Hans Kellerer

List of Publications by Year
in descending order

76 papers	3,666 citations	293460 24 h-index	274796 44 g-index
79 all docs	79 docs citations	79 times ranked	2662 citing authors

#	Article	IF	Citations
1	Heuristic approaches for scheduling jobs and vehicles in a cyclic flexible manufacturing system. Procedia Computer Science, 2021, 180, 825-832.	1.2	5
2	Preface: New trends on combinatorial optimization for network and logistical applications. Annals of Operations Research, 2021, 298, 1-5.	2.6	0
3	An Improved Parametric Algorithm on Two-Machine Scheduling with Given Lower and Upper Bounds for the Total Processing Time. Theoretical Computer Science, 2021, 880, 69-69.	0.5	2
4	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.	3.6	18
5	Restricted assignment scheduling with resource constraints. Theoretical Computer Science, 2019, 760, 72-87.	0.5	7
6	Using weight decision for decreasing the price of anarchy in selfish bin packing games. European Journal of Operational Research, 2019, 278, 160-169.	3.5	8
7	Complexity results for common due date scheduling problems with interval data and minmax regret criterion. Discrete Applied Mathematics, 2019, 264, 76-89.	0.5	5
8	Approximation Schemes for Minimizing the Maximum Lateness on a Single Machine with Release Times Under Non-availability or Deadline Constraints. Algorithmica, 2018, 80, 3825-3843.	1.0	11
9	Approximation schemes for non-separable non-linear boolean programming problems under nested knapsack constraints. European Journal of Operational Research, 2018, 270, 435-447.	3.5	7
10	Improved Fully Polynomial Approximation Schemes for the Maximum Lateness Minimization on a Single Machine with a Fixed Operator or Machine Non-Availability Interval. Lecture Notes in Computer Science, 2018, , 417-427.	1.0	2
11	Dynamic Pricing to Minimize Maximum Regret. Production and Operations Management, 2017, 26, 47-63.	2.1	13
12	Approximability issues for unconstrained and constrained maximization of half-product related functions. Theoretical Computer Science, 2017, 659, 64-71.	0.5	2
13	Semi-online scheduling on a single machine with unexpected breakdown. Theoretical Computer Science, 2016, 646, 40-48.	0.5	9
14	Optimizing the half-product and related quadratic Boolean functions: approximation and scheduling applications. Annals of Operations Research, 2016, 240, 39-94.	2.6	14
15	Efficient approximation schemes for the maximum lateness minimization on a single machine with a fixed operator or machine non-availability interval. Journal of Combinatorial Optimization, 2016, 32, 970-981.	0.8	12
16	Knapsack. , 2016, , 1048-1051.		0
17	An efficient algorithm for semi-online multiprocessor scheduling with given total processing time. Journal of Scheduling, 2015, 18, 623-630.	1.3	17
18	Offline black and white bin packing. Theoretical Computer Science, 2015, 596, 92-101.	0.5	5

#	Article	IF	Citations
19	Approximation algorithms for maximizing the weighted number of early jobs on a single machine with non-availability intervals. Journal of Combinatorial Optimization, 2015, 30, 403-412.	0.8	8
20	Online Results for Black and White Bin Packing. Theory of Computing Systems, 2015, 56, 137-155.	0.7	13
21	Efficient Approximation Schemes for the Maximum Lateness Minimization on a Single Machine with a Fixed Operator or Machine Non-Availability Interval. Lecture Notes in Computer Science, 2014, , 305-314.	1.0	2
22	Approximation algorithms for no idle time scheduling on a single machine with release times and delivery times. Discrete Applied Mathematics, 2014, 164, 154-160.	0.5	22
23	Preemptive scheduling on two identical parallel machines with a single transporter. Journal of Combinatorial Optimization, 2013, 25, 279-307.	0.8	1
24	Approximation schemes for scheduling on a single machine subject to cumulative deterioration and maintenance. Journal of Scheduling, 2013, 16, 675-683.	1.3	14
25	Fast approximation schemes for Boolean programming and scheduling problems related to positive convex Half-Product. European Journal of Operational Research, 2013, 228, 24-32.	3.5	19
26	An efficient algorithm for bin stretching. Operations Research Letters, 2013, 41, 343-346.	0.5	17
27	Black and White Bin Packing. Lecture Notes in Computer Science, 2013, , 131-144.	1.0	6
28	Algorithms better than LPT for semi-online scheduling with decreasing processing times. Operations Research Letters, 2012, 40, 349-352.	0.5	15
29	The symmetric quadratic knapsack problem: approximation and scheduling applications. 4or, 2012, 10, 111-161.	1.0	22
30	Parallel dedicated machines scheduling with chain precedence constraints. European Journal of Operational Research, 2012, 221, 296-305.	3.5	14
31	Fast approximation algorithms to minimize a special weighted flow-time criterion on a single machine with a non-availability interval and release dates. Journal of Scheduling, 2011, 14, 257-265.	1.3	14
32	Multiple subset sum with inclusive assignment set restrictions. Naval Research Logistics, 2011, 58, 546-563.	1.4	9
33	Batch machine production with perishability time windows and limited batch size. European Journal of Operational Research, 2011, 210, 39-47.	3.5	13
34	Fully Polynomial Approximation Schemes forÂaÂSymmetric Quadratic Knapsack Problem andÂitsÂScheduling Applications. Algorithmica, 2010, 57, 769-795.	1.0	86
35	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.	0.8	20
36	Approximation algorithms to minimize a special weighted flow-time criterion on a single machine with a fixed job and release dates. , 2009, , .		0

#	Article	IF	Citations
37	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.	3.5	19
38	An approximation algorithm for identical parallel machine scheduling with resource dependent processing times. Operations Research Letters, 2008, 36, 157-159.	0.5	23
39	Scheduling parallel dedicated machines with the speeding€up resource. Naval Research Logistics, 2008, 55, 377-389.	1.4	26
40	Knapsack. , 2008, , 419-421.		0
41	Parallel machine scheduling with job assignment restrictions. Naval Research Logistics, 2007, 54, 250-257.	1.4	68
42	Semi-on-line multiprocessor scheduling with given total processing time. Theoretical Computer Science, 2005, 337, 134-146.	0.5	40
43	Knapsack Problems. , 2004, , .		1,566
44	Improved Dynamic Programming in Connection with an FPTAS for the Knapsack Problem. Journal of Combinatorial Optimization, 2004, 8, 5-11.	0.8	64
45	Algorithms for on-line bin-packing problems with cardinality constraints. Discrete Applied Mathematics, 2004, 143, 238-251.	0.5	49
46	A 3/4-Approximation Algorithm for Multiple Subset Sum. Journal of Heuristics, 2003, 9, 99-111.	1.1	23
47	Optimization of cardinality constrained portfolios with a hybrid local search algorithm. OR Spectrum, 2003, 25, 481-495.	2.1	123
48	Design of tariff zones in public transportation networks: theoretical results and heuristics. Mathematical Methods of Operations Research, 2003, 58, 359-374.	0.4	14
49	Approximation schemes for ordered vector packing problems. Naval Research Logistics, 2003, 50, 58-69.	1.4	46
50	An efficient fully polynomial approximation scheme for the Subset-Sum Problem. Journal of Computer and System Sciences, 2003, 66, 349-370.	0.9	62
51	An approximation algorithm with absolute worst-case performance ratio 2 for two-dimensional vector packing. Operations Research Letters, 2003, 31, 35-41.	0.5	34
52	Approximating Multiobjective Knapsack Problems. Management Science, 2002, 48, 1603-1612.	2.4	92
53	Bounds and Tabu Search for a Cyclic Max-Min Scheduling Problem. Journal of Heuristics, 2001, 7, 371-390.	1.1	0
54	A 5/4 Linear Time Bin Packing Algorithm. Journal of Computer and System Sciences, 2000, 60, 145-160.	0.9	32

#	Article	IF	Citations
55	Linear compound algorithms for the partitioning problem. Naval Research Logistics, 2000, 47, 593-601.	1.4	11
56	A PTAS for the Multiple Subset Sum Problem with different knapsack capacities. Information Processing Letters, 2000, 73, 111-118.	0.4	38
57	Two linear approximation algorithms for the subset-sum problem. European Journal of Operational Research, 2000, 120, 289-296.	3.5	13
58	Approximation algorithms for knapsack problems with cardinality constraints. European Journal of Operational Research, 2000, 123, 333-345.	3.5	135
59	Selecting Portfolios with Fixed Costs and Minimum Transaction Lots. Annals of Operations Research, 2000, 99, 287-304.	2.6	128
60	The Multiple Subset Sum Problem. SIAM Journal on Optimization, 2000, 11, 308-319.	1.2	65
61	A New Fully Polynomial Time Approximation Scheme for the Knapsack Problem. Journal of Combinatorial Optimization, 1999, 3, 59-71.	0.8	80
62	Approximability and Nonapproximability Results for Minimizing Total Flow Time on a Single Machine. SIAM Journal on Computing, 1999, 28, 1155-1166.	0.8	57
63	A 7/6–Approximation Algorithm For 3-Partitioning And Its Application To Multiprocessor Scheduling. Infor, 1999, 37, 48-56.	0.5	7
64	A approximation algorithm for bin packing with extendable bins. Information Processing Letters, 1998, 65, 229-233.	0.4	37
65	Algorithms for multiprocessor scheduling with machine release times. IIE Transactions, 1998, 30, 991-999.	2.1	3
66	Thek-partitioning problem. Mathematical Methods of Operations Research, 1998, 47, 59-82.	0.4	42
67	Algorithms for multiprocessor scheduling with machine release times. IIE Transactions, 1998, 30, 991-999.	2.1	39
68	The Stock Size Problem. Operations Research, 1998, 46, S1-S12.	1.2	7
69	Semi on-line algorithms for the partition problem. Operations Research Letters, 1997, 21, 235-242.	0.5	156
70	Note: Open-shop scheduling with release dates to minimize maximum lateness. Naval Research Logistics, 1995, 42, 141-145.	1.4	5
71	A tight bound for 3-partitioning. Discrete Applied Mathematics, 1993, 45, 249-259.	0.5	15
72	On the Euclidean two paths problem. Discrete Applied Mathematics, 1993, 47, 165-173.	0.5	0

#	Article	IF	Citations
73	UET-scheduling with constrained processor allocations. Computers and Operations Research, 1992, 19, 1-8.	2.4	11
74	The exact LPT-bound for maximizing the minimum completion time. Operations Research Letters, 1992, 11, 281-287.	0.5	68
75	Prime covers and periodic patterns. Discrete Mathematics, 1990, 85, 191-206.	0.4	1
76	ï¿½ber die Quadratwurzel-Schranke fï¿½r Quadratische-Rest-Codes. Journal of Geometry, 1988, 31, 96-99.	0.1	3