Vitaly A Strusevich

List of Publications by Year
in descending order

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94 papers	1,697 citations	279798 23 h-index	330143 37 g-index
100 all docs	100 docs citations	100 times ranked	723 citing authors

#	Article	IF	Citations
1	Fully Polynomial Approximation Schemes forÂaÂSymmetric Quadratic Knapsack Problem andÂitsÂScheduling Applications. Algorithmica, 2010, 57, 769-795.	1.3	86
2	Single machine scheduling and due date assignment with positionally dependent processing times. European Journal of Operational Research, 2009, 198, 57-62.	5.7	85
3	Single machine scheduling models with deterioration andÂlearning: handling precedence constraints viaÂpriorityÂgeneration. Journal of Scheduling, 2008, 11, 357-370.	1.9	74
4	Single machine scheduling with general positional deterioration and rate-modifying maintenance. Omega, 2012, 40, 791-804.	5.9	68
5	Scheduling with due date assignment under special conditions on job processing. Journal of Scheduling, 2012, 15, 447-456.	1.9	61
6	A New Heuristic for Three-Machine Flow Shop Scheduling. Operations Research, 1996, 44, 891-898.	1.9	56
7	A heuristic for the two-machine open-shop scheduling problem with transportation times. Discrete Applied Mathematics, 1999, 93, 287-304.	0.9	53
8	Combining time and position dependent effects on a single machine subject to rate-modifying activities. Omega, 2014, 42, 166-178.	5.9	53
9	Simple matching vs linear assignment in scheduling models with positional effects: A critical review. European Journal of Operational Research, 2012, 222, 393-407.	5.7	50
10	Scheduling problems for parallel dedicated machines under multiple resource constraints. Discrete Applied Mathematics, 2003, 133, 45-68.	0.9	46
11	Two-machine shop scheduling with an uncapacitated interstage transporter. IIE Transactions, 2005, 37, 725-736.	2.1	46
12	Two-machine flow shop no-wait scheduling with machine maintenance. 4or, 2005, 3, 303-313.	1.6	45
13	Approximation Algorithms for Three-Machine Open Shop Scheduling. ORSA Journal on Computing, 1993, 5, 321-326.	1.7	41
14	Approximation results for flow shop scheduling problems with machine availability constraints. Computers and Operations Research, 2009, 36, 379-390.	4.0	40
15	Two-machine open shop scheduling with an availability constraint. Operations Research Letters, 2001, 29, 65-77.	0.7	35
16	Preemptive models of scheduling with controllable processing times and of scheduling with imprecise computation: A review of solution approaches. European Journal of Operational Research, 2018, 266, 795-818.	5.7	35
17	Single machine scheduling with controllable release and processing parameters. Discrete Applied Mathematics, 2006, 154, 2178-2199.	0.9	34
18	Pre-Emptive Scheduling Problems with Controllable Processing Times. Journal of Scheduling, 2005, 8, 233-253.	1.9	32

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19	Scheduling with Time-Changing Effects and Rate-Modifying Activities. Profiles in Operations Research, 2017, , .	0.4	30
20	Scheduling parallel dedicated machines with the speedingâ€up resource. Naval Research Logistics, 2008, 55, 377-389.	2.2	26
21	Single machine scheduling with time-dependent linear deterioration and rate-modifying maintenance. Journal of the Operational Research Society, 2015, 66, 500-515.	3.4	26
22	Two-machine flow shop and open shop scheduling problems with a single maintenance window. European Journal of Operational Research, 2018, 271, 388-400.	5.7	26
23	Single machine scheduling with precedence constraints and positionally dependent processing times. Computers and Operations Research, 2012, 39, 1218-1224.	4.0	24
24	Parallel Machine Scheduling: Impact of Adding Extra Machines. Operations Research, 2013, 61, 1243-1257.	1.9	24
25	Two machine open shop scheduling problem with setup, processing and removal times separated. Computers and Operations Research, 1993, 20, 597-611.	4.0	22
26	Two-machine shop scheduling: Compromise between flexibility and makespan value. European Journal of Operational Research, 2005, 167, 796-809.	5.7	22
27	The symmetric quadratic knapsack problem: approximation and scheduling applications. 4or, 2012, 10, 111-161.	1.6	22
28	The Block Retrieval Problem. European Journal of Operational Research, 2018, 265, 931-950.	5.7	22
29	Batching decisions for assembly production systems. European Journal of Operational Research, 2004, 157, 620-642.	5.7	20
30	MINIMIZING TOTAL WEIGHTED EARLINESS-TARDINESS ON A SINGLE MACHINE AROUND A SMALL COMMON DUE DATE: AN FPTAS USING QUADRATIC KNAPSACK. International Journal of Foundations of Computer Science, 2010, 21, 357-383.	1.1	20
31	Worst-case analysis of heuristics for open shops with parallel machines. European Journal of Operational Research, 1993, 70, 379-390.	5.7	19
32	Two simple constant ratio approximation algorithms for minimizing the total weighted completion time on a single machine with a fixed non-availability interval. European Journal of Operational Research, 2009, 199, 111-116.	5.7	19
33	Fast approximation schemes for Boolean programming and scheduling problems related to positive convex Half-Product. European Journal of Operational Research, 2013, 228, 24-32.	5.7	19
34	Application of Submodular Optimization to Single Machine Scheduling with Controllable Processing Times Subject to Release Dates and Deadlines. INFORMS Journal on Computing, 2016, 28, 148-161.	1.7	19
35	Decomposition algorithms for submodular optimization with applications to parallel machine scheduling with controllable processing times. Mathematical Programming, 2015, 153, 495-534.	2.4	18
36	A fast FPTAS for single machine scheduling problem of minimizing total weighted earliness and tardiness about a large common due date. Omega, 2020, 90, 101992.	5.9	18

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37	Approximation algorithms for two-machine flow shop scheduling with batch setup times. Mathematical Programming, 1998, 82, 255-271.	2.4	17
38	Two-machine flow shop no-wait scheduling with a nonavailability interval. Naval Research Logistics, 2004, 51, 613-631.	2.2	17
39	Minimization of passenger takeoff and landing risk in offshore helicopter transportation: Models, approaches and analysis. Omega, 2015, 51, 93-106.	5.9	17
40	SINGLE MACHINE SCHEDULING WITH CONTROLLABLE PROCESSING TIMES BY SUBMODULAR OPTIMIZATION. International Journal of Foundations of Computer Science, 2009, 20, 247-269.	1.1	16
41	Transporting jobs through a twoâ€machine open shop. Naval Research Logistics, 2009, 56, 1-18.	2.2	16
42	Scheduling Three-Operation Jobs in a Two-Machine Flow Shop to Minimize Makespan. Annals of Operations Research, 2004, 129, 171-185.	4.1	15
43	Two machine flow shop scheduling problem with no wait in process: controllable machine speeds. Discrete Applied Mathematics, 1995, 59, 75-86.	0.9	14
44	Preemptive Scheduling on Uniform Parallel Machines with Controllable Job Processing Times. Algorithmica, 2008, 51, 451-473.	1.3	14
45	Approximation schemes for scheduling on a single machine subject to cumulative deterioration and maintenance. Journal of Scheduling, 2013, 16, 675-683.	1.9	14
46	Optimizing the half-product and related quadratic Boolean functions: approximation and scheduling applications. Annals of Operations Research, 2016, 240, 39-94.	4.1	14
47	Two-stage open shop scheduling with a bottleneck machine. European Journal of Operational Research, 2001, 128, 159-174.	5.7	12
48	Hamiltonian properties of locally connected graphs with bounded vertex degree. Discrete Applied Mathematics, 2011, 159, 1759-1774.	0.9	12
49	Three is easy, two is hard: open shop sum-batch scheduling problem refined. Operations Research Letters, 2006, 34, 459-464.	0.7	10
50	A Submodular Optimization Approach to Bicriteria Scheduling Problems with Controllable Processing Times on Parallel Machines. SIAM Journal on Discrete Mathematics, 2013, 27, 186-204.	0.8	9
51	Scheduling incompatible tasks on two machines. European Journal of Operational Research, 2010, 200, 334-346.	5.7	8
52	Single parameter analysis of power of preemption on two and three uniform machines. Discrete Optimization, 2014, 12, 26-46.	0.9	8
53	Power of Preemption for Minimizing Total Completion Time on Uniform Parallel Machines. SIAM Journal on Discrete Mathematics, 2017, 31, 101-123.	0.8	8
54	Complexity and approximation of open shop scheduling to minimize the makespan: A review of models and approaches. Computers and Operations Research, 2022, 144, 105732.	4.0	8

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55	Flow Shop Scheduling Problems Under Machineâ€"Dependent Precedence Constraints. Journal of Combinatorial Optimization, 2004, 8, 13-28.	1.3	7
56	AN IMPROVED APPROXIMATION ALGORITHM FOR THE TWO-MACHINE FLOW SHOP SCHEDULING PROBLEM WITH AN INTERSTAGE TRANSPORTER. International Journal of Foundations of Computer Science, 2007, 18, 565-591.	1.1	7
57	Determining optimal sizes of bounded batches with rejection via quadratic min-cost flow. Naval Research Logistics, 2017, 64, 217-224.	2.2	7
58	Single machine scheduling with a generalized job-dependent cumulative effect. Journal of Scheduling, 2017, 20, 583-592.	1.9	7
59	Machine Speed Scaling by Adapting Methods for Convex Optimization with Submodular Constraints. INFORMS Journal on Computing, 2017, 29, 724-736.	1.7	7
60	Approximation schemes for non-separable non-linear boolean programming problems under nested knapsack constraints. European Journal of Operational Research, 2018, 270, 435-447.	5.7	7
61	An overview of computational issues in combinatorial optimization. Annals of Operations Research, 2013, 207, 1-5.	4.1	6
62	Schedules with a single preemption on uniform parallel machines. Discrete Applied Mathematics, 2019, 261, 332-343.	0.9	6
63	Approximation algorithms for makespan minimization on identical parallel machines under resource constraints. Journal of the Operational Research Society, 2021, 72, 2135-2146.	3.4	6
64	Heuristics for short route job shop scheduling problems. Mathematical Methods of Operations Research, 1998, 48, 359-375.	1.0	4
65	Differential approximation schemes for half-product related functions and their scheduling applications. Discrete Applied Mathematics, 2017, 217, 71-78.	0.9	4
66	Scheduling problems with controllable processing times and a common deadline to minimize maximum compression cost. Journal of Global Optimization, 2020, 76, 471-490.	1.8	4
67	Parametric analysis of the quality of single preemption schedules on three uniform parallel machines. Annals of Operations Research, 2021, 298, 469-495.	4.1	4
68	An improved approximation algorithm for the two-machine open shop scheduling problem with family setup times. IIE Transactions, 2008, 40, 478-493.	2.1	3
69	An approximation algorithm for the three-machine scheduling problem with the routes given by the same partial order. Computers and Industrial Engineering, 2014, 76, 347-359.	6.3	3
70	Models and algorithms for energy-efficient scheduling with immediate start of jobs. Journal of Scheduling, 2018, 21, 505-516.	1.9	3
71	Three-machine shop scheduling with partially ordered processing routes. Journal of the Operational Research Society, 2002, 53, 574-582.	3.4	2
72	Approximability issues for unconstrained and constrained maximization of half-product related functions. Theoretical Computer Science, 2017, 659, 64-71.	0.9	2

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73	Refined conditions for V-shaped optimal sequencing on a single machine to minimize total completion time under combined effects. Journal of Scheduling, 2020, 23, 665-680.	1.9	2
74	Fast Divide-and-Conquer Algorithms for Preemptive Scheduling Problems with Controllable Processing Times â€“ A Polymatroid Optimization Approach. Lecture Notes in Computer Science, 2008, , 756-767.	1.3	2
75	Due Date Assignment and Scheduling under Special Conditions on Job Processing. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 522-527.	0.4	1
76	Vyacheslav Tanaev: contributions to scheduling and related areas. Journal of Scheduling, 2012, 15, 403-418.	1.9	1
77	Preemptive scheduling on two identical parallel machines with a single transporter. Journal of Combinatorial Optimization, 2013, 25, 279-307.	1.3	1
78	Handling Scheduling Problems with Controllable Parameters by Methods of Submodular Optimization. Lecture Notes in Computer Science, 2016, , 74-90.	1.3	1
79	Scheduling with Flexible Maintenance. Profiles in Operations Research, 2017, , 291-315.	0.4	1
80	Relevant Boolean Programming Problems. Profiles in Operations Research, 2017, , 57-90.	0.4	1
81	TWO-MACHINE FLOW SHOP SCHEDULING WITH AN INTERSTAGE TRANSPORTER: TWO SHIPMENTS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 27-31.	0.4	0
82	On Hamilton Cycles in Locally Connected Graphs with Vertex Degree Constraints. Electronic Notes in Discrete Mathematics, 2007, 29, 169-173.	0.4	0
83	Editorial: new branches, old roots. Journal of Scheduling, 2012, 15, 399-401.	1.9	0
84	Scheduling with Positional Effects. Profiles in Operations Research, 2017, , 113-133.	0.4	0
85	General Framework for Studying Models with Rate-Modifying Activities. Profiles in Operations Research, 2017, , 241-253.	0.4	0
86	Single machine scheduling subject to a generalized linear cumulative effect. , 2016, , .		0
87	Scheduling with Fixed Compulsory Maintenance Periods. Profiles in Operations Research, 2017, , 255-290.	0.4	0
88	Pairwise Interchange Argument and Priority Rules. Profiles in Operations Research, 2017, , 19-36.	0.4	0
89	Scheduling with Maintenance and Start-Time-Dependent Effects. Profiles in Operations Research, 2017, , 361-383.	0.4	0
90	Convex Sequences and Combinatorial Counting. Profiles in Operations Research, 2017, , 91-102.	0.4	0

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91	Scheduling with Pure and Combined Cumulative Effects. Profiles in Operations Research, 2017, , 185-207.	0.4	0
92	Scheduling with Maintenance and Linear Cumulative Effects. Profiles in Operations Research, 2017, , 415-431.	0.4	0
93	Minmax scheduling and due-window assignment with position-dependent processing times and job rejection. , 2018, , .		0
94	Single machine scheduling to minimize total completion time under positional and cumulative deterioration effects. , 2018, , .		0