

# Zsolt Tuza

## List of Publications by Year in descending order

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111  
papers

1,369  
citations

430754

18  
h-index

395590

33  
g-index

113  
all docs

113  
docs citations

113  
times ranked

598  
citing authors

#	ARTICLE	IF	CITATIONS
1	Semi on-line algorithms for the partition problem. <i>Operations Research Letters</i> , 1997, 21, 235-242.	0.5	156
2	Covering all cliques of a graph. <i>Discrete Mathematics</i> , 1990, 86, 117-126.	0.4	117
3	Rankings of Graphs. <i>SIAM Journal on Discrete Mathematics</i> , 1998, 11, 168-181.	0.4	100
4	Improved lower bounds on $k$ -independence. <i>Journal of Graph Theory</i> , 1991, 15, 99-107.	0.5	61
5	Tight absolute bound for First Fit Decreasing bin-packing. <a href="http://www.w3.org/1998/Math/MathML">http://www.w3.org/1998/Math/MathML</a>  $\text{FFD}$		
6	Critical hypergraphs and intersecting set-pair systems. <i>Journal of Combinatorial Theory Series B</i> , 1985, 39, 134-145.	0.6	46
7	A conjecture on triangles of graphs. <i>Graphs and Combinatorics</i> , 1990, 6, 373-380.	0.2	38
8	The Chromatic Spectrum of Mixed Hypergraphs. <i>Graphs and Combinatorics</i> , 2002, 18, 309-318.	0.2	38
9	Transversals and domination in uniform hypergraphs. <i>European Journal of Combinatorics</i> , 2012, 33, 62-71.	0.5	38
10	An upper bound on the number of cliques in a graph. <i>Networks</i> , 1993, 23, 207-210.	1.6	37
11	Transversal Game on Hypergraphs and the $\frac{3}{4}$ -Conjecture on the Total Domination Game. <i>SIAM Journal on Discrete Mathematics</i> , 2016, 30, 1830-1847.	0.4	31
12	Uncolorable mixed hypergraphs. <i>Discrete Applied Mathematics</i> , 2000, 99, 209-227.	0.5	28
13	Rainbow subgraphs in properly edge-colored graphs. <i>Random Structures and Algorithms</i> , 1992, 3, 175-182.	0.6	26
14	On the Approximation of Finding A(nother) Hamiltonian Cycle in Cubic Hamiltonian Graphs. <i>Journal of Algorithms</i> , 1999, 31, 249-268.	0.9	21
15	Hypergraph domination and strong independence. <i>Applicable Analysis and Discrete Mathematics</i> , 2009, 3, 347-358.	0.3	20
16	Satisfactory graph partition, variants, and generalizations. <i>European Journal of Operational Research</i> , 2010, 206, 271-280.	3.5	20
17	Inequalities for two set systems with prescribed intersections. <i>Graphs and Combinatorics</i> , 1987, 3, 75-80.	0.2	19
18	Semi-On-line Scheduling on Two Parallel Processors with an Upper Bound on the Items. <i>Algorithmica</i> , 2003, 37, 243-262.	1.0	19

#	ARTICLE	IF	CITATIONS
19	Uniform Mixed Hypergraphs: The Possible Numbers of Colors. <i>Graphs and Combinatorics</i> , 2008, 24, 1-12.	0.2	19
20	Improved bounds for batch scheduling with nonidentical job sizes. <i>Naval Research Logistics</i> , 2014, 61, 351-358.	1.4	18
21	Subexponential-Time Algorithms for Maximum Independent Set in $P_t$ -Free and Broom-Free Graphs. <i>Algorithmica</i> , 2019, 81, 421-438.	1.0	18
22	Grundy dominating sequences and zero forcing sets. <i>Discrete Optimization</i> , 2017, 26, 66-77.	0.6	17
23	Safe sets in graphs: Graph classes and structural parameters. <i>Journal of Combinatorial Optimization</i> , 2018, 36, 1221-1242.	0.8	17
24	Semi-online scheduling on two uniform processors. <i>Theoretical Computer Science</i> , 2008, 393, 211-219.	0.5	16
25	Color-bounded hypergraphs, II: Interval hypergraphs and hypertrees. <i>Discrete Mathematics</i> , 2009, 309, 6391-6401.	0.4	16
26	Relaxations of Hall's Condition: Optimal batch codes with multiple queries. <i>Applicable Analysis and Discrete Mathematics</i> , 2012, 6, 72-81.	0.3	16
27	Equality of domination and transversal numbers in hypergraphs. <i>Discrete Applied Mathematics</i> , 2013, 161, 1859-1867.	0.5	14
28	Linear-Time Approximation Algorithms for the Max Cut Problem. <i>Combinatorics Probability and Computing</i> , 1993, 2, 201-210.	0.8	13
29	Bin packing with "Largest In Bottom" constraint: tighter bounds and generalizations. <i>Journal of Combinatorial Optimization</i> , 2013, 26, 416-436.	0.8	13
30	Online Results for Black and White Bin Packing. <i>Theory of Computing Systems</i> , 2015, 56, 137-155.	0.7	13
31	Two graph-colouring games. <i>Bulletin of the Australian Mathematical Society</i> , 1993, 48, 141-149.	0.3	12
32	A General Bin Packing Game: Interest Taken into Account. <i>Algorithmica</i> , 2018, 80, 1534-1555.	1.0	12
33	The variety of domination games. <i>Aequationes Mathematicae</i> , 2019, 93, 1085-1109.	0.4	12
34	The Disjoint Domination Game. <i>Discrete Mathematics</i> , 2016, 339, 1985-1992.	0.4	11
35	Bounds on the game transversal number in hypergraphs. <i>European Journal of Combinatorics</i> , 2017, 59, 34-50.	0.5	11
36	Safe sets, network majority on weighted trees. <i>Networks</i> , 2018, 71, 81-92.	1.6	11

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37	Total Transversals and Total Domination in Uniform Hypergraphs. Electronic Journal of Combinatorics, 2014, 21, .	0.2	11
38	Contractions and minimalk-colorability. Graphs and Combinatorics, 1990, 6, 51-59.	0.2	9
39	The acyclic orientation game on random graphs. Random Structures and Algorithms, 1995, 6, 261-268.	0.6	9
40	Semi on-line scheduling on three processors with known sum of the tasks. Journal of Scheduling, 2007, 10, 263-269.	1.3	9
41	Two uniform machines with nearly equal speeds: unified approach to known sum and known optimum in semi on-line scheduling. Journal of Combinatorial Optimization, 2011, 21, 458-480.	0.8	9
42	Network Majority on Tree Topological Network. Electronic Notes in Discrete Mathematics, 2016, 54, 79-84.	0.4	9
43	Cycle systems without 2-colorings. Journal of Combinatorial Designs, 1996, 4, 135-142.	0.3	8
44	Uniformly resolvable decompositions of $K_{v \times w}$ into $P_{3 \times h}$ and $h$ . Discrete Mathematics, 2014, 331, 137-141.	0.4	8
45	Induced cycles in triangle graphs. Discrete Applied Mathematics, 2016, 209, 264-275.	0.5	8
46	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
47	Restricted assignment scheduling with resource constraints. Theoretical Computer Science, 2019, 760, 72-87.	0.5	7
48	Upper chromatic number of finite projective planes. Journal of Combinatorial Designs, 2008, 16, 221-230.	0.3	6
49	Smallest Set-Transversals of $k$ -Partitions. Graphs and Combinatorics, 2009, 25, 807-816.	0.2	6
50	Coloring the cliques of line graphs. Discrete Mathematics, 2017, 340, 2641-2649.	0.4	6
51	Black and White Bin Packing. Lecture Notes in Computer Science, 2013, , 131-144.	1.0	6
52	Maximum number of colors: $C$ -coloring and related problems. Journal of Geometry, 2011, 101, 83-97.	0.1	5
53	THE GRAPH-BIN PACKING PROBLEM. International Journal of Foundations of Computer Science, 2011, 22, 1971-1993.	0.8	5
54	Offline black and white bin packing. Theoretical Computer Science, 2015, 596, 92-101.	0.5	5

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55	Maximum uniformly resolvable decompositions of $K_v$ and $K_v^*$ into 3-stars and 3-cycles. <i>Discrete Mathematics</i> , 2015, 338, 1667-1673.	0.4	5
56	Tight lower bounds for semi-online scheduling on two uniform machines with known optimum. <i>Central European Journal of Operations Research</i> , 2019, 27, 1107-1130.	1.1	5
57	Ç-perfect hypergraphs. <i>Journal of Graph Theory</i> , 2010, 64, 132-149.	0.5	4
58	Geometric representation for semi on-line scheduling on uniform processors. <i>Optimization Methods and Software</i> , 2010, 25, 421-428.	1.6	4
59	Colorability of mixed hypergraphs and their chromatic inversions. <i>Journal of Combinatorial Optimization</i> , 2013, 25, 737-751.	0.8	4
60	Bin covering with a general profit function: approximability results. <i>Central European Journal of Operations Research</i> , 2013, 21, 805-816.	1.1	4
61	On Specific Factors in Graphs. <i>Graphs and Combinatorics</i> , 2020, 36, 1391-1399.	0.2	4
62	Perfect Triangle Families. <i>Bulletin of the London Mathematical Society</i> , 1994, 26, 321-324.	0.4	3
63	Blocking Sets in $Q_n$ . <i>Combinatorics Probability and Computing</i> , 1994, 3, 77-86.	0.8	3
64	Optimal routings in communication networks with linearly bounded forwarding index. <i>Networks</i> , 1996, 28, 177-180.	1.6	3
65	Partition of $C_4$ -Designs into Minimum and Maximum Number of $P_3$ -Designs. <i>Graphs and Combinatorics</i> , 2004, 20, 531-540.	0.2	3
66	$[1,1,t]$ -Colorings of Complete Graphs. <i>Graphs and Combinatorics</i> , 2013, 29, 1041-1050.	0.2	3
67	Speeding up deciphering by hypergraph ordering. <i>Designs, Codes, and Cryptography</i> , 2015, 75, 175-185.	1.0	3
68	Circular coloring of graphs via linear programming and tabu search. <i>Central European Journal of Operations Research</i> , 2015, 23, 833-848.	1.1	3
69	Multiprocessor scheduling. <i>Discrete Applied Mathematics</i> , 2018, 234, 195-209.	0.5	3
70	Tight upper bounds for semi-online scheduling on two uniform machines with known optimum. <i>Central European Journal of Operations Research</i> , 2018, 26, 161-180.	1.1	3
71	Aspects of upper defensive alliances. <i>Discrete Applied Mathematics</i> , 2019, 266, 111-120.	0.5	3
72	Domination game on uniform hypergraphs. <i>Discrete Applied Mathematics</i> , 2019, 258, 65-75.	0.5	3

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73	Hypercycle Systems of 5-Cycles in Complete 3-Uniform Hypergraphs. Mathematics, 2021, 9, 484.	1.1	3
74	Generalized Line Graphs: Cartesian Products and Complexity of Recognition. Electronic Journal of Combinatorics, 2015, 22, .	0.2	3
75	Zero-sum block designs and graph labelings. Journal of Combinatorial Designs, 1995, 3, 89-99.	0.3	2
76	How to make a random graph irregular. Random Structures and Algorithms, 1995, 6, 323-329.	0.6	2
77	Schtttes Tournament Problem and Intersecting Families of Sets. Combinatorics Probability and Computing, 2003, 12, 359-364.	0.8	2
78	Bin Packing/Covering with Delivery, solved with the evolution of algorithms. , 2010, , .		2
79	Maximum number of colors in hypertrees of bounded degree. Central European Journal of Operations Research, 2015, 23, 867-876.	1.1	2
80	Graph labeling games. Electronic Notes in Discrete Mathematics, 2017, 60, 61-68.	0.4	2
81	The minimum number of vertices in uniform hypergraphs with given domination number. Discrete Mathematics, 2017, 340, 2704-2713.	0.4	2
82	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
83	Efficient Pre-Solve Algorithms for the Schwerin and Falkenauer_U Bin Packing Benchmark Problems for Getting Optimal Solutions with High Probability. Mathematics, 2021, 9, 1540.	1.1	2
84	Coloring Properties of Mixed Cycloids. Symmetry, 2021, 13, 1539.	1.1	2
85	Strong Edge Coloring of Cayley Graphs and Some Product Graphs. Graphs and Combinatorics, 2022, 38, 1.	0.2	2
86	Perfect graph decompositions. Graphs and Combinatorics, 1991, 7, 89-93.	0.2	1
87	List Colorings of $K_5$ -Minor-Free Graphs With Special List Assignments. Journal of Graph Theory, 2012, 71, 18-30.	0.5	1
88	A combinatorial problem related to sparse systems of equations. Designs, Codes, and Cryptography, 2017, 85, 129-144.	1.0	1
89	Disjoint Paired-Dominating sets in Cubic Graphs. Graphs and Combinatorics, 2019, 35, 1129-1138.	0.2	1
90	The $k$ -path vertex cover: General bounds and chordal graphs. Networks, 0, , .	1.6	1

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91	Realization of digraphs in Abelian groups and its consequences. <i>Journal of Graph Theory</i> , 2022, 100, 331-345.	0.5	1
92	Langford strings are square-free. <i>International Journal of Computer Mathematics</i> , 1989, 29, 75-78.	1.0	0
93	Minimally Non-Preperfect Graphs of Small Maximum Degree. <i>Graphs and Combinatorics</i> , 2001, 17, 759-773.	0.2	0
94	Lower bound on the profile of degree pairs in cross-intersecting set systems. <i>Combinatorica</i> , 2007, 27, 399-405.	0.6	0
95	Learning of winning strategies for terminal games with linear-size memory. <i>International Journal of Game Theory</i> , 2009, 38, 155-168.	0.5	0
96	Minimum order of graphs with given coloring parameters. <i>Discrete Mathematics</i> , 2015, 338, 621-632.	0.4	0
97	Induced Decompositions of Highly Dense Graphs. <i>Journal of Graph Theory</i> , 2015, 78, 97-107.	0.5	0
98	Orientations of Graphs with Prescribed Weighted Out-Degrees. <i>Graphs and Combinatorics</i> , 2015, 31, 265-280.	0.2	0
99	A note on the polytope of bipartite TSP. <i>Discrete Applied Mathematics</i> , 2018, 235, 92-100.	0.5	0
100	Finding a potential community in networks. <i>Theoretical Computer Science</i> , 2019, 769, 32-42.	0.5	0
101	On caterpillar factors in graphs. <i>Theoretical Computer Science</i> , 2020, 846, 82-90.	0.5	0
102	Clique coverings and claw-free graphs. <i>European Journal of Combinatorics</i> , 2020, 88, 103114.	0.5	0
103	Independent $(k+1)$ -domination in $k$ -trees. <i>Discrete Applied Mathematics</i> , 2020, 284, 99-110.	0.5	0
104	Comparison of sum choice number with chromatic sum. <i>Discrete Mathematics</i> , 2021, 344, 112391.	0.4	0
105	Transversal designs and induced decompositions of graphs. <i>Electronic Journal of Combinatorics</i> , 2016, 7, 257-269.	0.1	0
106	The equal-sum-free subset problem. <i>Acta Scientiarum Mathematicarum</i> , 2020, 86, 73-79.	0.2	0
107	Guillotine cutting is asymptotically optimal for packing consecutive squares. <i>Optimization Letters</i> , 0, , 1.	0.9	0
108	Distance Domination in Vertex Partitioned Graphs. <i>Mathematica Pannonica</i> , 2022, , .	0.2	0

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109	Saturation problems with regularity constraints. <i>Discrete Mathematics</i> , 2022, 345, 112921.	0.4	0
110	The bin covering with delivery problem, extended investigations for the online case. <i>Central European Journal of Operations Research</i> , 0, , 1.	1.1	0
111	Connected domination in random graphs. <i>Indian Journal of Pure and Applied Mathematics</i> , 0, , .	0.3	0