

Stefan Felsner

List of Publications by Year in descending order

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83
papers

1,139
citations

471509

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h-index

477307

29
g-index

85
all docs

85
docs citations

85
times ranked

435
citing authors

#	ARTICLE	IF	CITATIONS
1	Trapezoid graphs and generalizations, geometry and algorithms. Discrete Applied Mathematics, 1997, 74, 13-32.	0.9	78
2	Convex Drawings of Planar Graphs and the Order Dimension of 3-Polytopes. Order, 2001, 18, 19-37.	0.5	75
3	Geometric Graphs and Arrangements. Advanced Lectures in Mathematics, 2004, , .	1.3	61
4	Lattice Structures from Planar Graphs. Electronic Journal of Combinatorics, 2004, 11, .	0.4	59
5	Convex Drawings of 3-Connected Plane Graphs. Algorithmica, 2007, 47, 399-420.	1.3	47
6	Bijections for Baxter families and related objects. Journal of Combinatorial Theory - Series A, 2011, 118, 993-1020.	0.8	46
7	Recognition Algorithms for Orders of Small Width and Graphs of Small Dilworth Number. Order, 2003, 20, 351-364.	0.5	41
8	Computing Cartograms with Optimal Complexity. Discrete and Computational Geometry, 2013, 50, 784-810.	0.6	35
9	Rectangle and Square Representations of Planar Graphs. , 2013, , 213-248.		34
10	Max point-tolerance graphs. Discrete Applied Mathematics, 2017, 216, 84-97.	0.9	29
11	Schnyder Woods and Orthogonal Surfaces. Discrete and Computational Geometry, 2008, 40, 103-126.	0.6	28
12	Distributive lattices, polyhedra, and generalized flows. European Journal of Combinatorics, 2011, 32, 45-59.	0.8	26
13	Geodesic Embeddings and Planar Graphs. Order, 2003, 20, 135-150.	0.5	25
14	Tolerance graphs, and orders. Journal of Graph Theory, 1998, 28, 129-140.	0.9	24
15	On-line chain partitions of orders. Theoretical Computer Science, 1997, 175, 283-292.	0.9	23
16	Dimension, Graph and Hypergraph Coloring. Order, 2000, 17, 167-177.	0.5	22
17	Sweeps, arrangements and signotopes. Discrete Applied Mathematics, 2001, 109, 67-94.	0.9	21
18	Approximating hitting sets of axis-parallel rectangles intersecting a monotone curve. Computational Geometry: Theory and Applications, 2013, 46, 1036-1041.	0.5	21

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19	Coding and Counting Arrangements of Pseudolines. <i>Discrete and Computational Geometry</i> , 2011, 46, 405-416.	0.6	19
20	Adjacency posets of planar graphs. <i>Discrete Mathematics</i> , 2010, 310, 1097-1104.	0.7	18
21	Colorings of diagrams of interval orders and \hat{L} -sequences of sets. <i>Discrete Mathematics</i> , 1995, 144, 23-31.	0.7	17
22	ULD-Lattices and \hat{L} -Bonds. <i>Combinatorics Probability and Computing</i> , 2009, 18, 707-724.	1.3	17
23	On-Line Chain Partitions of Orders: A Survey. <i>Order</i> , 2012, 29, 49-73.	0.5	17
24	Intersection graphs of L-shapes and segments in the plane. <i>Discrete Applied Mathematics</i> , 2016, 206, 48-55.	0.9	17
25	On the Number of Planar Orientations with Prescribed Degrees. <i>Electronic Journal of Combinatorics</i> , 2008, 15, .	0.4	17
26	The Dimension of Posets with Planar Cover Graphs. <i>Graphs and Combinatorics</i> , 2015, 31, 927-939.	0.4	16
27	A $3/2$ -approximation algorithm for the jump number of interval orders. <i>Order</i> , 1990, 6, 325-334.	0.5	15
28	Maximum k -Chains in Planar Point Sets: Combinatorial Structure and Algorithms. <i>SIAM Journal on Computing</i> , 1998, 28, 192-209.	1.0	15
29	Zonotopes associated with higher Bruhat orders. <i>Discrete Mathematics</i> , 2001, 241, 301-312.	0.7	15
30	Parameters of Bar k -Visibility Graphs. <i>Journal of Graph Algorithms and Applications</i> , 2008, 12, 5-27.	0.4	15
31	Finite three dimensional partial orders which are not sphere orders. <i>Discrete Mathematics</i> , 1999, 201, 101-132.	0.7	14
32	Computing cartograms with optimal complexity. , 2012, , .		14
33	The maximum number of edges in a graph of bounded dimension, with applications to ring theory. <i>Discrete Mathematics</i> , 1999, 201, 5-19.	0.7	13
34	Posets and planar graphs. <i>Journal of Graph Theory</i> , 2005, 49, 273-284.	0.9	12
35	On the fractional dimension of partially ordered sets. <i>Discrete Mathematics</i> , 1994, 136, 101-117.	0.7	11
36	The Linear Extension Diameter of a Poset. <i>SIAM Journal on Discrete Mathematics</i> , 1999, 12, 360-373.	0.8	11

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37	Hamiltonicity and colorings of arrangement graphs. <i>Discrete Applied Mathematics</i> , 2006, 154, 2470-2483.	0.9	10
38	Grid Intersection Graphs and Order Dimension. <i>Order</i> , 2018, 35, 363-391.	0.5	10
39	3-Interval irreducible partially ordered sets. <i>Order</i> , 1994, 11, 97-125.	0.5	8
40	Proportional Contact Representations of Planar Graphs. <i>Lecture Notes in Computer Science</i> , 2012, , 26-38.	1.3	8
41	Exploiting Air-Pressure to Map Floorplans on Point Sets. <i>Journal of Graph Algorithms and Applications</i> , 2014, 18, 233-252.	0.4	8
42	Interval Reductions and Extensions of Orders: Bijections to Chains in Lattices. <i>Order</i> , 1998, 15, 221-246.	0.5	7
43	Linear-Time Algorithms for Hole-free Rectilinear Proportional Contact Graph Representations. <i>Algorithmica</i> , 2013, 67, 3-22.	1.3	7
44	Bend-optimal orthogonal graph drawing in the general position model. <i>Computational Geometry: Theory and Applications</i> , 2014, 47, 460-468.	0.5	7
45	Table cartogram. <i>Computational Geometry: Theory and Applications</i> , 2018, 68, 174-185.	0.5	7
46	On-Line Dimension for Posets Excluding Two Long Incomparable Chains. <i>Order</i> , 2013, 30, 1-12.	0.5	6
47	Linear-Time Algorithms for Hole-Free Rectilinear Proportional Contact Graph Representations. <i>Lecture Notes in Computer Science</i> , 2011, , 281-291.	1.3	6
48	Vertex Contact Representations of Paths on a Grid. <i>Journal of Graph Algorithms and Applications</i> , 2015, 19, 817-849.	0.4	6
49	Grid Orientations, $(d, d + 2)$ -Polytopes, and Arrangements of Pseudolines. <i>Discrete and Computational Geometry</i> , 2005, 34, 411-437.	0.6	5
50	Orthogonal Surfaces and Their CP-Orders. <i>Order</i> , 2008, 25, 19-47.	0.5	5
51	Arrangements of Pseudocircles: On Circularizability. <i>Discrete and Computational Geometry</i> , 2020, 64, 776-813.	0.6	5
52	On the Complexity of Partial Order Properties. <i>Order</i> , 2000, 17, 179-193.	0.5	4
53	Linear Extension Diameter of Downset Lattices of Two-Dimensional Posets. <i>SIAM Journal on Discrete Mathematics</i> , 2011, 25, 112-129.	0.8	4
54	On the Order Dimension of Outerplanar Maps. <i>Order</i> , 2011, 28, 415-435.	0.5	4

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55	The Order Dimension of Planar Maps Revisited. <i>SIAM Journal on Discrete Mathematics</i> , 2014, 28, 1093-1101.	0.8	4
56	Arrangements of Pseudocircles: Triangles and Drawings. <i>Discrete and Computational Geometry</i> , 2021, 65, 261-278.	0.6	4
57	Improved Bounds for Centered Colorings. <i>Advances in Combinatorics</i> , 0, , .	0.0	4
58	Triangles in Euclidean Arrangements. <i>Lecture Notes in Computer Science</i> , 1998, , 137-148.	1.3	3
59	Linear Extensions of N-free Orders. <i>Order</i> , 2015, 32, 147-155.	0.5	3
60	Straight Line Triangle Representations. <i>Discrete and Computational Geometry</i> , 2017, 57, 257-280.	0.6	3
61	The Complexity of the Partial Order Dimension Problem: Closing the Gap. <i>SIAM Journal on Discrete Mathematics</i> , 2017, 31, 172-189.	0.8	3
62	Rainbow Cycles in Flip Graphs. <i>SIAM Journal on Discrete Mathematics</i> , 2020, 34, 1-39.	0.8	3
63	Equiangular Polygon Contact Representations. <i>Lecture Notes in Computer Science</i> , 2018, , 203-215.	1.3	3
64	Straight-Line Triangle Representations via Schnyder Labelings. <i>Journal of Graph Algorithms and Applications</i> , 2015, 19, 467-505.	0.4	3
65	Boolean Dimension and Tree-Width. <i>Combinatorica</i> , 2020, 40, 655-677.	1.2	2
66	Henneberg steps for triangle representations. , 2013, , 503-509.		2
67	Arrangements of Pseudocircles: On Circularizability. <i>Lecture Notes in Computer Science</i> , 2018, , 555-568.	1.3	2
68	Line and Plane Cover Numbers Revisited. <i>Lecture Notes in Computer Science</i> , 2019, , 409-415.	1.3	2
69	A class of point-sets with few k-sets. <i>Computational Geometry: Theory and Applications</i> , 2000, 16, 95-101.	0.5	1
70	Linear Extension Diameter of Downset Lattices of 2-Dimensional Posets. <i>Electronic Notes in Discrete Mathematics</i> , 2009, 34, 313-317.	0.4	1
71	On-line Chain Partitions of Up-growing Semi-orders. <i>Order</i> , 2013, 30, 85-101.	0.5	1
72	Ham-Sandwich Cuts for Abstract Order Types. <i>Algorithmica</i> , 2018, 80, 234-257.	1.3	1

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73	Planar Bus Graphs. <i>Algorithmica</i> , 2018, 80, 2260-2285.	1.3	1
74	Ham-Sandwich Cuts for Abstract Order Types. <i>Lecture Notes in Computer Science</i> , 2014, , 726-737.	1.3	1
75	Schnyder Woods and Orthogonal Surfaces. <i>Lecture Notes in Computer Science</i> , 2007, , 417-429.	1.3	1
76	4-Connected Triangulations on Few Lines. <i>Lecture Notes in Computer Science</i> , 2019, , 395-408.	1.3	1
77	Plattenbauten: Touching Rectangles in Space. <i>Lecture Notes in Computer Science</i> , 2020, , 161-173.	1.3	1
78	On the Maximum Number of Crossings in Star-Simple Drawings of K_n with No Empty Lens. <i>Lecture Notes in Computer Science</i> , 2020, , 382-389.	1.3	1
79	Coloring Circle Arrangements: New 4-Chromatic Planar Graphs. <i>Trends in Mathematics</i> , 2021, , 84-91.	0.1	0
80	Shifting Segments to Optimality. , 2015, , 1-12.		0
81	Mixing Times of Markov Chains of \mathbb{Z}^2 -Orientations. <i>Lecture Notes in Computer Science</i> , 2016, , 114-127.	1.3	0
82	Arrangements of Approaching Pseudo-Lines. <i>Discrete and Computational Geometry</i> , 2022, 67, 380-402.	0.6	0
83	Topological Drawings Meet Classical Theorems from Convex Geometry. <i>Discrete and Computational Geometry</i> , 0, , .	0.6	0