

# Magns M Halldrsson

## List of Publications by Citations

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161  
papers

2,738  
citations

28  
h-index

47  
g-index

172  
ext. papers

3,117  
ext. citations

0.9  
avg, IF

5.34  
L-index

#	Paper	IF	Citations
161	Approximating maximum independent sets by excluding subgraphs. <i>BIT Numerical Mathematics</i> , <b>1992</b> , 32, 180-196	1.7	190
160	Greedy is good: Approximating independent sets in sparse and bounded-degree graphs. <i>Algorithmica</i> , <b>1997</b> , 18, 145-163	0.9	136
159	A still better performance guarantee for approximate graph coloring. <i>Information Processing Letters</i> , <b>1993</b> , 45, 19-23	0.8	120
158	Approximating the Domatic Number. <i>SIAM Journal on Computing</i> , <b>2002</b> , 32, 172-195	1.1	117
157	On Chromatic Sums and Distributed Resource Allocation. <i>Information and Computation</i> , <b>1998</b> , 140, 183-208		100
156	Approximating the tree and tour covers of a graph. <i>Information Processing Letters</i> , <b>1993</b> , 47, 275-282	0.8	87
155	Low-degree Graph Partitioning via Local Search with Applications to Constraint Satisfaction, Max Cut, and Coloring. <i>Journal of Graph Algorithms and Applications</i> , <b>1997</b> , 1, 1-13	1.5	87
154	Approximating the minimum maximal independence number. <i>Information Processing Letters</i> , <b>1993</b> , 46, 169-172	0.8	84
153	Scheduling Split Intervals. <i>SIAM Journal on Computing</i> , <b>2006</b> , 36, 1-15	1.1	80
152	Approximations of Weighted Independent Set and Hereditary Subset Problems. <i>Journal of Graph Algorithms and Applications</i> , <b>2000</b> , 4, 1-16	1.5	74
151	Greedy Local Improvement and Weighted Set Packing Approximation. <i>Journal of Algorithms</i> , <b>2001</b> , 39, 223-240		72
150	Coloring Powers of Planar Graphs. <i>SIAM Journal on Discrete Mathematics</i> , <b>2003</b> , 16, 651-662	0.7	61
149	Approximation algorithms for the test cover problem. <i>Mathematical Programming</i> , <b>2003</b> , 98, 477-491	2.1	60
148	Wireless Communication Is in APX. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 525-536	0.9	58
147	Wireless Capacity with Oblivious Power in General Metrics <b>2011</b> ,		56
146	Approximation Algorithms for Dispersion Problems. <i>Journal of Algorithms</i> , <b>2001</b> , 38, 438-465		45
145	Scheduling with conflicts: online and offline algorithms. <i>Journal of Scheduling</i> , <b>2009</b> , 12, 199-224	1.6	42

144	Algorithms for Wireless Capacity. <i>IEEE/ACM Transactions on Networking</i> , <b>2014</b> , 22, 745-755	3.8	40
143	Approximability results for stable marriage problems with ties. <i>Theoretical Computer Science</i> , <b>2003</b> , 306, 431-447	1.1	40
142	Sum Coloring Interval and k-Claw Free Graphs with Application to Scheduling Dependent Jobs. <i>Algorithmica</i> , <b>2003</b> , 37, 187-209	0.9	39
141	On the approximation of largest common subtrees and largest common point sets. <i>Theoretical Computer Science</i> , <b>2000</b> , 233, 33-50	1.1	39
140	Improved approximation results for the stable marriage problem. <i>ACM Transactions on Algorithms</i> , <b>2007</b> , 3, 30	1.2	36
139	Sum Multicoloring of Graphs. <i>Journal of Algorithms</i> , <b>2000</b> , 37, 422-450		36
138	Wireless Scheduling with Power Control. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 361-372	0.9	36
137	Wireless scheduling with power control. <i>ACM Transactions on Algorithms</i> , <b>2012</b> , 9, 1-20	1.2	33
136	Independent sets with domination constraints. <i>Discrete Applied Mathematics</i> , <b>2000</b> , 99, 39-54	1	32
135	Lower bounds for on-line graph coloring. <i>Theoretical Computer Science</i> , <b>1994</b> , 130, 163-174	1.1	31
134	Tools for Multicoloring with Applications to Planar Graphs and Partial k-Trees. <i>Journal of Algorithms</i> , <b>2002</b> , 42, 334-366		29
133	Towards tight bounds for local broadcasting <b>2012</b> ,		28
132	Minimizing interference of a wireless ad-hoc network in a plane. <i>Theoretical Computer Science</i> , <b>2008</b> , 402, 29-42	1.1	28
131	Approximations of independent sets in graphs. <i>Lecture Notes in Computer Science</i> , <b>1998</b> , 1-13	0.9	27
130	Nearly Optimal Bounds for Distributed Wireless Scheduling in the SINR Model. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 625-636	0.9	27
129	Wireless Connectivity and Capacity <b>2012</b> ,		25
128	Online independent sets. <i>Theoretical Computer Science</i> , <b>2002</b> , 289, 953-962	1.1	24
127	Randomized approximation of the stable marriage problem. <i>Theoretical Computer Science</i> , <b>2004</b> , 325, 439-465	1.1	23

126	Multicoloring trees. <i>Information and Computation</i> , <b>2003</b> , 180, 113-129	0.8	22
125	Approximating maximum independent sets by excluding subgraphs. <i>Lecture Notes in Computer Science</i> , <b>1990</b> , 13-25	0.9	21
124	Max point-tolerance graphs. <i>Discrete Applied Mathematics</i> , <b>2017</b> , 216, 84-97	1	20
123	Online Set Packing. <i>SIAM Journal on Computing</i> , <b>2012</b> , 41, 728-746	1.1	20
122	Approximation and parameterized algorithms for common subtrees and edit distance between unordered trees. <i>Theoretical Computer Science</i> , <b>2013</b> , 470, 10-22	1.1	19
121	Wireless capacity and admission control in cognitive radio <b>2012</b> ,		18
120	Improved bounds for scheduling conflicting jobs with minsum criteria. <i>ACM Transactions on Algorithms</i> , <b>2008</b> , 4, 1-20	1.2	16
119	Improved results for data migration and open shop scheduling. <i>ACM Transactions on Algorithms</i> , <b>2006</b> , 2, 116-129	1.2	16
118	How Well Can Graphs Represent Wireless Interference? <b>2015</b> ,		15
117	Approximation algorithms for the weighted independent set problem in sparse graphs. <i>Discrete Applied Mathematics</i> , <b>2009</b> , 157, 617-626	1	15
116	Distributed connectivity of wireless networks <b>2012</b> ,		14
115	The Power of Non-Uniform Wireless Power <b>2013</b> ,		14
114	On the Approximability of the Minimum Test Collection Problem. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 158-169	0.9	14
113	Parallel and On-Line Graph Coloring. <i>Journal of Algorithms</i> , <b>1997</b> , 23, 265-280		13
112	Strong Colorings of Hypergraphs. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 253-266	0.9	13
111	On the Impact of Identifiers on Local Decision. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 224-238	0.9	13
110	A Local Broadcast Layer for the SINR Network Model <b>2015</b> ,		12
109	Connectivity and aggregation in multihop wireless networks <b>2013</b> ,		12

108	Minimizing Interference of a Wireless Ad-Hoc Network in a Plane. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 71-82	0.9	12
107	Weighted Sum Coloring in Batch Scheduling of Conflicting Jobs. <i>Algorithmica</i> , <b>2009</b> , 55, 643-665	0.9	11
106	Streaming Algorithms for Independent Sets. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 641-652	0.9	11
105	Vertex coloring edge-weighted digraphs. <i>Information Processing Letters</i> , <b>2015</b> , 115, 791-796	0.8	10
104	Online set packing and competitive scheduling of multi-part tasks <b>2010</b> ,		10
103	Approximating the domatic number <b>2000</b> ,		10
102	Graphs Capturing Alternations in Words. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 436-437	0.9	10
101	Semi-transitive orientations and word-representable graphs. <i>Discrete Applied Mathematics</i> , <b>2016</b> , 201, 164-171	1	10
100	Approximation Algorithms for the Weighted Independent Set Problem. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 341-350	0.9	10
99	Beyond geometry <b>2014</b> ,		9
98	Dynamic Adaptation in Wireless Networks Under Comprehensive Interference via Carrier Sense <b>2017</b> ,		9
97	Independent sets in bounded-degree hypergraphs. <i>Discrete Applied Mathematics</i> , <b>2009</b> , 157, 1773-1786	1	9
96	A matched approximation bound for the sum of a greedy coloring. <i>Information Processing Letters</i> , <b>1999</b> , 71, 135-140	0.8	9
95	Multicoloring: Problems and Techniques. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 25-41	0.9	9
94	Streaming and Communication Complexity of Clique Approximation. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 449-460	0.9	9
93	Sum Multi-coloring of Graphs. <i>Lecture Notes in Computer Science</i> , <b>1999</b> , 390-401	0.9	9
92	Approximations of Weighted Independent Set and Hereditary Subset Problems. <i>Lecture Notes in Computer Science</i> , <b>1999</b> , 261-270	0.9	9
91	Leveraging Multiple Channels in Ad Hoc Networks <b>2015</b> ,		8

90	Nearly optimal bounds for distributed wireless scheduling in the SINR model. <i>Distributed Computing</i> , <b>2016</b> , 29, 77-88	1.2	8
89	A fully distributed algorithm for throughput performance in wireless networks <b>2012</b> ,		8
88	The effective size of the Icelandic population and the prospects for LD mapping: inference from unphased microsatellite markers. <i>European Journal of Human Genetics</i> , <b>2006</b> , 14, 1044-53	5.3	8
87	Approximations for the general block distribution of a matrix. <i>Theoretical Computer Science</i> , <b>2001</b> , 262, 145-160	1.1	8
86	Batch Coloring Flat Graphs and Thin. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 198-209	0.9	8
85	Powers of geometric intersection graphs and dispersion algorithms. <i>Discrete Applied Mathematics</i> , <b>2003</b> , 132, 3-16	1	7
84	Improved Bounds for Sum Multicoloring and Scheduling Dependent Jobs with Minsum Criteria. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 68-82	0.9	7
83	Improved approximations of independent sets in bounded-degree graphs. <i>Lecture Notes in Computer Science</i> , <b>1994</b> , 195-206	0.9	7
82	Distributed Backup Placement in Networks <b>2015</b> ,		6
81	Streaming Algorithms for Independent Sets in Sparse Hypergraphs. <i>Algorithmica</i> , <b>2016</b> , 76, 490-501	0.9	6
80	On spectrum sharing games. <i>Distributed Computing</i> , <b>2010</b> , 22, 235-248	1.2	6
79	Finding Subsets Maximizing Minimum Structures. <i>SIAM Journal on Discrete Mathematics</i> , <b>1999</b> , 12, 342-357	1.7	6
78	Alternation Graphs. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 191-202	0.9	6
77	Minimizing Average Completion of Dedicated Tasks and Interval Graphs. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 114-126	0.9	6
76	Shrinking Maxima, Decreasing Costs: New Online Packing and Covering Problems. <i>Algorithmica</i> , <b>2016</b> , 74, 1205-1223	0.9	5
75	Online Scheduling with Interval Conflicts. <i>Theory of Computing Systems</i> , <b>2013</b> , 53, 300-317	0.6	5
74	MOD-2 INDEPENDENCE AND DOMINATION IN GRAPHS. <i>International Journal of Foundations of Computer Science</i> , <b>2000</b> , 11, 355-363	0.6	5
73	Improved Results for Data Migration and Open Shop Scheduling. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 658-669	0.9	5

72	Space-Constrained Interval Selection. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 302-313	0.9	5
71	Distributed Algorithms for Coloring Interval Graphs. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 454-468	0.9	5
70	Online Selection of Intervals and t-Intervals. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 383-394	0.9	4
69	On the approximation of largest common subtrees and largest common point sets. <i>Lecture Notes in Computer Science</i> , <b>1994</b> , 405-413	0.9	4
68	On the complexity of the shortest-path broadcast problem. <i>Discrete Applied Mathematics</i> , <b>2016</b> , 199, 101-109	1	3
67	Computing large independent sets in a single round. <i>Distributed Computing</i> , <b>2018</b> , 31, 69-82	1.2	3
66	Distributed backup placement in networks. <i>Distributed Computing</i> , <b>2018</b> , 31, 83-98	1.2	3
65	The minimum vulnerability problem on specific graph classes. <i>Journal of Combinatorial Optimization</i> , <b>2016</b> , 32, 1288-1304	0.9	3
64	Wireless capacity with arbitrary gain matrix. <i>Theoretical Computer Science</i> , <b>2014</b> , 553, 57-63	1.1	3
63	The Power of Oblivious Wireless Power. <i>SIAM Journal on Computing</i> , <b>2017</b> , 46, 1062-1086	1.1	3
62	Approximating Steiner trees in graphs with restricted weights. <i>Networks</i> , <b>1998</b> , 31, 283-292	1.6	3
61	Rent-or-Buy Scheduling and Cost Coloring Problems. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 84-95	0.9	3
60	Independent sets with domination constraints. <i>Lecture Notes in Computer Science</i> , <b>1998</b> , 176-187	0.9	3
59	Distributed Minimum Degree Spanning Trees <b>2019</b> ,		3
58	Distributed Large Independent Sets in One Round on Bounded-Independence Graphs. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 559-572	0.9	3
57	Weighted Sum Coloring in Batch Scheduling of Conflicting Jobs. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 116-127	0.9	3
56	Multi-coloring Trees. <i>Lecture Notes in Computer Science</i> , <b>1999</b> , 271-280	0.9	3
55	Maximum MIMO Flow in wireless networks under the SINR model <b>2014</b> ,		2

54	Online selection of intervals and t-intervals. <i>Information and Computation</i> , <b>2013</b> , 233, 1-11	0.8	2
53	Wireless Link Capacity under Shadowing and Fading <b>2017</b> ,		2
52	Sum edge coloring of multigraphs via configuration LP. <i>ACM Transactions on Algorithms</i> , <b>2011</b> , 7, 1-21	1.2	2
51	Complete partitions of graphs. <i>Combinatorica</i> , <b>2007</b> , 27, 519-550	0.9	2
50	Approximating the L(h, k)-labelling problem. <i>International Journal of Mobile Network Design and Innovation</i> , <b>2006</b> , 1, 113	0.4	2
49	Approximation algorithms for optimization problems in graphs with superlogarithmic treewidth. <i>Information Processing Letters</i> , <b>2005</b> , 94, 49-53	0.8	2
48	Multicoloring Planar Graphs and Partial k-Trees. <i>Lecture Notes in Computer Science</i> , <b>1999</b> , 73-84	0.9	2
47	Space-Constrained Interval Selection. <i>ACM Transactions on Algorithms</i> , <b>2016</b> , 12, 1-32	1.2	2
46	Vertex coloring the square of outerplanar graphs of low degree. <i>Discussiones Mathematicae - Graph Theory</i> , <b>2010</b> , 30, 619	1.6	2
45	Leveraging Indirect Signaling for Topology Inference and Fast Broadcast <b>2018</b> ,		2
44	Simple and Local Independent Set Approximation. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 88-101	0.9	2
43	The Minimum Vulnerability Problem on Graphs. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 299-313	0.9	2
42	Radio Aggregation Scheduling. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 169-182	0.9	2
41	Wireless Capacity with Arbitrary Gain Matrix. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 215-224	0.9	2
40	Query-competitive sorting with uncertainty. <i>Theoretical Computer Science</i> , <b>2021</b> , 867, 50-67	1.1	2
39	Distributed approximation of k-service assignment. <i>Distributed Computing</i> , <b>2019</b> , 32, 27-40	1.2	2
38	Improved distributed algorithms for coloring interval graphs with application to multicoloring trees. <i>Theoretical Computer Science</i> , <b>2020</b> , 811, 29-41	1.1	2
37	Wireless Aggregation at Nearly Constant Rate <b>2018</b> ,		1



36	SDP-based algorithms for maximum independent set problems on hypergraphs. <i>Theoretical Computer Science</i> , <b>2013</b> , 470, 1-9	1.1	1
35	Extending wireless algorithm design to arbitrary environments via metricity <b>2014</b> ,		1
34	Online coloring of hypergraphs. <i>Information Processing Letters</i> , <b>2010</b> , 110, 370-372	0.8	1
33	Strongly simplicial vertices of powers of trees. <i>Discrete Mathematics</i> , <b>2007</b> , 307, 2647-2652	0.7	1
32	Plain SINR is Enough! <b>2019</b> ,		1
31	Improved Distributed Algorithms for Coloring Interval Graphs with Application to Multicoloring Trees. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 247-262	0.9	1
30	Proper Down-Coloring Simple Acyclic Digraphs. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 299-312	0.9	1
29	Return of the Boss Problem: Competing Online against a Non-adaptive Adversary. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 237-248	0.9	1
28	Wireless Network Stability in the SINR Model. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 123-134	0.9	1
27	Posimodular Function Optimization. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 437-448	0.9	1
26	Leader Election in SINR Model with Arbitrary Power Control. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 3-14	0.9	1
25	Shrinking Maxima, Decreasing Costs: New Online Packing and Covering Problems. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 158-172	0.9	1
24	Limitations of current wireless link scheduling algorithms. <i>Theoretical Computer Science</i> , <b>2020</b> , 840, 154-165		1
23	Sparse Backbone and Optimal Distributed SINR Algorithms. <i>ACM Transactions on Algorithms</i> , <b>2021</b> , 17, 1-34	1.2	1
22	Invited paper: Models for wireless algorithms <b>2016</b> ,		1
21	Local improvement algorithms for a path packing problem: A performance analysis based on linear programming. <i>Operations Research Letters</i> , <b>2021</b> , 49, 62-68	1	1
20	Computing inductive vertex orderings. <i>Information Processing Letters</i> , <b>2021</b> , 172, 106159	0.8	1
19	Wireless Network Algorithmics. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 141-160	0.9	0

18	Modeling Reality Algorithmically: The Case of Wireless Communication. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 1-5	0.9	0
17	Leader election in SINR model with arbitrary power control. <i>Theoretical Computer Science</i> , <b>2020</b> , 811, 21-28	1.1	0
16	Effective Wireless Scheduling via Hypergraph Sketches. <i>SIAM Journal on Computing</i> , <b>2021</b> , 50, 718-759	1.1	0
15	Radio aggregation scheduling. <i>Theoretical Computer Science</i> , <b>2020</b> , 840, 143-153	1.1	
14	Vertex coloring acyclic digraphs and their corresponding hypergraphs. <i>Discrete Applied Mathematics</i> , <b>2008</b> , 156, 1918-1928	1	
13	Parallel and on-line graph coloring algorithms. <i>Lecture Notes in Computer Science</i> , <b>1992</b> , 61-70	0.9	
12	Posimodular Function Optimization. <i>Algorithmica</i> , <b>2022</b> , 84, 1107	0.9	
11	Min Sum Edge Coloring in Multigraphs Via Configuration LP <b>2008</b> , 359-373		
10	Distributed Testing of Distance-k Colorings. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 275-290	0.9	
9	Approximations for the general block distribution of a matrix. <i>Lecture Notes in Computer Science</i> , <b>1998</b> , 47-58	0.9	
8	Progress (and Lack Thereof) for Graph Coloring Approximation Problems. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 14-23	0.9	
7	SDP-Based Algorithms for Maximum Independent Set Problems on Hypergraphs. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 12-23	0.9	
6	Simple and local independent set approximation. <i>Theoretical Computer Science</i> , <b>2020</b> , 846, 27-37	1.1	
5	Leveraging multiple channels in ad hoc networks. <i>Distributed Computing</i> , <b>2019</b> , 32, 159-172	1.2	
4	Generalized Disk Graphs. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 115-128	0.9	
3	Tight Bounds on Subexponential Time Approximation of Set Cover and Related Problems. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 159-173	0.9	
2	Network Design under General Wireless Interference. <i>Algorithmica</i> , 1	0.9	
1	Query minimization under stochastic uncertainty. <i>Theoretical Computer Science</i> , <b>2021</b> , 895, 75-75	1.1	

