

JÃ,rgen Bang-Jensen

List of Publications by Year in descending order

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136
papers

2,021
citations

331259

21
h-index

301761

39
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137
all docs

137
docs citations

137
times ranked

645
citing authors

#	ARTICLE	IF	CITATIONS
1	Digraphs. Springer Monographs in Mathematics, 2009, , .	0.1	348
2	When the greedy algorithm fails. Discrete Optimization, 2004, 1, 121-127.	0.6	105
3	Locally semicomplete digraphs: A generalization of tournaments. Journal of Graph Theory, 1990, 14, 371-390.	0.5	99
4	Quasi-transitive digraphs. Journal of Graph Theory, 1995, 20, 141-161.	0.5	72
5	The Complexity of Colouring by Semicomplete Digraphs. SIAM Journal on Discrete Mathematics, 1988, 1, 281-298.	0.4	59
6	Alternating cycles and paths in edge-coloured multigraphs: A survey. Discrete Mathematics, 1997, 165-166, 39-60.	0.4	57
7	The effect of two cycles on the complexity of colourings by directed graphs. Discrete Applied Mathematics, 1990, 26, 1-23.	0.5	50
8	Preserving and Increasing Local Edge-Connectivity in Mixed Graphs. SIAM Journal on Discrete Mathematics, 1995, 8, 155-178.	0.4	50
9	A Polynomial Algorithm for the 2-Path Problem for Semicomplete Digraphs. SIAM Journal on Discrete Mathematics, 1992, 5, 366-376.	0.4	43
10	Generalizations of tournaments: A survey. Journal of Graph Theory, 1998, 28, 171-202.	0.5	43
11	A classification of locally semicomplete digraphs. Discrete Mathematics, 1997, 167-168, 101-114.	0.4	41
12	In-Tournament Digraphs. Journal of Combinatorial Theory Series B, 1993, 59, 267-287.	0.6	38
13	Edge-Connectivity Augmentation with Partition Constraints. SIAM Journal on Discrete Mathematics, 1999, 12, 160-207.	0.4	36
14	Edge-disjoint in- and out-branchings in tournaments and related path problems. Journal of Combinatorial Theory Series B, 1991, 51, 1-23.	0.6	34
15	Efficient algorithms for real-life instances of the variable size bin packing problem. Computers and Operations Research, 2012, 39, 2848-2857.	2.4	27
16	Sufficient conditions for a digraph to be Hamiltonian. Journal of Graph Theory, 1996, 22, 181-187.	0.5	25
17	A polynomial algorithm for the Hamiltonian cycle problem in semicomplete multipartite digraphs. Journal of Graph Theory, 1998, 29, 111-132.	0.5	23
18	Edge-Connectivity Augmentation Preserving Simplicity. SIAM Journal on Discrete Mathematics, 1998, 11, 603-623.	0.4	23

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19	Augmenting hypergraphs by edges of size two. <i>Mathematical Programming</i> , 1999, 84, 467-481.	1.6	21
20	The structure of strong arc-locally semicomplete digraphs. <i>Discrete Mathematics</i> , 2004, 283, 1-6.	0.4	21
21	Sufficient Conditions for a Digraph to be Supereulerian. <i>Journal of Graph Theory</i> , 2015, 79, 8-20.	0.5	21
22	Alternating cycles and trails in 2-edge-coloured complete multigraphs. <i>Discrete Mathematics</i> , 1998, 188, 61-72.	0.4	20
23	Longest path partitions in generalizations of tournaments. <i>Discrete Mathematics</i> , 2006, 306, 1830-1839.	0.4	20
24	Strongly Connected Spanning Subdigraphs with the Minimum Number of Arcs in Quasi-transitive Digraphs. <i>SIAM Journal on Discrete Mathematics</i> , 2003, 16, 335-343.	0.4	19
25	Decomposing k -Arc-Strong Tournaments Into Strong Spanning Subdigraphs. <i>Combinatorica</i> , 2004, 24, 331.	0.6	19
26	Hereditarily hard H -colouring problems. <i>Discrete Mathematics</i> , 1995, 138, 75-92.	0.4	18
27	Digraphs with the path-merging property. <i>Journal of Graph Theory</i> , 1995, 20, 255-265.	0.5	17
28	Disjoint 3 -Cycles in Tournaments: A Proof of The Bermond-Thomassen Conjecture for Tournaments. <i>Journal of Graph Theory</i> , 2014, 75, 284-302.	0.5	17
29	A polynomial algorithm for hamiltonian-connectedness in semicomplete digraphs. <i>Journal of Algorithms</i> , 1992, 13, 114-127.	0.9	16
30	On the complexity of colouring by superdigraphs of bipartite graphs. <i>Discrete Mathematics</i> , 1992, 109, 27-44.	0.4	16
31	Arc-disjoint spanning sub(di)graphs in digraphs. <i>Theoretical Computer Science</i> , 2012, 438, 48-54.	0.5	16
32	Decomposing locally semicomplete digraphs into strong spanning subdigraphs. <i>Journal of Combinatorial Theory Series B</i> , 2012, 102, 701-714.	0.6	16
33	On chordal proper circular arc graphs. <i>Discrete Mathematics</i> , 1994, 128, 395-398.	0.4	15
34	A sufficient condition for a semicomplete multipartite digraph to be Hamiltonian. <i>Discrete Mathematics</i> , 1996, 161, 1-12.	0.4	15
35	Kings in quasi-transitive digraphs. <i>Discrete Mathematics</i> , 1998, 185, 19-27.	0.4	15
36	Small degree out-branchings. <i>Journal of Graph Theory</i> , 2003, 42, 297-307.	0.5	15

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37	Arc-Disjoint Paths in Decomposable Digraphs. <i>Journal of Graph Theory</i> , 2014, 77, 89-110.	0.5	15
38	On the structure of locally semicomplete digraphs. <i>Discrete Mathematics</i> , 1992, 100, 243-265.	0.4	13
39	Weakly Hamiltonian-connected ordinary multipartite tournaments. <i>Discrete Mathematics</i> , 1995, 138, 63-74.	0.4	13
40	A new sufficient condition for a digraph to be Hamiltonian. <i>Discrete Applied Mathematics</i> , 1999, 95, 61-72.	0.5	13
41	The minimum spanning strong subdigraph problem is fixed parameter tractable. <i>Discrete Applied Mathematics</i> , 2008, 156, 2924-2929.	0.5	13
42	Vertex heaviest paths and cycles in quasi-transitive digraphs. <i>Discrete Mathematics</i> , 1997, 163, 217-223.	0.4	12
43	Paths and cycles in extended and decomposable digraphs. <i>Discrete Mathematics</i> , 1997, 164, 5-19.	0.4	12
44	A note on vertex pancyclic oriented graphs. <i>Journal of Graph Theory</i> , 1999, 31, 313-318.	0.5	12
45	The Minimum Spanning Strong Subdigraph Problem for Extended Semicomplete Digraphs and Semicomplete Bipartite Digraphs. <i>Journal of Algorithms</i> , 2001, 41, 1-19.	0.9	12
46	Convex-round graphs are circular-perfect. <i>Journal of Graph Theory</i> , 2002, 40, 182-194.	0.5	12
47	Recognizing and representing proper interval graphs in parallel using merging and sorting. <i>Discrete Applied Mathematics</i> , 2007, 155, 442-456.	0.5	12
48	On the 2-Linkage Problem for Semicomplete Digraphs. <i>Annals of Discrete Mathematics</i> , 1988, 41, 23-37.	1.4	11
49	Hamiltonian Cycles Avoiding Prescribed Arcs in Tournaments. <i>Combinatorics Probability and Computing</i> , 1997, 6, 255-261.	0.8	11
50	Disjoint directed and undirected paths and cycles in digraphs. <i>Theoretical Computer Science</i> , 2009, 410, 5138-5144.	0.5	11
51	On the problem of finding disjoint cycles and dicycles in a digraph. <i>Combinatorica</i> , 2011, 31, 639-668.	0.6	11
52	Vertex coloring edge-weighted digraphs. <i>Information Processing Letters</i> , 2015, 115, 791-796.	0.4	11
53	Properly coloured Hamiltonian paths in edge-coloured complete graphs. <i>Discrete Applied Mathematics</i> , 1998, 82, 247-250.	0.5	10
54	Finding good 2-partitions of digraphs I. Hereditary properties. <i>Theoretical Computer Science</i> , 2016, 636, 85-94.	0.5	10

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55	Arc-disjoint strong spanning subdigraphs of semicomplete compositions. <i>Journal of Graph Theory</i> , 2020, 95, 267-289.	0.5	10
56	Fast algorithms for finding Hamiltonian paths and cycles in in-tournament digraphs. <i>Discrete Applied Mathematics</i> , 1993, 41, 75-79.	0.5	9
57	On k -strong and k -cyclic digraphs. <i>Discrete Mathematics</i> , 1996, 162, 1-11.	0.4	9
58	Arc-disjoint paths and trees in 2-regular digraphs. <i>Discrete Applied Mathematics</i> , 2013, 161, 2724-2730.	0.5	9
59	Finding good 2-partitions of digraphs II. Enumerable properties. <i>Theoretical Computer Science</i> , 2016, 640, 1-19.	0.5	9
60	Algorithms and Kernels for Feedback Set Problems in Generalizations of Tournaments. <i>Algorithmica</i> , 2016, 76, 320-343.	1.0	9
61	Highly connected hypergraphs containing no two edge-disjoint spanning connected subhypergraphs. <i>Discrete Applied Mathematics</i> , 2003, 131, 555-559.	0.5	8
62	Vertex-disjoint directed and undirected cycles in general digraphs. <i>Journal of Combinatorial Theory Series B</i> , 2014, 106, 1-14.	0.6	8
63	Antistrong digraphs. <i>Journal of Combinatorial Theory Series B</i> , 2017, 122, 68-90.	0.6	8
64	Cycles through k vertices in bipartite tournaments. <i>Combinatorica</i> , 1994, 14, 243-246.	0.6	7
65	Weakly Hamiltonian-connected locally semicomplete digraphs. <i>Journal of Graph Theory</i> , 1996, 21, 163-172.	0.5	7
66	Splitting Off Edges within a Specified Subset Preserving the Edge-Connectivity of the Graph. <i>Journal of Algorithms</i> , 2000, 37, 326-343.	0.9	7
67	Convex-Round and Concave-Round Graphs. <i>SIAM Journal on Discrete Mathematics</i> , 2000, 13, 179-193.	0.4	7
68	Problems and conjectures concerning connectivity, paths, trees and cycles in tournament-like digraphs. <i>Discrete Mathematics</i> , 2009, 309, 5655-5667.	0.4	7
69	Finding an induced subdivision of a digraph. <i>Theoretical Computer Science</i> , 2012, 443, 10-24.	0.5	7
70	(Arc-)disjoint flows in networks. <i>Theoretical Computer Science</i> , 2014, 526, 28-40.	0.5	7
71	Completing orientations of partially oriented graphs. <i>Journal of Graph Theory</i> , 2018, 87, 285-304.	0.5	7
72	Unsolved problems presented at the Julius Petersen Graph Theory Conference. <i>Discrete Mathematics</i> , 1992, 101, 351-360.	0.4	6

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73	Weakly Hamiltonian-Connected Vertices in Bipartite Tournaments. Journal of Combinatorial Theory Series B, 1995, 63, 261-280.	0.6	6
74	Adding and Reversing Arcs in Semicomplete Digraphs. Combinatorics Probability and Computing, 1998, 7, 17-25.	0.8	6
75	Tournaments and Semicomplete Digraphs. Springer Monographs in Mathematics, 2018, , 35-124.	0.1	6
76	On the complexity of hamiltonian path and cycle problems in certain classes of digraphs. Discrete Applied Mathematics, 1999, 95, 41-60.	0.5	5
77	Making a tournament k -arc-strong by reversing or deorienting arcs. Discrete Applied Mathematics, 2004, 136, 161-171.	0.5	5
78	Finding complementary cycles in locally semicomplete digraphs. Discrete Applied Mathematics, 2005, 146, 245-256.	0.5	5
79	Spanning 2-strong tournaments in 3-strong semicomplete digraphs. Discrete Mathematics, 2010, 310, 1424-1428.	0.4	5
80	Finding a subdivision of a digraph. Theoretical Computer Science, 2015, 562, 283-303.	0.5	5
81	Parameterized Algorithms for Non-separating Trees and Branchings in Digraphs. Algorithmica, 2016, 76, 279-296.	1.0	5
82	Out-degree reducing partitions of digraphs. Theoretical Computer Science, 2018, 719, 64-72.	0.5	5
83	Spanning eulerian subdigraphs avoiding k prescribed arcs in tournaments. Discrete Mathematics, 2020, 343, 112129.	0.4	5
84	Arc-disjoint in- and out-branchings in digraphs of independence number at most 2. Journal of Graph Theory, 2022, 100, 294-314.	0.5	5
85	Linkages in locally semicomplete digraphs and quasi-transitive digraphs. Discrete Mathematics, 1999, 196, 13-27.	0.4	4
86	Spanning k -arc-strong subdigraphs with few arcs in k -arc-strong tournaments. Journal of Graph Theory, 2004, 46, 265-284.	0.5	4
87	The complexity of colouring by locally semicomplete digraphs. Discrete Mathematics, 2010, 310, 2675-2684.	0.4	4
88	Disjoint Paths in Decomposable Digraphs. Journal of Graph Theory, 2017, 85, 545-567.	0.5	4
89	Bounded families of oriented graphs. Journal of Graph Theory, 2018, 89, 304-326.	0.5	4
90	Parameterized Algorithms for Survivable Network Design with Uniform Demands. , 2018, , 2838-2850.		4

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91	Bipartite spanning sub(di)graphs induced by 2-partitions. Journal of Graph Theory, 2019, 92, 130-151.	0.5	4
92	Out-colourings of digraphs. Journal of Graph Theory, 2020, 93, 88-112.	0.5	4
93	Proper-walk connection number of graphs. Journal of Graph Theory, 2021, 96, 137-159.	0.5	4
94	Complementary cycles containing prescribed vertices in tournaments. Discrete Mathematics, 2000, 214, 77-87.	0.4	3
95	Steiner type problems for digraphs that are locally semicomplete or extended semicomplete. Journal of Graph Theory, 2003, 44, 193-207.	0.5	3
96	Finding cheapest cycles in vertex-weighted quasi-transitive and extended semicomplete digraphs. Discrete Optimization, 2006, 3, 86-94.	0.6	3
97	Disjoint sub(di)graphs in digraphs. Electronic Notes in Discrete Mathematics, 2009, 34, 179-183.	0.4	3
98	Quasi-hamiltonian paths in semicomplete multipartite digraphs. Discrete Applied Mathematics, 2013, 161, 889-898.	0.5	3
99	Arc-Disjoint In- and Out-Branchings With the Same Root in Locally Semicomplete Digraphs. Journal of Graph Theory, 2014, 77, 278-298.	0.5	3
100	DAG-Width and Circumference of Digraphs. Journal of Graph Theory, 2016, 82, 194-206.	0.5	3
101	The complexity of finding arc-disjoint branching flows. Discrete Applied Mathematics, 2016, 209, 16-26.	0.5	3
102	On Supereulerian 2-Edge-Coloured Graphs. Graphs and Combinatorics, 2021, 37, 2601-2620.	0.2	3
103	Basic Terminology, Notation and Results. Springer Monographs in Mathematics, 2018, , 1-34.	0.1	3
104	Locally Semicomplete Digraphs and Generalizations. Springer Monographs in Mathematics, 2018, , 245-296.	0.1	3
105	Edge-connectivity augmentation preserving simplicity. , 0, , .		2
106	Parallel algorithms for the hamiltonian cycle and hamiltonian path problems in semicomplete bipartite digraphs. Algorithmica, 1997, 17, 67-87.	1.0	2
107	On persistent directed graphs. Networks, 2008, 52, 271-276.	1.6	2
108	Minimum cycle factors in quasi-transitive digraphs. Discrete Optimization, 2008, 5, 121-137.	0.6	2

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109	Finding an induced subdivision of a digraph. <i>Electronic Notes in Discrete Mathematics</i> , 2011, 37, 9-14.	0.4	2
110	Restricted cycle factors and arc-decompositions of digraphs. <i>Discrete Applied Mathematics</i> , 2015, 193, 80-93.	0.5	2
111	Balanced branchings in digraphs. <i>Theoretical Computer Science</i> , 2015, 595, 107-119.	0.5	2
112	Degree-constrained 2-partitions of graphs. <i>Theoretical Computer Science</i> , 2019, 776, 64-74.	0.5	2
113	Low chromatic spanning sub(di)graphs with prescribed degree or connectivity properties. <i>Journal of Graph Theory</i> , 0, , .	0.5	2
114	Digraphs and Variable Degeneracy. <i>SIAM Journal on Discrete Mathematics</i> , 2022, 36, 578-595.	0.4	2
115	Subgraphs in vertex neighborhoods of K_r -free graphs. <i>Journal of Graph Theory</i> , 2004, 47, 29-38.	0.5	1
116	k -strong spanning local tournaments in locally semicomplete digraphs. <i>Discrete Applied Mathematics</i> , 2009, 157, 2536-2540.	0.5	1
117	Heuristics for the central tree problem. <i>Journal of Heuristics</i> , 2010, 16, 633-651.	1.1	1
118	A computational investigation of heuristic algorithms for 2-edge-connectivity augmentation. <i>Networks</i> , 2010, 55, NA-NA.	1.6	1
119	The complexity of multicut and mixed multicut problems in (di)graphs. <i>Theoretical Computer Science</i> , 2014, 520, 87-96.	0.5	1
120	Arc-Disjoint Directed and Undirected Cycles in Digraphs. <i>Journal of Graph Theory</i> , 2016, 83, 406-420.	0.5	1
121	Degree constrained 2-partitions of semicomplete digraphs. <i>Theoretical Computer Science</i> , 2018, 746, 112-123.	0.5	1
122	The parameterized complexity landscape of finding 2-partitions of digraphs. <i>Theoretical Computer Science</i> , 2019, 795, 108-114.	0.5	1
123	On DP-coloring of digraphs. <i>Journal of Graph Theory</i> , 2020, 95, 76-98.	0.5	1
124	The directed 2-linkage problem with length constraints. <i>Theoretical Computer Science</i> , 2020, 814, 69-73.	0.5	1
125	Good orientations of unions of edge-disjoint spanning trees. <i>Journal of Graph Theory</i> , 2021, 96, 594-618.	0.5	1
126	Good acyclic orientations of 4 -regular 4 -connected graphs. <i>Journal of Graph Theory</i> , 2022, 100, 698-720.	0.5	1

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127	Problems concerning global connectivity of directed graphs. <i>Electronic Notes in Discrete Mathematics</i> , 2000, 5, 15-18.	0.4	0
128	Making a tournament k -arc-strong by reversing arcs. <i>Electronic Notes in Discrete Mathematics</i> , 2001, 8, 2-5.	0.4	0
129	Splitting off edges between two subsets preserving the edge-connectivity of the graph. <i>Discrete Mathematics</i> , 2004, 276, 5-28.	0.4	0
130	Finding well-balanced pairs of edge-disjoint trees in edge-weighted graphs. <i>Discrete Optimization</i> , 2007, 4, 334-348.	0.6	0
131	Partitioning the arcs of a digraph into a star forest of the underlying graph with prescribed orientation properties. <i>Theoretical Computer Science</i> , 2013, 475, 13-20.	0.5	0
132	Cycle Transversals in Tournaments with Few Vertex Disjoint Cycles. <i>Journal of Graph Theory</i> , 2015, 79, 249-266.	0.5	0
133	Branching in Digraphs with Many and Few Leaves: Structural and Algorithmic Results. <i>Springer Optimization and Its Applications</i> , 2018, , 93-106.	0.6	0
134	On the parameterized complexity of 2-partitions. <i>Theoretical Computer Science</i> , 2020, 844, 97-105.	0.5	0
135	Every $(13k \in \mathbb{N})$ -strong tournament with minimum out-degree at least $28k \in \mathbb{N}$ is k -linked. <i>Discrete Mathematics</i> , 2022, 345, 112831.	0.4	0
136	Complexity of some arc-partition problems for digraphs. <i>Theoretical Computer Science</i> , 2022, , .	0.5	0