Ignaz Rutter

List of Publications by Year in descending order

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		777949	889612
108	742	13	19
papers	citations	h-index	g-index
121	121	121	329
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Inserting an edge into a geometric embedding. Computational Geometry: Theory and Applications, 2022, 102, 101843.	0.3	О
2	Simple algorithms for partial and simultaneous rectangular duals with given contact orientations. Theoretical Computer Science, 2022, , .	0.5	0
3	Simultaneous FPQ-ordering and hybrid planarity testing. Theoretical Computer Science, 2021, 874, 59-79.	0.5	4
4	Simple k-planar graphs are simple (k + 1)-quasiplanar. Journal of Combinatorial Theory Series B, 2020, 142, 1-35.	0.6	11
5	Beyond level planarity: Cyclic, torus, and simultaneous level planarity. Theoretical Computer Science, 2020, 804, 161-170.	0.5	5
6	Vulnerability in Social Epistemic Networks. International Journal of Philosophical Studies, 2020, 28, 731-753.	0.2	20
7	Towards a Characterization of Stretchable Aligned Graphs. Lecture Notes in Computer Science, 2020, , 295-307.	1.0	0
8	Simultaneous Embedding. , 2020, , 237-265.		3
9	Simultaneous FPQ-Ordering and Hybrid Planarity Testing. Lecture Notes in Computer Science, 2020, , 617-626.	1.0	2
10	An Integer-Linear Program for Bend-Minimization in Ortho-Radial Drawings. Lecture Notes in Computer Science, 2020, , 235-249.	1.0	4
11	Drawing Clustered Planar Graphs on Disk Arrangements. Journal of Graph Algorithms and Applications, 2020, 24, 105-131.	0.4	0
12	On Turn-Regular Orthogonal Representations. Lecture Notes in Computer Science, 2020, , 250-264.	1.0	2
13	Extending Partial Orthogonal Drawings. Lecture Notes in Computer Science, 2020, , 265-278.	1.0	2
14	Reaching 3-Connectivity via Edge-Edge Additions. Lecture Notes in Computer Science, 2019, , 175-187.	1.0	0
15	Geometric Heuristics for Rectilinear Crossing Minimization. Journal of Experimental Algorithmics, 2019, 24, 1-21.	0.7	2
16	Minimizing Bias in Estimation of Mutual Information from Data Streams. , 2019, , .		0
17	NodeTrix Planarity Testing with Small Clusters. Algorithmica, 2019, 81, 3464-3493.	1.0	11
18	Planarity of streamed graphs. Theoretical Computer Science, 2019, 799, 1-21.	0.5	5

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19	Drawing Clustered Graphs on Disk Arrangements. Lecture Notes in Computer Science, 2019, , 160-171.	1.0	О
20	How to Draw a Planarization. Journal of Graph Algorithms and Applications, 2019, 23, 653-682.	0.4	0
21	Graph Drawing Contest Report. Lecture Notes in Computer Science, 2019, , 575-583.	1.0	O
22	An SPQR-Tree-Like Embedding Representation for Upward Planarity. Lecture Notes in Computer Science, 2019, , 517-531.	1.0	2
23	Linear-time recognition of map graphs with outerplanar witness. Discrete Optimization, 2018, 28, 63-77.	0.6	5
24	Simultaneous Embedding: Edge Orderings, Relative Positions, Cutvertices. Algorithmica, 2018, 80, 1214-1277.	1.0	8
25	A Geometric Heuristic for Rectilinear Crossing Minimization. , 2018, , 129-138.		8
26	Windrose Planarity. ACM Transactions on Algorithms, 2018, 14, 1-24.	0.9	7
27	Gap-planar graphs. Theoretical Computer Science, 2018, 745, 36-52.	0.5	24
28	The Maximum Transmission Switching Flow Problem. , 2018, , .		3
29	Gap-Planar Graphs. Lecture Notes in Computer Science, 2018, , 531-545.	1.0	2
30	Aligned Drawings of Planar Graphs. Journal of Graph Algorithms and Applications, 2018, 22, 401-429.	0.4	2
31	Graph Drawing Contest Report. Lecture Notes in Computer Science, 2018, , 575-582.	1.0	3
32	Graph Drawing Contest Report. Lecture Notes in Computer Science, 2018, , 609-617.	1.0	1
33	Level Planarity: Transitivity vs. Even Crossings. Lecture Notes in Computer Science, 2018, , 39-52.	1.0	2
34	Inserting an Edge into a Geometric Embedding. Lecture Notes in Computer Science, 2018, , 402-415.	1.0	2
35	Extending Partial Representations of Proper and Unit Interval Graphs. Algorithmica, 2017, 77, 1071-1104.	1.0	15
36	Partial and Constrained Level Planarity. , 2017, , .		12

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37	A Simulated-Annealing-Based Approach for Wind Farm Cabling. , 2017, , .		10
38	Radial contour labeling with straight leaders. , 2017, , .		4
39	Partitioning Graph Drawings and Triangulated Simple Polygons into Greedily Routable Regions. International Journal of Computational Geometry and Applications, 2017, 27, 121-158.	0.3	3
40	How to Draw a Planarization. Lecture Notes in Computer Science, 2017, , 295-308.	1.0	4
41	On the Relationship Between k-Planar and k-Quasi-Planar Graphs. Lecture Notes in Computer Science, 2017, , 59-74.	1.0	7
42	Intersection-Link Representations of Graphs. Journal of Graph Algorithms and Applications, 2017, 21, 731-755.	0.4	23
43	Orthogonal graph drawing with inflexible edges. Computational Geometry: Theory and Applications, 2016, 55, 26-40.	0.3	12
44	Extending Convex Partial Drawings of Graphs. Algorithmica, 2016, 76, 47-67.	1.0	12
45	Multi-sided Boundary Labeling. Algorithmica, 2016, 76, 225-258.	1.0	15
46	A new perspective on clustered planarity as a combinatorial embedding problem. Theoretical Computer Science, 2016, 609, 306-315.	0.5	16
47	Search-space size in contraction hierarchies. Theoretical Computer Science, 2016, 645, 112-127.	0.5	14
48	Optimal Orthogonal Graph Drawing with Convex Bend Costs. ACM Transactions on Algorithms, 2016, 12, 1-32.	0.9	7
49	Evaluation of Labeling Strategies for Rotating Maps. Journal of Experimental Algorithmics, 2016, 21, 1-21.	0.7	10
50	Beyond Level Planarity. Lecture Notes in Computer Science, 2016, , 482-495.	1.0	9
51	Simultaneous Orthogonal Planarity. Lecture Notes in Computer Science, 2016, , 532-545.	1.0	7
52	Simultaneous PQ-Ordering with Applications to Constrained Embedding Problems. ACM Transactions on Algorithms, 2016, 12, 1-46.	0.9	28
53	Graph Drawing Contest Report. Lecture Notes in Computer Science, 2016, , 589-595.	1.0	0
54	Disconnectivity and relative positions in simultaneous embeddings. Computational Geometry: Theory and Applications, 2015, 48, 459-478.	0.3	11

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55	Regular Augmentation of Planar Graphs. Algorithmica, 2015, 73, 306-370.	1.0	2
56	Testing Planarity of Partially Embedded Graphs. ACM Transactions on Algorithms, 2015, 11, 1-42.	0.9	28
57	Online dynamic power management with hard real-time guarantees. Theoretical Computer Science, 2015, 595, 46-64.	0.5	7
58	Operating Power Grids with Few Flow Control Buses. , 2015, , .		7
59	Planarity of Streamed Graphs. Lecture Notes in Computer Science, 2015, , 153-166.	1.0	4
60	Many-to-One Boundary Labeling with Backbones. Journal of Graph Algorithms and Applications, 2015, 19, 779-816.	0.4	11
61	Pixel and Voxel Representations of Graphs. Lecture Notes in Computer Science, 2015, , 472-486.	1.0	4
62	Optimal Shuffle Code with Permutation Instructions. Lecture Notes in Computer Science, 2015, , 528-541.	1.0	0
63	Graph Drawing Contest Report. Lecture Notes in Computer Science, 2015, , 531-537.	1.0	1
64	Partitioning Graph Drawings and Triangulated Simple Polygons into Greedily Routable Regions. Lecture Notes in Computer Science, 2015, , 637-649.	1.0	0
65	TESTING MUTUAL DUALITY OF PLANAR GRAPHS. International Journal of Computational Geometry and Applications, 2014, 24, 325-346.	0.3	2
66	Extending Partial Representations of Proper and Unit Interval Graphs. Lecture Notes in Computer Science, 2014, , 253-264.	1.0	5
67	Orthogonal Graph Drawing with Flexibility Constraints. Algorithmica, 2014, 68, 859-885.	1.0	17
68	On d-regular schematization of embedded paths. Computational Geometry: Theory and Applications, 2014, 47, 381-406.	0.3	9
69	Complexity of Higher-Degree Orthogonal Graph Embedding in the Kandinsky Model. Lecture Notes in Computer Science, 2014, , 161-172.	1.0	13
70	Generalizing Geometric Graphs. Journal of Graph Algorithms and Applications, 2014, 18, 35-76.	0.4	2
71	A New Perspective on Clustered Planarity as a Combinatorial Embedding Problem. Lecture Notes in Computer Science, 2014, , 440-451.	1.0	1
72	On Self-Approaching and Increasing-Chord Drawings of 3-Connected Planar Graphs. Lecture Notes in Computer Science, 2014, , 476-487.	1.0	4

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73	Column-Based Graph Layouts. Journal of Graph Algorithms and Applications, 2014, 18, 677-708.	0.4	2
74	Drawing Simultaneously Embedded Graphs with Few Bends. Lecture Notes in Computer Science, 2014, , 40-51.	1.0	4
75	The density maximization problem in graphs. Journal of Combinatorial Optimization, 2013, 26, 723-754.	0.8	1
76	A Kuratowski-type theorem for planarity of partially embedded graphs. Computational Geometry: Theory and Applications, 2013, 46, 466-492.	0.3	26
77	Fork-forests in bi-colored complete bipartite graphs. Discrete Applied Mathematics, 2013, 161, 1363-1366.	0.5	0
78	Search-Space Size in Contraction Hierarchies. Lecture Notes in Computer Science, 2013, , 93-104.	1.0	19
79	Simultaneous Embedding: Edge Orderings, Relative Positions, Cutvertices. Lecture Notes in Computer Science, 2013, , 220-231.	1.0	5
80	Drawing Planar Graphs with a Prescribed Inner Face. Lecture Notes in Computer Science, 2013, , 316-327.	1.0	4
81	Column-Based Graph Layouts. Lecture Notes in Computer Science, 2013, , 236-247.	1.0	1
82	Disconnectivity and Relative Positions in Simultaneous Embeddings. Lecture Notes in Computer Science, 2013, , 31-42.	1.0	4
83	Two-Sided Boundary Labeling with Adjacent Sides. Lecture Notes in Computer Science, 2013, , 463-474.	1.0	6
84	Simultaneous PQ-Ordering with Applications to Constrained Embedding Problems. , 2013, , .		11
85	Edge-weighted contact representations of planar graphs. Journal of Graph Algorithms and Applications, 2013, 17, 441-473.	0.4	4
86	Testing Mutual Duality of Planar Graphs. Lecture Notes in Computer Science, 2013, , 350-360.	1.0	1
87	Optimal Orthogonal Graph Drawing with Convex Bend Costs. Lecture Notes in Computer Science, 2013, , 184-195.	1.0	4
88	On the Complexity of Partitioning Graphs for Arc-Flags. Journal of Graph Algorithms and Applications, 2013, 17, 265-299.	0.4	1
89	An algorithmic study of switch graphs. Acta Informatica, 2012, 49, 295-312.	0.5	3
90	Hamiltonian orthogeodesic alternating paths. Journal of Discrete Algorithms, 2012, 16, 34-52.	0.7	8

#	Article	IF	CITATIONS
91	Testing the simultaneous embeddability of two graphs whose intersection is a biconnected or a connected graph. Journal of Discrete Algorithms, 2012, 14, 150-172.	0.7	35
92	Augmenting the Connectivity of Planar and Geometric Graphs. Journal of Graph Algorithms and Applications, 2012, 16, 599-628.	0.4	14
93	Cubic Augmentation of Planar Graphs. Lecture Notes in Computer Science, 2012, , 402-412.	1.0	0
94	Generalizing Geometric Graphs. Lecture Notes in Computer Science, 2012, , 179-190.	1.0	2
95	Computing large matchings in planar graphs with fixed minimum degree. Theoretical Computer Science, 2011, 412, 4092-4099.	0.5	2
96	A kuratowski-type theorem for planarity of partially embedded graphs. , 2011, , .		2
97	On d-Regular Schematization of Embedded Paths. Lecture Notes in Computer Science, 2011, , 260-271.	1.0	3
98	Hamiltonian Orthogeodesic Alternating Paths. Lecture Notes in Computer Science, 2011, , 170-181.	1.0	2
99	Automatic Generation of Route Sketches. Lecture Notes in Computer Science, 2011, , 391-392.	1.0	0
100	Orthogonal Graph Drawing with Flexibility Constraints. Lecture Notes in Computer Science, 2011, , 92-104.	1.0	0
101	Testing the Simultaneous Embeddability of Two Graphs Whose Intersection Is a Biconnected Graph or a Tree. Lecture Notes in Computer Science, 2011, , 212-225.	1.0	4
102	The Density Maximization Problem in Graphs. Lecture Notes in Computer Science, 2011, , 25-36.	1.0	0
103	Computing large matchings fast. ACM Transactions on Algorithms, 2010, 7, 1-21.	0.9	5
104	Manhattan-Geodesic Embedding of Planar Graphs. Lecture Notes in Computer Science, 2010, , 207-218.	1.0	22
105	Testing Planarity of Partially Embedded Graphs. , 2010, , .		24
106	Gateway Decompositions for Constrained Reachability Problems. Lecture Notes in Computer Science, 2010, , 449-461.	1.0	0
107	Computing Large Matchings in Planar Graphs with Fixed Minimum Degree. Lecture Notes in Computer Science, 2009, , 872-881.	1.0	0
108	Augmenting the Connectivity of Planar and Geometric Graphs. Electronic Notes in Discrete Mathematics, 2008, 31, 53-56.	0.4	13