Dvir Shabtay

List of Publications by Year
in descending order

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80 papers	2,042 citations	318942 23 h-index	312153 41 g-index
82 all docs	82 docs citations	82 times ranked	783 citing authors

#	Article	IF	Citations
1	Single-machine scheduling with machine unavailability periods and resource dependent processing times. European Journal of Operational Research, 2022, 296, 423-439.	3.5	10
2	SETH-based Lower Bounds for Subset Sum and Bicriteria Path. ACM Transactions on Algorithms, 2022, 18, 1-22.	0.9	5
3	Faster Minimization of Tardy Processing Time on a Single Machine. Algorithmica, 2022, 84, 1341-1356.	1.0	2
4	Single machine scheduling with common assignable due date/due window to minimize total weighted early and late work. European Journal of Operational Research, 2022, 303, 66-77.	3.5	13
5	Scheduling Lower Bounds via AND Subset Sum. Journal of Computer and System Sciences, 2022, , .	0.9	3
6	Single-machine scheduling with total late work and job rejection. Computers and Industrial Engineering, 2022, 169, 108168.	3.4	4
7	Multi-scenario scheduling to maximise the weighted number of just-in-time jobs. Journal of the Operational Research Society, 2021, 72, 1762-1779.	2.1	10
8	New algorithms for minimizing the weighted number of tardy jobs on a single machine. Annals of Operations Research, 2021, 298, 271-287.	2.6	17
9	Heuristic algorithms for solving a set of NP-hard single-machine scheduling problems with resource-dependent processing times. Computers and Industrial Engineering, 2021, 153, 107024.	3.4	12
10	Minimizing the total tardiness and job rejection cost in a proportionate flow shop with generalized due dates. Journal of Scheduling, 2021, 24, 553-567.	1.3	9
11	Minimizing total late work on a single machine with generalized due-dates. European Journal of Operational Research, 2021, 293, 837-846.	3.5	28
12	Scheduling in multi-scenario environment with an agreeable condition on job processing times. Annals of Operations Research, 2021, 307, 153-173.	2.6	2
13	Parameterized Multi-Scenario Single-Machine Scheduling Problems. Algorithmica, 2020, 82, 2644-2667.	1.0	10
14	On the parameterized tractability of single machine scheduling with rejection. European Journal of Operational Research, 2019, 273, 67-73.	3.5	24
15	Scheduling two agents on a single machine: A parameterized analysis of NP-hard problems. Omega, 2019, 83, 275-286.	3.6	17
16	On the parameterized tractability of the just-in-time flow-shop scheduling problem. Journal of Scheduling, 2019, 22, 663-676.	1.3	9
17	Bi-criteria path problem with minimum length and maximum survival probability. OR Spectrum, 2019, 41, 469-489.	2.1	7
18	SETH-Based Lower Bounds for Subset Sum and Bicriteria Path. , 2019, , 41-57.		12

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19	Single machine scheduling with controllable processing times and an unavailability period to minimize the makespan. International Journal of Production Economics, 2018, 198, 191-200.	5.1	26
20	Single machine scheduling to minimise resource consumption cost with a bound on scheduling plus due date assignment penalties. International Journal of Production Research, 2018, 56, 3080-3096.	4.9	12
21	The multi-scenario scheduling problem to maximize the weighted number of just-in-time jobs. , 2018, , .		0
22	The resource dependent assignment problem with a convex agent cost function. European Journal of Operational Research, 2017, 261, 486-502.	3.5	6
23	Approximation algorithms for the workload partition problem and applications to scheduling with variable processing times. European Journal of Operational Research, 2017, 256, 384-391.	3.5	5
24	Optimal coordination of resource allocation, due date assignment and scheduling decisions. Omega, 2016, 65, 41-54.	3.6	16
25	Single machine scheduling with two competing agents, arbitrary release dates and unit processing times. Annals of Operations Research, 2016, 238, 145-178.	2.6	9
26	Proportionate flow-shop scheduling with rejection. Journal of the Operational Research Society, 2016, 67, 752-769.	2.1	20
27	Optimal robot scheduling to minimize the makespan in a three-machine flow-shop environment with job-independent processing times. Applied Mathematical Modelling, 2016, 40, 4231-4247.	2.2	10
28	Optimal restricted due date assignment in scheduling. European Journal of Operational Research, 2016, 252, 79-89.	3.5	24
29	Scheduling on identical parallel machines with controllable processing times to minimize the makespan. , 2016, , .		0
30	Single-machine two-agent scheduling involving a just-in-time criterion. International Journal of Production Research, 2015, 53, 2590-2604.	4.9	14
31	Single machine scheduling with two competing agents and equal job processing times. European Journal of Operational Research, 2015, 244, 86-99.	3.5	41
32	Multipurpose machine scheduling with rejection and identical job processing times. Journal of Scheduling, 2015, 18, 75-88.	1.3	9
33	A pseudo-polynomial time algorithm for solving the resource dependent assignment problem. Discrete Applied Mathematics, 2015, 182, 115-121.	0.5	2
34	A combined robot selection and scheduling problem for flow-shops with no-wait restrictions. Omega, 2014, 43, 96-107.	3.6	20
35	The single machine serial batch scheduling problem with rejection to minimize total completion time and total rejection cost. European Journal of Operational Research, 2014, 233, 64-74.	3.5	38
36	Online scheduling of two job types on a set of multipurpose machines. International Journal of Production Economics, 2014, 150, 155-162.	5.1	11

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37	On the optimality of the TLS algorithm for solving the online-list scheduling problem with two job types on a set of multipurpose machines. Journal of Combinatorial Optimization, 2013, 26, 198-222.	0.8	13
38	Maximizing the weighted number of just-in-time jobs on a single machine with position-dependent processing times. Journal of Scheduling, 2013, 16, 519-527.	1.3	9
39	A survey on offline scheduling with rejection. Journal of Scheduling, 2013, 16, 3-28.	1.3	202
40	A note: Minmax due-date assignment problem with lead-time cost. Computers and Operations Research, 2013, 40, 2161-2164.	2.4	9
41	An asymptotically optimal online algorithm to minimize the total completion time on two multipurpose machines with unit processing times. Discrete Optimization, 2012, 9, 241-248.	0.6	6
42	Online scheduling of two job types on a set of multipurpose machines with unit processing times. Computers and Operations Research, 2012, 39, 405-412.	2.4	16
43	A bicriteria approach to scheduling a single machine with job rejection and positional penalties. Journal of Combinatorial Optimization, 2012, 23, 395-424.	0.8	38
44	Two-machine flow-shop scheduling with rejection. Computers and Operations Research, 2012, 39, 1087-1096.	2.4	32
45	A bicriteria approach to maximize the weighted number of just-in-time jobs and to minimize the total resource consumption cost in a two-machine flow-shop scheduling system. International Journal of Production Economics, 2012, 136, 67-74.	5.1	24
46	The just-in-time scheduling problem in a flow-shop scheduling system. European Journal of Operational Research, 2012, 216, 521-532.	3.5	42
47	Maximizing the weighted number of just-in-time jobs inÂseveral two-machine scheduling systems. Journal of Scheduling, 2012, 15, 39-47.	1.3	22
48	On the asymptotic behavior of subtour-patching heuristics in solving the TSP on permuted Monge matrices. Journal of Heuristics, 2011, 17, 61-96.	1.1	3
49	Scheduling unit length jobs on parallel machines with lookahead information. Journal of Scheduling, 2011, 14, 335-350.	1.3	26
50	A bicriteria approach to minimize the total weighted number ofÂtardy jobs with convex controllable processing times andÂassignable due dates. Journal of Scheduling, 2011, 14, 455-469.	1.3	22
51	Complexity analysis of an assignment problem with controllable assignment costs and its applications in scheduling. Discrete Applied Mathematics, 2011, 159, 1264-1278.	0.5	8
52	Just-in-time scheduling with controllable processing times on parallel machines. Journal of Combinatorial Optimization, 2010, 19, 347-368.	0.8	23
53	Scheduling and due date assignment to minimize earliness, tardiness, holding, due date assignment and batch delivery costs. International Journal of Production Economics, 2010, 123, 235-242.	5.1	50
54	Optimal due date assignment and resource allocation in a group technology scheduling environment. Computers and Operations Research, 2010, 37, 2218-2228.	2.4	39

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55	Bicriteria problems to minimize maximum tardiness and due date assignment cost in various scheduling environments. Discrete Applied Mathematics, 2010, 158, 1090-1103.	0.5	13
56	A unified approach for scheduling with convex resource consumption functions using positional penalties. European Journal of Operational Research, 2010, 206, 301-312.	3.5	36
57	A bicriteria approach to minimize number of tardy jobs and resource consumption in scheduling a single machine. International Journal of Production Economics, 2009, 119, 298-307.	5.1	11
58	Optimal delivery time quotation to minimize total tardiness penalties with controllable processing times. IIE Transactions, 2009, 42, 221-231.	2.1	17
59	Optimal due date assignment in multi-machine scheduling environments. Journal of Scheduling, 2008, 11, 217-228.	1.3	20
60	The single-machine earliness-tardiness scheduling problem with due date assignment and resource-dependent processing times. Annals of Operations Research, 2008, 159, 25-40.	2.6	63
61	Due date assignments and scheduling a single machine with a general earliness/tardiness cost function. Computers and Operations Research, 2008, 35, 1539-1545.	2.4	31
62	MINIMIZING THE SUM OF COMPLETION TIMES WITH RESOURCE DEPENDANT TIMES. AIP Conference Proceedings, 2008, , .	0.3	0
63	Optimal Due Date Assignment and Resource Allocation to Minimize the Weighted Number of Tardy Jobs on a Single Machine. Manufacturing and Service Operations Management, 2007, 9, 332-350.	2.3	54
64	The no-wait two-machine flow shop scheduling problem with convex resource-dependent processing times. IIE Transactions, 2007, 39, 539-557.	2.1	27
65	A survey of scheduling with controllable processing times. Discrete Applied Mathematics, 2007, 155, 1643-1666.	0.5	323
66	The efficiency range of economical cutting conditions for a multistage transfer machine under a failure replacement strategy. International Journal of Advanced Manufacturing Technology, 2007, 34, 448-456.	1.5	0
67	Single machine batch scheduling to minimize total completion time and resource consumption costs. Journal of Scheduling, 2007, 10, 255-261.	1.3	21
68	A bicriteria approach to minimize maximal lateness and resource consumption for scheduling a single machine. Journal of Scheduling, 2007, 10, 341-352.	1.3	21
69	A bicriterion approach to time/cost trade-offs in scheduling with convex resource-dependent job processing times and release dates. Computers and Operations Research, 2006, 33, 3015-3033.	2.4	31
70	Parallel machine scheduling with a convex resource consumption function. European Journal of Operational Research, 2006, 173, 92-107.	3.5	50
71	Two due date assignment problems in scheduling a single machine. Operations Research Letters, 2006, 34, 683-691.	0.5	52
72	Minimizing the makespan in open-shop scheduling problems with a convex resource consumption function. Naval Research Logistics, 2006, 53, 204-216.	1.4	12

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73	Single and two-resource allocation algorithms for minimizing the maximal lateness in a single machine. Computers and Operations Research, 2004, 31, 1303-1315.	2.4	52
74	Convex resource allocation for minimizing the makespan in a single machine with job release dates. Computers and Operations Research, 2004, 31, 1481-1489.	2.4	32
75	Minimizing the total weighted flow time in a single machine with controllable processing times. Computers and Operations Research, 2004, 31, 2279-2289.	2.4	71
76	The efficiency range of economical cutting conditions and tool replacement under the age replacement strategy. International Journal of Production Research, 2003, 41, 2563-2580.	4.9	5
77	Optimization of the machining economics problem for a multistage transfer machine under failure, opportunistic and integrated replacement strategies. International Journal of Production Research, 2003, 41, 2229-2247.	4.9	28
78	Optimization of the machining economics problem under the failure replacement strategy. International Journal of Production Economics, 2002, 80, 213-230.	5.1	13
79	Optimization of the machining economics problem under the periodic control strategy. International Journal of Production Research, 2001, 39, 3889-3900.	4.9	9
80	A general scheme for solving a large set of scheduling problems with rejection in FPT time. Journal of Scheduling, 0, , 1.	1.3	3