanced Manufacturing Technology, 2011, 56, 699-710.	3.0	34
17	Periodic product distribution from multi-depots under limited supplies. IIE Transactions, 2006, 38, 1009-1026.	2.1	32
18	Group-scheduling problems in electronics manufacturing. Journal of Scheduling, 2010, 13, 177-202.	1.9	32

#	ARTICLE	IF	CITATIONS
19	Sequence-dependent group scheduling problem on unrelated-parallel machines. Expert Systems With Applications, 2012, 39, 9021-9030.	7.6	32
20	Bi-criteria group scheduling in hybrid flowshops. International Journal of Production Economics, 2013, 145, 599-612.	8.9	31
21	Integrated assembly line balancing with resource restrictions. International Journal of Production Research, 2009, 47, 5525-5541.	7.5	30
22	A model for duplicating bottleneck machines in the presence of budgetary limitations in cellular manufacturing. International Journal of Production Research, 1992, 30, 683-694.	7.5	28
23	Non-permutation flowshop scheduling in a supply chain with sequence-dependent setup times. International Journal of Production Economics, 2012, 135, 953-963.	8.9	28
24	Analysis of cellular and functional manufacturing systems in the presence of machine breakdown. International Journal of Production Economics, 1997, 53, 239-256.	8.9	26
25	Non-permutation flowshop scheduling with dual resources. Expert Systems With Applications, 2013, 40, 5061-5076.	7.6	26
26	Effective two-phase $p$ -median approach for the balanced cell formation in the design of cellular manufacturing system. International Journal of Production Research, 2015, 53, 2730-2750.	7.5	26
27	A bi-objective batch processing problem with dual-resources on unrelated-parallel machines. Applied Soft Computing Journal, 2017, 61, 174-192.	7.2	26
28	A comparison of local search algorithms with population-based algorithms in hybrid flow shop scheduling problems with realistic characteristics. International Journal of Advanced Manufacturing Technology, 2016, 83, 1135-1151.	3.0	23
29	Carryover sequence-dependent group scheduling with the integration of internal and external setup times. European Journal of Operational Research, 2013, 224, 8-22.	5.7	19
30	A biary integer programming approach for simultaneous machine-part grouping in cellular manufacturing systems. Computers and Industrial Engineering, 1993, 24, 329-336.	6.3	18
31	A methodology for simultaneously dealing with machine duplication and part subcontracting in cellular manufacturing systems. Computers and Operations Research, 1997, 24, 97-116.	4.0	15
32	A mathematical programming-based scheduling framework for multitasking environments. European Journal of Operational Research, 2007, 176, 193-209.	5.7	15
33	Spatial scheduling for shape-changing mega-blocks in a shipbuilding company. International Journal of Production Research, 2011, 49, 7135-7149.	7.5	14
34	Effect of the identification of key machines in the cell formation problem of cellular manufacturing systems. Computers and Industrial Engineering, 1991, 20, 439-449.	6.3	13
35	Bicriteria supply chain scheduling on unrelated-parallel machines. Journal of the Chinese Institute of Industrial Engineers, 2011, 28, 91-101.	0.5	13
36	A single machine carryover sequence-dependent group scheduling in PCB manufacturing. Computers and Operations Research, 2013, 40, 236-247.	4.0	13

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37	Methodology for converting a functional manufacturing system into a cellular manufacturing system. International Journal of Production Economics, 1993, 29, 27-41.	8.9	11
38	Group scheduling problem: Key to flexible manufacturing systems. Computers and Industrial Engineering, 1992, 23, 113-116.	6.3	10
39	Lower bound development in a flow shop electronic assembly problem with carryover sequence-dependent setup time. Computers and Industrial Engineering, 2018, 122, 149-160.	6.3	10
40	A methodology for quantifying the effects of product development on cost and time. IIE Transactions, 1999, 31, 365-378.	2.1	9
41	Minimizing the mean flow time in a two-machine group-scheduling problem with carryover sequence dependency. Robotics and Computer-Integrated Manufacturing, 2003, 19, 21-33.	9.9	9
42	Program planning and development of a national university teleconference network using simulation. , 1986, , .		5
43	A machine-part based grouping algorithm in cellular manufacturing. Computers and Industrial Engineering, 1990, 19, 57-61.	6.3	5
44	Manufacturing cell formation in the presence of flexible cell locations and material transporters. Computers and Industrial Engineering, 1997, 33, 545-548.	6.3	3
45	Skid scheduling algorithm for a shipbuilding company. International Journal of Production Research, 2012, 50, 2774-2784.	7.5	3
46	A tight lower bound for makespan minimization sequence dependent flowshop group scheduling problems. , 2009, , .		2
47	A Simplified Branch-and-Price Mechanism for a Three-Machine Dynamic PCB Assembly. Applied Mechanics and Materials, 0, 598, 398-403.	0.2	2
48	A comparison of methodologies for efficient part-machine cluster formation. Computers and Industrial Engineering, 1991, 21, 285-289.	6.3	1
49	Effect of machining time in the duplication process of machine cells formation. Computers and Industrial Engineering, 1993, 25, 29-32.	6.3	1
50	A Methodology for Transferring Research Experiences in Design and Scheduling of Cellular Manufacturing Systems. Journal of Engineering Education, 1998, 87, 507-509.	3.0	1
51	A methodology for quantifying the effects of product development on cost and time. IIE Transactions, 1999, 31, 365-378.	2.1	1
52	An efficient model-based branch-and-price algorithm for unrelated-parallel machine batching and scheduling problems. Journal of Scheduling, 2022, 25, 589-621.	1.9	1
53	Microcomputer implementation of a program scheduling network using simulation. International Journal of Systems Science, 1991, 22, 1219-1228.	5.5	0
54	Simultaneous machine-part grouping approach in manufacturing cells. Computers and Industrial Engineering, 1992, 23, 77-80.	6.3	0

#	ARTICLE	IF	CITATIONS
55	Scheduling jobs in flowshops with the introduction of additional machines in the future. Expert Systems With Applications, 2012, 39, 11219-11227.	7.6	0
56	PCB Assembly in a Multi-Machine Flowshop with Dynamic Board Release Times. Lecture Notes in Mechanical Engineering, 2013, , 1063-1076.	0.4	0