

# Vitaly A Strusevich

## List of Publications by Year in descending order

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94  
papers

1,697  
citations

318942

23  
h-index

371746

37  
g-index

100  
all docs

100  
docs citations

100  
times ranked

828  
citing authors

#	ARTICLE	IF	CITATIONS
1	Complexity and approximation of open shop scheduling to minimize the makespan: A review of models and approaches. <i>Computers and Operations Research</i> , 2022, 144, 105732.	2.4	8
2	Approximation algorithms for makespan minimization on identical parallel machines under resource constraints. <i>Journal of the Operational Research Society</i> , 2021, 72, 2135-2146.	2.1	6
3	Parametric analysis of the quality of single preemption schedules on three uniform parallel machines. <i>Annals of Operations Research</i> , 2021, 298, 469-495.	2.6	4
4	A fast FPTAS for single machine scheduling problem of minimizing total weighted earliness and tardiness about a large common due date. <i>Omega</i> , 2020, 90, 101992.	3.6	18
5	Scheduling problems with controllable processing times and a common deadline to minimize maximum compression cost. <i>Journal of Global Optimization</i> , 2020, 76, 471-490.	1.1	4
6	Refined conditions for V-shaped optimal sequencing on a single machine to minimize total completion time under combined effects. <i>Journal of Scheduling</i> , 2020, 23, 665-680.	1.3	2
7	Schedules with a single preemption on uniform parallel machines. <i>Discrete Applied Mathematics</i> , 2019, 261, 332-343.	0.5	6
8	Approximation schemes for non-separable non-linear boolean programming problems under nested knapsack constraints. <i>European Journal of Operational Research</i> , 2018, 270, 435-447.	3.5	7
9	Preemptive models of scheduling with controllable processing times and of scheduling with imprecise computation: A review of solution approaches. <i>European Journal of Operational Research</i> , 2018, 266, 795-818.	3.5	35
10	Models and algorithms for energy-efficient scheduling with immediate start of jobs. <i>Journal of Scheduling</i> , 2018, 21, 505-516.	1.3	3
11	Two-machine flow shop and open shop scheduling problems with a single maintenance window. <i>European Journal of Operational Research</i> , 2018, 271, 388-400.	3.5	26
12	The Block Retrieval Problem. <i>European Journal of Operational Research</i> , 2018, 265, 931-950.	3.5	22
13	Minmax scheduling and due-window assignment with position-dependent processing times and job rejection. , 2018, , .		0
14	Single machine scheduling to minimize total completion time under positional and cumulative deterioration effects. , 2018, , .		0
15	Differential approximation schemes for half-product related functions and their scheduling applications. <i>Discrete Applied Mathematics</i> , 2017, 217, 71-78.	0.5	4
16	Power of Preemption for Minimizing Total Completion Time on Uniform Parallel Machines. <i>SIAM Journal on Discrete Mathematics</i> , 2017, 31, 101-123.	0.4	8
17	Determining optimal sizes of bounded batches with rejection via quadratic min-cost flow. <i>Naval Research Logistics</i> , 2017, 64, 217-224.	1.4	7
18	Scheduling with Time-Changing Effects and Rate-Modifying Activities. <i>Profiles in Operations Research</i> , 2017, , .	0.3	30

#	ARTICLE	IF	CITATIONS
19	Scheduling with Positional Effects. Profiles in Operations Research, 2017, , 113-133.	0.3	0
20	General Framework for Studying Models with Rate-Modifying Activities. Profiles in Operations Research, 2017, , 241-253.	0.3	0
21	Single machine scheduling with a generalized job-dependent cumulative effect. Journal of Scheduling, 2017, 20, 583-592.	1.3	7
22	Approximability issues for unconstrained and constrained maximization of half-product related functions. Theoretical Computer Science, 2017, 659, 64-71.	0.5	2
23	Machine Speed Scaling by Adapting Methods for Convex Optimization with Submodular Constraints. INFORMS Journal on Computing, 2017, 29, 724-736.	1.0	7
24	Scheduling with Fixed Compulsory Maintenance Periods. Profiles in Operations Research, 2017, , 255-290.	0.3	0
25	Pairwise Interchange Argument and Priority Rules. Profiles in Operations Research, 2017, , 19-36.	0.3	0
26	Scheduling with Maintenance and Start-Time-Dependent Effects. Profiles in Operations Research, 2017, , 361-383.	0.3	0
27	Scheduling with Flexible Maintenance. Profiles in Operations Research, 2017, , 291-315.	0.3	1
28	Relevant Boolean Programming Problems. Profiles in Operations Research, 2017, , 57-90.	0.3	1
29	Convex Sequences and Combinatorial Counting. Profiles in Operations Research, 2017, , 91-102.	0.3	0
30	Scheduling with Pure and Combined Cumulative Effects. Profiles in Operations Research, 2017, , 185-207.	0.3	0
31	Scheduling with Maintenance and Linear Cumulative Effects. Profiles in Operations Research, 2017, , 415-431.	0.3	0
32	Optimizing the half-product and related quadratic Boolean functions: approximation and scheduling applications. Annals of Operations Research, 2016, 240, 39-94.	2.6	14
33	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.	1.0	19
34	Handling Scheduling Problems with Controllable Parameters by Methods of Submodular Optimization. Lecture Notes in Computer Science, 2016, , 74-90.	1.0	1
35	Single machine scheduling subject to a generalized linear cumulative effect. , 2016, , .		0
36	Single machine scheduling with time-dependent linear deterioration and rate-modifying maintenance. Journal of the Operational Research Society, 2015, 66, 500-515.	2.1	26

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37	Decomposition algorithms for submodular optimization with applications to parallel machine scheduling with controllable processing times. <i>Mathematical Programming</i> , 2015, 153, 495-534.	1.6	18
38	Minimization of passenger takeoff and landing risk in offshore helicopter transportation: Models, approaches and analysis. <i>Omega</i> , 2015, 51, 93-106.	3.6	17
39	An approximation algorithm for the three-machine scheduling problem with the routes given by the same partial order. <i>Computers and Industrial Engineering</i> , 2014, 76, 347-359.	3.4	3
40	Single parameter analysis of power of preemption on two and three uniform machines. <i>Discrete Optimization</i> , 2014, 12, 26-46.	0.6	8
41	Combining time and position dependent effects on a single machine subject to rate-modifying activities. <i>Omega</i> , 2014, 42, 166-178.	3.6	53
42	Preemptive scheduling on two identical parallel machines with a single transporter. <i>Journal of Combinatorial Optimization</i> , 2013, 25, 279-307.	0.8	1
43	Approximation schemes for scheduling on a single machine subject to cumulative deterioration and maintenance. <i>Journal of Scheduling</i> , 2013, 16, 675-683.	1.3	14
44	An overview of computational issues in combinatorial optimization. <i>Annals of Operations Research</i> , 2013, 207, 1-5.	2.6	6
45	Parallel Machine Scheduling: Impact of Adding Extra Machines. <i>Operations Research</i> , 2013, 61, 1243-1257.	1.2	24
46	Fast approximation schemes for Boolean programming and scheduling problems related to positive convex Half-Product. <i>European Journal of Operational Research</i> , 2013, 228, 24-32.	3.5	19
47	A Submodular Optimization Approach to Bicriteria Scheduling Problems with Controllable Processing Times on Parallel Machines. <i>SIAM Journal on Discrete Mathematics</i> , 2013, 27, 186-204.	0.4	9
48	Simple matching vs linear assignment in scheduling models with positional effects: A critical review. <i>European Journal of Operational Research</i> , 2012, 222, 393-407.	3.5	50
49	Vyacheslav Tanaev: contributions to scheduling and related areas. <i>Journal of Scheduling</i> , 2012, 15, 403-418.	1.3	1
50	Scheduling with due date assignment under special conditions on job processing. <i>Journal of Scheduling</i> , 2012, 15, 447-456.	1.3	61
51	Editorial: new branches, old roots. <i>Journal of Scheduling</i> , 2012, 15, 399-401.	1.3	0
52	The symmetric quadratic knapsack problem: approximation and scheduling applications. <i>4or</i> , 2012, 10, 111-161.	1.0	22
53	Single machine scheduling with precedence constraints and positionally dependent processing times. <i>Computers and Operations Research</i> , 2012, 39, 1218-1224.	2.4	24
54	Single machine scheduling with general positional deterioration and rate-modifying maintenance. <i>Omega</i> , 2012, 40, 791-804.	3.6	68

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55	Hamiltonian properties of locally connected graphs with bounded vertex degree. <i>Discrete Applied Mathematics</i> , 2011, 159, 1759-1774.	0.5	12
56	Scheduling incompatible tasks on two machines. <i>European Journal of Operational Research</i> , 2010, 200, 334-346.	3.5	8
57	Fully Polynomial Approximation Schemes for Symmetric Quadratic Knapsack Problem and Scheduling Applications. <i>Algorithmica</i> , 2010, 57, 769-795.	1.0	86
58	MINIMIZING TOTAL WEIGHTED EARLINESS-TARDINESS ON A SINGLE MACHINE AROUND A SMALL COMMON DUE DATE: AN FPTAS USING QUADRATIC KNAPSACK. <i>International Journal of Foundations of Computer Science</i> , 2010, 21, 357-383.	0.8	20
59	SINGLE MACHINE SCHEDULING WITH CONTROLLABLE PROCESSING TIMES BY SUBMODULAR OPTIMIZATION. <i>International Journal of Foundations of Computer Science</i> , 2009, 20, 247-269.	0.8	16
60	Transporting jobs through a two-machine open shop. <i>Naval Research Logistics</i> , 2009, 56, 1-18.	1.4	16
61	Two simple constant ratio approximation algorithms for minimizing the total weighted completion time on a single machine with a fixed non-availability interval. <i>European Journal of Operational Research</i> , 2009, 199, 111-116.	3.5	19
62	Approximation results for flow shop scheduling problems with machine availability constraints. <i>Computers and Operations Research</i> , 2009, 36, 379-390.	2.4	40
63	Single machine scheduling and due date assignment with positionally dependent processing times. <i>European Journal of Operational Research</i> , 2009, 198, 57-62.	3.5	85
64	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
65	Single machine scheduling models with deterioration and learning: handling precedence constraints via priority generation. <i>Journal of Scheduling</i> , 2008, 11, 357-370.	1.3	74
66	Preemptive Scheduling on Uniform Parallel Machines with Controllable Job Processing Times. <i>Algorithmica</i> , 2008, 51, 451-473.	1.0	14
67	Scheduling parallel dedicated machines with the speeding-up resource. <i>Naval Research Logistics</i> , 2008, 55, 377-389.	1.4	26
68	An improved approximation algorithm for the two-machine open shop scheduling problem with family setup times. <i>IIE Transactions</i> , 2008, 40, 478-493.	2.1	3
69	Fast Divide-and-Conquer Algorithms for Preemptive Scheduling Problems with Controllable Processing Times – A Polymatroid Optimization Approach. <i>Lecture Notes in Computer Science</i> , 2008, , 756-767.	1.0	2
70	AN IMPROVED APPROXIMATION ALGORITHM FOR THE TWO-MACHINE FLOW SHOP SCHEDULING PROBLEM WITH AN INTERSTAGE TRANSPORTER. <i>International Journal of Foundations of Computer Science</i> , 2007, 18, 565-591.	0.8	7
71	On Hamilton Cycles in Locally Connected Graphs with Vertex Degree Constraints. <i>Electronic Notes in Discrete Mathematics</i> , 2007, 29, 169-173.	0.4	0
72	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

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73	Single machine scheduling with controllable release and processing parameters. <i>Discrete Applied Mathematics</i> , 2006, 154, 2178-2199.	0.5	34
74	Three is easy, two is hard: open shop sum-batch scheduling problem refined. <i>Operations Research Letters</i> , 2006, 34, 459-464.	0.5	10
75	Two-machine shop scheduling: Compromise between flexibility and makespan value. <i>European Journal of Operational Research</i> , 2005, 167, 796-809.	3.5	22
76	Two-machine flow shop no-wait scheduling with machine maintenance. <i>4or</i> , 2005, 3, 303-313.	1.0	45
77	Pre-Emptive Scheduling Problems with Controllable Processing Times. <i>Journal of Scheduling</i> , 2005, 8, 233-253.	1.3	32
78	Two-machine shop scheduling with an uncapacitated interstage transporter. <i>IIE Transactions</i> , 2005, 37, 725-736.	2.1	46
79	Scheduling Three-Operation Jobs in a Two-Machine Flow Shop to Minimize Makespan. <i>Annals of Operations Research</i> , 2004, 129, 171-185.	2.6	15
80	Flow Shop Scheduling Problems Under Machine-Dependent Precedence Constraints. <i>Journal of Combinatorial Optimization</i> , 2004, 8, 13-28.	0.8	7
81	Batching decisions for assembly production systems. <i>European Journal of Operational Research</i> , 2004, 157, 620-642.	3.5	20
82	Two-machine flow shop no-wait scheduling with a nonavailability interval. <i>Naval Research Logistics</i> , 2004, 51, 613-631.	1.4	17
83	Scheduling problems for parallel dedicated machines under multiple resource constraints. <i>Discrete Applied Mathematics</i> , 2003, 133, 45-68.	0.5	46
84	Three-machine shop scheduling with partially ordered processing routes. <i>Journal of the Operational Research Society</i> , 2002, 53, 574-582.	2.1	2
85	Two-machine open shop scheduling with an availability constraint. <i>Operations Research Letters</i> , 2001, 29, 65-77.	0.5	35
86	Two-stage open shop scheduling with a bottleneck machine. <i>European Journal of Operational Research</i> , 2001, 128, 159-174.	3.5	12
87	A heuristic for the two-machine open-shop scheduling problem with transportation times. <i>Discrete Applied Mathematics</i> , 1999, 93, 287-304.	0.5	53
88	Approximation algorithms for two-machine flow shop scheduling with batch setup times. <i>Mathematical Programming</i> , 1998, 82, 255-271.	1.6	17
89	Heuristics for short route job shop scheduling problems. <i>Mathematical Methods of Operations Research</i> , 1998, 48, 359-375.	0.4	4
90	A New Heuristic for Three-Machine Flow Shop Scheduling. <i>Operations Research</i> , 1996, 44, 891-898.	1.2	56

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91	Two machine flow shop scheduling problem with no wait in process: controllable machine speeds. Discrete Applied Mathematics, 1995, 59, 75-86.	0.5	14
92	Worst-case analysis of heuristics for open shops with parallel machines. European Journal of Operational Research, 1993, 70, 379-390.	3.5	19
93	Two machine open shop scheduling problem with setup, processing and removal times separated. Computers and Operations Research, 1993, 20, 597-611.	2.4	22
94	Approximation Algorithms for Three-Machine Open Shop Scheduling. ORSA Journal on Computing, 1993, 5, 321-326.	1.7	41