Janez Å½erovnik

List of Publications by Year
in descending order

82	716	471509 17	713466 21
papers	citations	h-index	g-index

88	88	88	298
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Algebraic approach to fasciagraphs and rotagraphs. Discrete Applied Mathematics, 1996, 68, 93-100.	0.9	31
2	On rainbow domination numbers of graphs. Information Sciences, 2014, 254, 225-234.	6.9	29
3	The obnoxious center problem on weighted cactus graphs. Discrete Applied Mathematics, 2004, 136, 377-386.	0.9	26
4	2-local -competitive algorithm for multicoloring hexagonal graphs. Journal of Algorithms, 2005, 55, 29-41.	0.9	26
5	Heuristics for NP-hard optimization problems - simpler is better!?. Logistics & Sustainable Transport, 2015, 6, 1-10.	1.5	24
6	An optimal message routing algorithm for circulant networks. Journal of Systems Architecture, 2006, 52, 298-306.	4.3	23
7	Roman Domination Number of the Cartesian Products of Paths and Cycles. Electronic Journal of Combinatorics, 2012, 19, .	0.4	23
8	Factoring cartesian-product graphs. Journal of Graph Theory, 1994, 18, 557-567.	0.9	22
9	Improved lower bound on the Shannon capacity of C7. Information Processing Letters, 2002, 81, 277-282.	0.6	20
10	2-local 5/4-competitive algorithm for multicoloring triangle-free hexagonal graphs. Information Processing Letters, 2004, 90, 239-246.	0.6	20
11	Recognizing Cartesian graph bundles. Discrete Mathematics, 1997, 167-168, 393-403.	0.7	19
12	Discharging Approach for Double Roman Domination in Graphs. IEEE Access, 2018, 6, 63345-63351.	4.2	19
13	Algorithm for recognizing Cartesian graph bundles. Discrete Applied Mathematics, 2002, 120, 275-302.	0.9	18
14	Fault-diameter of Cartesian graph bundles. Information Processing Letters, 2006, 100, 47-51.	0.6	18
15	Perfect codes in direct products of cyclesâ€”a complete characterization. Advances in Applied Mathematics, 2008, 41, 197-205.	0.7	18
16	Fast computation of the Wiener index of fasciagraphs and rotagraphs. Journal of Chemical Information and Computer Sciences, 1995, 35, 834-840.	2.8	17
17	On 2-rainbow domination of generalized Petersen graphs. Discrete Applied Mathematics, 2019, 257, 370-384.	0.9	17
18	Szeged Index of Symmetric Graphs. Journal of Chemical Information and Computer Sciences, 1999, 39, 77-80.	2.8	16

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19	A contribution to environmentally friendly winter road maintenance: Optimizing road de-icing. Transportation Research, Part D: Transport and Environment, 2008, 13, 340-346.	6.8	16
20	Finding a five bicolouring of a triangle-free subgraph of the triangular lattice. Discrete Mathematics, 2002, 244, 103-108.	0.7	15
21	An almost complete description of perfect codes in direct products of cycles. Advances in Applied Mathematics, 2006, 37, 2-18.	0.7	15
22	Independent Rainbow Domination of Graphs. Bulletin of the Malaysian Mathematical Sciences Society, 2019, 42, 417-435.	0.9	15
23	Deriving formulas for domination numbers of fasciagraphs and rotagraphs. Lecture Notes in Computer Science, 1999, , 559-568.	1.3	15
24	On recognizing Cartesian graph bundles. Discrete Mathematics, 2001, 233, 381-391.	0.7	11
25	Multiple Hungarian Method for k-Assignment Problem. Mathematics, 2020, 8, 2050.	2.2	11
26	The independence number of the strong product of odd cycles. Discrete Mathematics, 1998, 182, 333-336.	0.7	10
27	Permutation routing in double-loop networks: design and empirical evaluation. Journal of Systems Architecture, 2003, 48, 387-402.	4.3	10
28	The edge fault-diameter of Cartesian graph bundles. European Journal of Combinatorics, 2009, 30, 1054-1061.	0.8	10
29	On the weak reconstruction of Cartesian-product graphs. Discrete Mathematics, 1996, 150, 167-178.	0.7	9
30	Unique square property and fundamental factorizations of graph bundles. Discrete Mathematics, 2002, 244, 551-561.	0.7	9
31	Mixed fault diameter of Cartesian graph bundles. Discrete Applied Mathematics, 2013, 161, 1726-1733.	0.9	9
32	Weights on Edges of Chemical Graphs Determined by Paths. Journal of Chemical Information and Computer Sciences, 1994, 34, 395-397.	2.8	8
33	Distance-related invariants on polygraphs. Discrete Applied Mathematics, 1997, 80, 57-71.	0.9	8
34	The fault-diameter of Cartesian products. Advances in Applied Mathematics, 2008, 40, 98-106.	0.7	8
35	Edge, vertex and mixed fault diameters. Advances in Applied Mathematics, 2009, 43, 231-238.	0.7	8
36	Wide diameter of Cartesian graph bundles. Discrete Mathematics, 2010, 310, 1697-1701.	0.7	8

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37	Independent Rainbow Domination Numbers of Generalized Petersen Graphs P(n,2) and P(n,3). Mathematics, 2020, 8, 996.	2.2	8
38	A randomized algorithm for k-colorability. Discrete Mathematics, 1994, 131, 379-393.	0.7	7
39	Weak reconstruction of strong product graphs. Discrete Mathematics, 2007, 307, 641-649.	0.7	7
40	On domination numbers of graph bundles. Journal of Applied Mathematics and Computing, 2006, 22, 39-48.	2.5	6
41	Hamilton cycles in graph bundles over a cycle with tree as a fibre. Discrete Mathematics, 2009, 309, 5432-5436.	0.7	6
42	The 2-Rainbow Domination Numbers of $${oldsymbol{C}}_4Box {oldsymbol{C}}_n$$ C 4 â–¡ C n and $${oldsymbol{C}}_8Box {oldsymbol{C}}_n$$ C 8 â–¡ C n. The National Academy of Sciences, India, 2019, 42, 411-418.	1.3	6
43	Recognizing weighted directed cartesian graph bundles. Discussiones Mathematicae - Graph Theory, 2000, 20, 39.	0.3	6
44	Function fitting the symmetric radiation pattern of a LED with attached secondary optic. Optics Express, 2014, 22, 29587.	3.4	5
45	Double Roman Graphs in P(3k, k). Mathematics, 2021, 9, 336.	2.2	5
46	Double Roman Domination in Generalized Petersen Graphs P(ck, k). Symmetry, 2022, 14, 1121.	2.2	5
47	A counterexample to conjecture of Barefoot, Harary, and Jones. Graphs and Combinatorics, 1993, 9, 205-207.	0.4	4
48	Counterexamples to the uniform shortest path routing conjecture for vertex-transitive graphs. Discrete Applied Mathematics, 2002, 119, 281-286.	0.9	4
49	Behzad-Vizing conjecture and Cartesian product graphs. Electronic Notes in Discrete Mathematics, 2004, 17, 297-300.	0.4	4
50	Constructive heuristics for the canister filling problem. Central European Journal of Operations Research, 2011, 19, 371-389.	1.8	4
51	Elementary methods for computation of quartiles. Teaching Statistics, 2017, 39, 88-91.	0.9	4
52	A stochastic model for better planning of product flow in retail supply chains. Journal of the Operational Research Society, 2019, 70, 1900-1914.	3.4	4
53	Networks with Extremal Closeness. Fundamenta Informaticae, 2019, 167, 219-234.	0.4	4
54	More Results on the Domination Number of Cartesian Product of Two Directed Cycles. Mathematics, 2019, 7, 210.	2.2	4

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55	On 2-Rainbow Domination Number of Generalized Petersen Graphs P(5k,k). Symmetry, 2021, 13, 809.	2.2	4
56	On the linearK-arboricity of cubic graphs. International Journal of Computer Mathematics, 2000, 75, 431-444.	1.8	3
57	1-local 7/5-competitive Algorithm for Multicoloring Hexagonal Graphs. Electronic Notes in Discrete Mathematics, 2010, 36, 375-382.	0.4	3
58	2-local 7/6-competitive algorithm for multicolouring a sub-class of hexagonal graphs. International Journal of Computer Mathematics, 2010, 87, 2003-2013.	1.8	3
59	Simpler multicoloring of triangle-free hexagonal graphs. Discrete Mathematics, 2012, 312, 181-187.	0.7	3
60	Improved upper bounds for vertex and edge fault diameters of Cartesian graph bundles. Discrete Applied Mathematics, 2015, 181, 90-97.	0.9	3
61	On sufficient properties of sufficient matrices. Central European Journal of Operations Research, 2021, 29, 809-822.	1.8	3
62	Improved approximation of spatial light distribution. PLoS ONE, 2017, 12, e0176252.	2.5	3
63	On 3-Rainbow Domination Number of Generalized Petersen Graphs P(6k,k). Symmetry, 2021, 13, 1860.	2.2	3
64	1-Local 7/5-Competitive Algorithm for Multicoloring Hexagonal Graphs. Algorithmica, 2012, 64, 564-583.	1.3	2
65	Wide-diameter of Product Graphs. Fundamenta Informaticae, 2013, 125, 153-160.	0.4	2
66	Perfect codes in direct graph bundles. Information Processing Letters, 2015, 115, 707-711.	0.6	2
67	On the Double Roman Domination in Generalized Petersen Graphs P(5k,k). Mathematics, 2022, 10, 119.	2.2	2
68	Cyclic bundle Hamiltonicity. International Journal of Computer Mathematics, 2012, 89, 129-136.	1.8	1
69	An experimental comparison of some heuristics for cardinality constrained bin packing problem. Business Systems Research, 2012, 3, 57-63.	1.2	1
70	Editorial for. Business Systems Research, 2012, 3, 4-5.	1.2	1
71	A linear time algorithm for 7-[3]coloring triangle-free hexagonal graphs. Information Processing Letters, 2012, 112, 567-571.	0.6	1
72	Methodologies and applications for resilient global development from the aspect of SDI-SOR special issues of CJOR. Central European Journal of Operations Research, 2021, 29, 773-790.	1.8	1

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73	Distributed simulation of coloring graph vertices. ACM SIGSIM Simulation Digest, 1991, 21, 118-122.	0.1	0
74	(â„“, k)-ROUTING ON PLANE GRIDS. Journal of Interconnection Networks, 2009, 10, 27-57.	1.0	0
75	Modeling the Surfactant Uptake in Cross-Linked DNA Gels. Journal of Dispersion Science and Technology, 2009, 30, 954-960.	2.4	0
76	Editorial for the special issue: â€œNovel solutions or novel approaches in Operational Researchâ€. Business Systems Research, 2016, 7, 1-4.	1.2	0
77	Improving approximation by switching between two error functions. Croatian Operational Research Review, 2017, 8, 107-118.	0.4	0
78	Real forms of the complex Neumann system: A method for finding real roots of polynomial <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1616" altimg="si4.svg"><mml:mrow><mml:msub><mml:mrow><mml:mi>U</mml:mi></mml:mrow><mml:mrow><mml:mi mathvariant="script">S</mml:mi></mml:mrow></mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:mi>Î»</mml:mi><mml:mo>)</m Journal of Computational and Applied Mathematics, 2021, 390, 113362.	2.0	0
79	The Hosoya Polynomial of Double Weighted Graphs. , 0, , .		0
80	Robust optimisation metaheuristics for the inventory - allocation problem. Multiple Criteria Decision Making, 2019, 14, 128-143.	0.1	0
81	A new application of the generalized traveling salesman problem in industry 4.0 and 5.0. Multiple Criteria Decision Making, 2021, 16, 153-163.	0.1	0
82	Clustering as a dual problem to colouring. Computational and Applied Mathematics, 2022, 41, 1.	2.2	0