

# Martin Näslennburg

## List of Publications by Year in descending order

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108  
papers

1,112  
citations

586496

16  
h-index

651938

25  
g-index

121  
all docs

121  
docs citations

121  
times ranked

680  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mixed Labeling: Integrating Internal and External Labels. IEEE Transactions on Visualization and Computer Graphics, 2022, 28, 1848-1861.	2.9	3
2	Multi-Level Area Balancing of Clustered Graphs. IEEE Transactions on Visualization and Computer Graphics, 2022, 28, 2682-2696.	2.9	7
3	Multicriteria Optimization for Dynamic Demers Cartograms. IEEE Transactions on Visualization and Computer Graphics, 2022, PP, 1-1.	2.9	0
4	An Algorithmic Study of Fully Dynamic Independent Sets for Map Labeling. Journal of Experimental Algorithmics, 2022, 27, 1-36.	0.7	0
5	MetroSets: Visualizing Sets as Metro Maps. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 1257-1267.	2.9	20
6	Edge-Path Bundling: A Less Ambiguous Edge Bundling Approach. IEEE Transactions on Visualization and Computer Graphics, 2021, PP, 1-1.	2.9	5
7	ClusterSets: Optimizing Planar Clusters in Categorical Point Data. Computer Graphics Forum, 2021, 40, 471-481.	1.8	3
8	On the Readability of Abstract Set Visualizations. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 2821-2832.	2.9	2
9	External Labeling: Fundamental Concepts and Algorithmic Techniques. Synthesis Lectures on Visualization, 2021, 8, 1-130.	0.1	0
10	Labeling nonograms: Boundary labeling for curve arrangements. Computational Geometry: Theory and Applications, 2021, 98, 101791.	0.3	1
11	Balanced Independent and Dominating Sets on Colored Interval Graphs. Lecture Notes in Computer Science, 2021, , 89-103.	1.0	0
12	Worbel. , 2021, , .		2
13	Unit Disk Representations of Embedded Trees, Outerplanar and Multi-legged Graphs. Lecture Notes in Computer Science, 2021, , 304-317.	1.0	2
14	On the Upward Book Thickness Problem: Combinatorial and Complexity Results. Lecture Notes in Computer Science, 2021, , 242-256.	1.0	3
15	Layered Area-Proportional Rectangle Contact Representations. Lecture Notes in Computer Science, 2021, , 318-326.	1.0	2
16	A Survey on Transit Map Layout “from Design, Machine, and Human Perspectives. Computer Graphics Forum, 2020, 39, 619-646.	1.8	27
17	Placing Labels in Road Maps: Algorithms and Complexity. Algorithmica, 2020, 82, 1881-1908.	1.0	2
18	A Unified Model and Algorithms for Temporal Map Labeling. Algorithmica, 2020, 82, 2709-2736.	1.0	4

#	ARTICLE	IF	CITATIONS
19	The Turing Test for Graph Drawing Algorithms. Lecture Notes in Computer Science, 2020, , 466-481.	1.0	2
20	Parameterized Algorithms for Book Embedding Problems. Journal of Graph Algorithms and Applications, 2020, 24, 603-620.	0.4	15
21	Parameterized Algorithms for Queue Layouts. Lecture Notes in Computer Science, 2020, , 40-54.	1.0	5
22	Crossing Layout in Non-planar Graph Drawings. , 2020, , 187-209.		4
23	Towards Data-Driven Multilinear Metro Maps. Lecture Notes in Computer Science, 2020, , 153-161.	1.0	6
24	Geometric Planar Networks on Bichromatic Points. Lecture Notes in Computer Science, 2020, , 79-91.	1.0	1
25	External Labeling Techniques: A Taxonomy and Survey. Computer Graphics Forum, 2019, 38, 833-860.	1.8	20
26	Planar drawings of fixed-mobile bigraphs. Theoretical Computer Science, 2019, 795, 408-419.	0.5	0
27	Guidelines for Experimental Algorithmics: A Case Study in Network Analysis. Algorithms, 2019, 12, 127.	1.2	12
28	Metabopolis: scalable network layout for biological pathway diagrams in urban map style. BMC Bioinformatics, 2019, 20, 187.	1.2	8
29	Exploring Semi-Automatic Map Labeling. , 2019, , .		6
30	On the readability of leaders in boundary labeling. Information Visualization, 2019, 18, 110-132.	1.2	4
31	Photonic-integrated circuits with non-planar topologies realized by 3D-printed waveguide overpasses. Optics Express, 2019, 27, 17402.	1.7	23
32	Short Plane Supports for Spatial Hypergraphs. Journal of Graph Algorithms and Applications, 2019, 23, 463-498.	0.4	6
33	On Strict (Outer-)Confluent Graphs. Lecture Notes in Computer Science, 2019, , 147-161.	1.0	3
34	Maximizing Ink in Partial Edge Drawings of k-plane Graphs. Lecture Notes in Computer Science, 2019, , 323-336.	1.0	3
35	Parameterized Algorithms for Book Embedding Problems. Lecture Notes in Computer Science, 2019, , 365-378.	1.0	5
36	Computing Stable Demers Cartograms. Lecture Notes in Computer Science, 2019, , 46-60.	1.0	3

#	ARTICLE	IF	CITATIONS
37	Mixed Linear Layouts: Complexity, Heuristics, and Experiments. Lecture Notes in Computer Science, 2019, , 460-467.	1.0	6
38	Graph Visualization. , 2018, , 1-9.		0
39	Drawing Large Graphs by Multilevel Maxent-Stress Optimization. IEEE Transactions on Visualization and Computer Graphics, 2018, 24, 1814-1827.	2.9	12
40	Experimental Evaluation of Book Drawing Algorithms. Lecture Notes in Computer Science, 2018, , 224-238.	1.0	7
41	Orthogonal and Smooth Orthogonal Layouts of 1-Planar Graphs with Low Edge Complexity. Lecture Notes in Computer Science, 2018, , 509-523.	1.0	3
42	Lombardi Drawings of Knots and Links. Lecture Notes in Computer Science, 2018, , 113-126.	1.0	2
43	Planar Drawings of Fixed-Mobile Bigraphs. Lecture Notes in Computer Science, 2018, , 426-439.	1.0	2
44	Crowdsourcing Versus the Laboratory: Towards Human-Centered Experiments Using the Crowd. Lecture Notes in Computer Science, 2017, , 6-26.	1.0	20
45	Radial contour labeling with straight leaders. , 2017, , .		4
46	Euclidean Greedy Drawings of Trees. Discrete and Computational Geometry, 2017, 58, 543-579.	0.4	5
47	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
48	Progress on Partial Edge Drawings. Journal of Graph Algorithms and Applications, 2017, 21, 757-786.	0.4	12
49	Guest editors' foreword. Journal of Graph Algorithms and Applications, 2017, 21, 787-789.	0.4	0
50	Extending Convex Partial Drawings of Graphs. Algorithmica, 2016, 76, 47-67.	1.0	12
51	Evaluation of Labeling Strategies for Rotating Maps. Journal of Experimental Algorithmics, 2016, 21, 1-21.	0.7	10
52	An Algorithmic Framework for Labeling Road Maps. Lecture Notes in Computer Science, 2016, , 308-322.	1.0	2
53	Temporal map labeling. , 2016, , .		9
54	Software Visualization via Hierarchic Micro/Macro Layouts. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
55	Mixed Map Labeling. Journal of Spatial Information Science, 2016, , .	1.1	0
56	Multirow Boundary-Labeling Algorithms for Panorama Images. ACM Transactions on Spatial Algorithms and Systems, 2015, 1, 1-30.	1.1	6
57	Mixed Map Labeling. Lecture Notes in Computer Science, 2015, , 339-351.	1.0	5
58	On Minimizing Crossings in Storyline Visualizations. Lecture Notes in Computer Science, 2015, , 192-198.	1.0	9
59	Combinatorial Properties of Triangle-Free Rectangle Arrangements and the Squarability Problem. Lecture Notes in Computer Science, 2015, , 231-244.	1.0	4
60	Drawing Large Graphs by Multilevel Maxent-Stress Optimization. Lecture Notes in Computer Science, 2015, , 30-43.	1.0	11
61	On the Readability of Boundary Labeling. Lecture Notes in Computer Science, 2015, , 515-527.	1.0	6
62	Many-to-One Boundary Labeling with Backbones. Journal of Graph Algorithms and Applications, 2015, 19, 779-816.	0.4	11
63	Recognizing Weighted Disk Contact Graphs. Lecture Notes in Computer Science, 2015, , 433-446.	1.0	6
64	Partitioning Graph Drawings and Triangulated Simple Polygons into Greedily Routable Regions. Lecture Notes in Computer Science, 2015, , 637-649.	1.0	0
65	Scalability Considerations for Multivariate Graph Visualization. Lecture Notes in Computer Science, 2014, , 207-235.	1.0	10
66	On $d$ -regular schematization of embedded paths. Computational Geometry: Theory and Applications, 2014, 47, 381-406.	0.3	9
67	Minimum Tree Supports for Hypergraphs and Low-Concurrency Euler Diagrams. Lecture Notes in Computer Science, 2014, , 265-276.	1.0	8
68	Semantic Word Cloud Representations: Hardness and Approximation Algorithms. Lecture Notes in Computer Science, 2014, , 514-525.	1.0	20
69	Simultaneous Embeddability of Two Partitions. Lecture Notes in Computer Science, 2014, , 64-75.	1.0	2
70	On Self-Approaching and Increasing-Chord Drawings of 3-Connected Planar Graphs. Lecture Notes in Computer Science, 2014, , 476-487.	1.0	4
71	Drawing Trees with Perfect Angular Resolution and Polynomial Area. Discrete and Computational Geometry, 2013, 49, 157-182.	0.4	12
72	Circular-arc cartograms. , 2013, , .		12

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73	Many-to-One Boundary Labeling with Backbones. Lecture Notes in Computer Science, 2013, , 244-255.	1.0	3
74	Drawing Planar Graphs with a Prescribed Inner Face. Lecture Notes in Computer Science, 2013, , 316-327.	1.0	4
75	On the Usability of Lombardi Graph Drawings. Lecture Notes in Computer Science, 2013, , 451-462.	1.0	16
76	Drawing Metro Maps Using Bézier Curves. Lecture Notes in Computer Science, 2013, , 463-474.	1.0	22
77	Planar Lombardi Drawings of Outerpaths. Lecture Notes in Computer Science, 2013, , 561-562.	1.0	3
78	Euclidean Greedy Drawings of Trees. Lecture Notes in Computer Science, 2013, , 767-778.	1.0	5
79	Trajectory-Based Dynamic Map Labeling. Lecture Notes in Computer Science, 2013, , 413-423.	1.0	13
80	Edge-weighted contact representations of planar graphs. Journal of Graph Algorithms and Applications, 2013, 17, 441-473.	0.4	4
81	Progress on Partial Edge Drawings. Lecture Notes in Computer Science, 2013, , 67-78.	1.0	8
82	Optimal 3D Angular Resolution for Low-Degree Graphs. Journal of Graph Algorithms and Applications, 2013, 17, 173-200.	0.4	2
83	Algorithms for computing the maximum weight region decomposable into elementary shapes. Computer Vision and Image Understanding, 2012, 116, 803-814.	3.0	4
84	Drawing (Complete) Binary Tanglegrams. Algorithmica, 2012, 62, 309-332.	1.0	17
85	Lombardi Drawings of Graphs. Journal of Graph Algorithms and Applications, 2012, 16, 85-108.	0.4	34
86	Drawing and Labeling High-Quality Metro Maps by Mixed-Integer Programming. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 626-641.	2.9	114
87	Boundary-labeling algorithms for panorama images. , 2011, , .		9
88	On d-Regular Schematization of Embedded Paths. Lecture Notes in Computer Science, 2011, , 260-271.	1.0	3
89	Lombardi Drawings of Graphs. Lecture Notes in Computer Science, 2011, , 195-207.	1.0	16
90	Optimal 3D Angular Resolution for Low-Degree Graphs. Lecture Notes in Computer Science, 2011, , 208-219.	1.0	3

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91	Adjacency-Preserving Spatial Treemaps. Lecture Notes in Computer Science, 2011, , 159-170.	1.0	11
92	Automatic Generation of Route Sketches. Lecture Notes in Computer Science, 2011, , 391-392.	1.0	0
93	Boundary Labeling with Octilinear Leaders. Algorithmica, 2010, 57, 436-461.	1.0	35
94	Optimizing active ranges for consistent dynamic map labeling. Computational Geometry: Theory and Applications, 2010, 43, 312-328.	0.3	48
95	Dynamic one-sided boundary labeling. , 2010, , .		14
96	An Improved Algorithm for the Metro-line Crossing Minimization Problem. Lecture Notes in Computer Science, 2010, , 381-392.	1.0	18
97	Path Schematization for Route Sketches. Lecture Notes in Computer Science, 2010, , 285-296.	1.0	11
98	Drawing Binary Tanglegrams: An Experimental Evaluation. , 2009, , 106-119.		10
99	Consistent Digital Rays. Discrete and Computational Geometry, 2009, 42, 359-378.	0.4	15
100	Drawing (Complete) Binary Tanglegrams. Lecture Notes in Computer Science, 2009, , 324-335.	1.0	12
101	Algorithms for Multi-Criteria Boundary Labeling. Journal of Graph Algorithms and Applications, 2009, 13, 289-317.	0.4	24
102	Morphing polylines: A step towards continuous generalization. Computers, Environment and Urban Systems, 2008, 32, 248-260.	3.3	40
103	Consistent digital rays. , 2008, , .		3
104	Optimizing active ranges for consistent dynamic map labeling. , 2008, , .		2
105	Boundary Labeling with Octilinear Leaders. Lecture Notes in Computer Science, 2008, , 234-245.	1.0	5
106	Geographic Visualization. , 2007, , 257-294.		32
107	Algorithms for Multi-criteria One-Sided Boundary Labeling. , 2007, , 243-254.		10
108	Minimizing Intra-edge Crossings in Wiring Diagrams and Public Transportation Maps. , 2006, , 270-281.		13