

Stephen T Hedetniemi

List of Publications by Year in descending order

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57
papers

2,895
citations

257101

24
h-index

174990

52
g-index

59
all docs

59
docs citations

59
times ranked

954
citing authors

#	ARTICLE	IF	CITATIONS
1	A survey of gossiping and broadcasting in communication networks. <i>Networks</i> , 1988, 18, 319-349.	1.6	1,018
2	Roman domination in graphs. <i>Discrete Mathematics</i> , 2004, 278, 11-22.	0.4	326
3	Domination in Graphs Applied to Electric Power Networks. <i>SIAM Journal on Discrete Mathematics</i> , 2002, 15, 519-529.	0.4	249
4	Double Roman domination. <i>Discrete Applied Mathematics</i> , 2016, 211, 23-29.	0.5	112
5	Restrained domination in graphs. <i>Discrete Mathematics</i> , 1999, 203, 61-69.	0.4	104
6	Roman $\{2\}$ -domination in graphs. <i>Discrete Applied Mathematics</i> , 2016, 204, 22-28.	0.5	101
7	Defending the Roman Empire—A new strategy. <i>Discrete Mathematics</i> , 2003, 266, 239-251.	0.4	97
8	On $\{1, 2\}$ -degrees and $\{1, 2\}$ -degrees in graphs. <i>Discrete Mathematics</i> , 2017, 340, 31-38.	0.4	63
9	Global Defensive Alliances in Graphs. <i>Electronic Journal of Combinatorics</i> , 2003, 10, .	0.2	56
10	DISTANCE-TWO INFORMATION IN SELF-STABILIZING ALGORITHMS. <i>Parallel Processing Letters</i> , 2004, 14, 387-398.	0.4	54
11	Offensive alliances in graphs. <i>Discussiones Mathematicae - Graph Theory</i> , 2004, 24, 263.	0.2	47
12	Linear time self-stabilizing colorings. <i>Information Processing Letters</i> , 2003, 87, 251-255.	0.4	46
13	$[1, 2]$ -sets in graphs. <i>Discrete Applied Mathematics</i> , 2013, 161, 2885-2893.	0.5	41
14	Broadcasts in graphs. <i>Discrete Applied Mathematics</i> , 2006, 154, 59-75.	0.5	39
15	Maximal matching stabilizes in time $O(m)$. <i>Information Processing Letters</i> , 2001, 80, 221-223.	0.4	36
16	Generalized subgraph-restricted matchings in graphs. <i>Discrete Mathematics</i> , 2005, 293, 129-138.	0.4	35
17	Bounds on weak roman and 2-rainbow domination numbers. <i>Discrete Applied Mathematics</i> , 2014, 178, 27-32.	0.5	31
18	Vertex-edge domination in graphs. <i>Aequationes Mathematicae</i> , 2016, 90, 355-366.	0.4	31

#	ARTICLE	IF	CITATIONS
19	Security in graphs. Discrete Applied Mathematics, 2007, 155, 1708-1714.	0.5	29
20	$\hat{\beta}$ -graphs of graphs. Discussiones Mathematicae - Graph Theory, 2011, 31, 517.	0.2	29
21	Distance- k knowledge in self-stabilizing algorithms. Theoretical Computer Science, 2008, 399, 118-127.	0.5	28
22	k-Path partitions in trees. Discrete Applied Mathematics, 1997, 78, 227-233.	0.5	27
23	SELF-STABILIZING GRAPH PROTOCOLS. Parallel Processing Letters, 2008, 18, 189-199.	0.4	26
24	Powerful alliances in graphs. Discrete Mathematics, 2009, 309, 2140-2147.	0.4	26
25	On the equality of the partial Grundy and upper chromatic numbers of graphs. Discrete Mathematics, 2003, 272, 53-64.	0.4	24
26	A linear-time algorithm for broadcast domination in a tree. Networks, 2009, 53, 160-169.	1.6	19
27	On domination and reinforcement numbers in trees. Discrete Mathematics, 2008, 308, 1165-1175.	0.4	15
28	Domination and independence subdivision numbers of graphs. Discussiones Mathematicae - Graph Theory, 2000, 20, 271.	0.2	15
29	Nearly perfect sets in graphs. Discrete Mathematics, 1995, 138, 229-246.	0.4	13
30	An algorithm for partial Grundy number on trees. Discrete Mathematics, 2005, 304, 108-116.	0.4	13
31	Distance-k Information in Self-stabilizing Algorithms. Lecture Notes in Computer Science, 2006, , 349-356.	1.0	12
32	H-forming sets in graphs. Discrete Mathematics, 2003, 262, 159-169.	0.4	11
33	Self-Stabilizing Global Optimization Algorithms for Large Network Graphs. International Journal of Distributed Sensor Networks, 2005, 1, 329-344.	1.3	9
34	A self-stabilizing algorithm for optimally efficient sets in graphs. Information Processing Letters, 2012, 112, 621-623.	0.4	9
35	A Roman Domination Chain. Graphs and Combinatorics, 2016, 32, 79-92.	0.2	9
36	SELF-STABILIZING ALGORITHMS FOR ORDERINGS AND COLORINGS. International Journal of Foundations of Computer Science, 2005, 16, 19-36.	0.8	8

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37	Total irredundance in graphs. <i>Discrete Mathematics</i> , 2002, 256, 115-127.	0.4	7
38	A theorem of Ore and self-stabilizing algorithms for disjoint minimal dominating sets. <i>Theoretical Computer Science</i> , 2015, 593, 132-138.	0.5	7
39	Distribution centers in graphs. <i>Discrete Applied Mathematics</i> , 2018, 243, 186-193.	0.5	7
40	Iterated colorings of graphs. <i>Discrete Mathematics</i> , 2004, 278, 81-108.	0.4	6
41	Roman and Total Domination. <i>Quaestiones Mathematicae</i> , 2015, 38, 749-757.	0.2	6
42	Restricted optimal pebbling and domination in graphs. <i>Discrete Applied Mathematics</i> , 2017, 221, 46-53.	0.5	6
43	On perfect neighborhood sets in graphs. <i>Discrete Mathematics</i> , 1999, 199, 221-225.	0.4	5
44	SELF-STABILIZING ALGORITHMS FOR UNFRIENDLY PARTITIONS INTO TWO DISJOINT DOMINATING SETS. <i>Parallel Processing Letters</i> , 2013, 23, 1350001.	0.4	5
45	An Annotated Glossary of Graph Theory Parameters, with Conjectures. <i>Problem Books in Mathematics</i> , 2018, , 177-281.	0.1	5
46	A note on trees, tables, and algorithms. <i>Networks</i> , 2009, 53, 184-190.	1.6	4
47	Linear-Time Self-Stabilizing Algorithms for Disjoint Independent Sets. <i>Computer Journal</i> , 2013, 56, 1381-1387.	1.5	4
48	Bounds on cost effective domination numbers. <i>Quaestiones Mathematicae</i> , 2016, 39, 773-783.	0.2	4
49	Matchability and σ_2 . <i>Discrete Applied Mathematics</i> , 2016, 171, 1-10.	0.5	3
50	Very cost effective bipartitions in graphs. <i>AKCE International Journal of Graphs and Combinatorics</i> , 2015, 12, 155-160.	0.4	3
51	My Top 10 Graph Theory Conjectures and Open Problems. <i>Problem Books in Mathematics</i> , 2016, , 109-134.	0.1	3
52	Client-server and cost effective sets in graphs. <i>AKCE International Journal of Graphs and Combinatorics</i> , 2018, 15, 211-218.	0.4	3
53	SELF-STABILIZING MAXIMAL k-DEPENDENT SETS IN LINEAR TIME. <i>Parallel Processing Letters</i> , 2004, 14, 75-82.	0.4	2
54	Neighborhood-restricted σ_2 colorings. <i>Discrete Applied Mathematics</i> , 2016, 207, 39-44.	0.5	2

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55	Alliances and Related Domination Parameters. <i>Developments in Mathematics</i> , 2021, , 47-77.	0.2	1
56	Algorithms and Complexity of Alliances in Graphs. <i>Developments in Mathematics</i> , 2021, , 521-536.	0.2	1
57	The Private Neighbor Concept. <i>Developments in Mathematics</i> , 2021, , 183-218.	0.2	0