Michael A Bekos

List of Publications by Year
in descending order

93 papers	702 citations	687335 13 h-index	752679 20 g-index
98 all docs	98 docs citations	98 times ranked	206 citing authors

#	Article	IF	Citations
1	Boundary labeling: Models and efficient algorithms for rectangular maps. Computational Geometry: Theory and Applications, 2007, 36, 215-236.	0.5	67
2	Boundary Labeling with Octilinear Leaders. Algorithmica, 2010, 57, 436-461.	1.3	35
3	The Straight-Line RAC Drawing Problem is NP-Hard. Journal of Graph Algorithms and Applications, 2012, 16, 569-597.	0.4	33
4	On RAC drawings of 1-planar graphs. Theoretical Computer Science, 2017, 689, 48-57.	0.9	25
5	On the Recognition of Fan-Planar and Maximal Outer-Fan-Planar Graphs. Algorithmica, 2017, 79, 401-427.	1.3	22
6	Two-Page Book Embeddings of 4-Planar Graphs. Algorithmica, 2016, 75, 158-185.	1.3	21
7	External Labeling Techniques: A Taxonomy and Survey. Computer Graphics Forum, 2019, 38, 833-860.	3.0	20
8	Area-Feature Boundary Labeling. Computer Journal, 2010, 53, 827-841.	2.4	19
9	The Book Thickness of 1-Planar Graphs is Constant. Algorithmica, 2017, 79, 444-465.	1.3	18
10	Boundary Labeling: Models and Efficient Algorithms for Rectangular Maps. Lecture Notes in Computer Science, 2005, , 49-59.	1.3	17
11	Maximizing the Total Resolution of Graphs. Computer Journal, 2013, 56, 887-900.	2.4	15
12	Queue Layouts of Planar 3-Trees. Algorithmica, 2020, 82, 2564-2585.	1.3	15
13	Line Crossing Minimization on Metro Maps. , 2007, , 231-242.		15
14	Geometric RAC Simultaneous Drawings of Graphs. Journal of Graph Algorithms and Applications, 2013, 17, 11-34.	0.4	14
15	The Straight-Line RAC Drawing Problem Is NP-Hard. Lecture Notes in Computer Science, 2011, , 74-85.	1.3	13
16	On Metro-Line Crossing Minimization. Journal of Graph Algorithms and Applications, 2010, 14, 75-96.	0.4	13
17	Multi-stack Boundary Labeling Problems. Lecture Notes in Computer Science, 2006, , 81-92.	1.3	12
18	On the Recognition of Fan-Planar and Maximal Outer-Fan-Planar Graphs. Lecture Notes in Computer Science, 2014, , 198-209.	1.3	12

#	Article	IF	Citations
19	Smooth Orthogonal Layouts. Journal of Graph Algorithms and Applications, 2013, 17, 575-595.	0.4	12
20	Simultaneous Drawing of Planar Graphs with Right-Angle Crossings and Few Bends. Journal of Graph Algorithms and Applications, 2016, 20, 133-158.	0.4	12
21	Planar Graphs of Bounded Degree Have Bounded Queue Number. SIAM Journal on Computing, 2019, 48, 1487-1502.	1.0	11
22	Simple k-planar graphs are simple (kâ€+â€1)-quasiplanar. Journal of Combinatorial Theory Series B, 2020, 142, 1-35.	1.0	11
23	Many-to-One Boundary Labeling with Backbones. Journal of Graph Algorithms and Applications, 2015, 19, 779-816.	0.4	11
24	1-Fan-bundle-planar drawings of graphs. Theoretical Computer Science, 2018, 723, 23-50.	0.9	10
25	Guest Editors' Foreword and Overview. Journal of Graph Algorithms and Applications, 2018, 22, 1-10.	0.4	10
26	Efficient Labeling of Collinear Sites. Journal of Graph Algorithms and Applications, 2008, 12, 357-380.	0.4	8
27	Planar Octilinear Drawings with One Bend Per Edge. Journal of Graph Algorithms and Applications, 2015, 19, 657-680.	0.4	8
28	Vertex-Coloring with Defects. Journal of Graph Algorithms and Applications, 2017, 21, 313-340.	0.4	8
29	Smooth Orthogonal Layouts. Lecture Notes in Computer Science, 2013, , 150-161.	1.3	8
30	On the Relationship Between k-Planar and k-Quasi-Planar Graphs. Lecture Notes in Computer Science, 2017, , 59-74.	1.3	7
31	Maximizing the Total Resolution of Graphs. Lecture Notes in Computer Science, 2011, , 62-67.	1.3	7
32	1-Planar Graphs have Constant Book Thickness. Lecture Notes in Computer Science, 2015, , 130-141.	1.3	7
33	On the Density of Non-simple 3-Planar Graphs. Lecture Notes in Computer Science, 2016, , 344-356.	1.3	7
34	Universal Slope Sets for 1-Bend Planar Drawings. Algorithmica, 2019, 81, 2527-2556.	1.3	6
35	Edge partitions of optimal 2-plane and 3-plane graphs. Discrete Mathematics, 2019, 342, 1038-1047.	0.7	6
36	On dispersable book embeddings. Theoretical Computer Science, 2021, 861, 1-22.	0.9	6

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37	Queue Layouts of Planar 3-Trees. Lecture Notes in Computer Science, 2018, , 213-226.	1.3	6
38	Smooth Orthogonal Drawings of Planar Graphs. Lecture Notes in Computer Science, 2014, , 144-155.	1.3	6
39	Boundary Labelling of Optimal Total Leader Length. Lecture Notes in Computer Science, 2005, , 80-89.	1.3	6
40	The Book Embedding Problem from a SAT-Solving Perspective. Lecture Notes in Computer Science, 2015, , 125-138.	1.3	6
41	A Heuristic Approach Towards Drawings of Graphs with High Crossing Resolution. Lecture Notes in Computer Science, 2018, , 271-285.	1.3	6
42	A note on maximum differential coloring of planar graphs. Journal of Discrete Algorithms, 2014, 29, 1-7.	0.7	5
43	Improved Approximation Algorithms for Box Contact Representations. Algorithmica, 2017, 77, 902-920.	1.3	5
44	On 3D visibility representations of graphs with few crossings per edge. Theoretical Computer Science, 2019, 784, 11-20.	0.9	5
45	On RAC drawings of graphs with one bend per edge. Theoretical Computer Science, 2020, 828-829, 42-54.	0.9	5
46	On the Total Number of Bends for Planar Octilinear Drawings. Journal of Graph Algorithms and Applications, 2017, 21, 709-730.	0.4	5
47	Boundary Labeling with Octilinear Leaders. Lecture Notes in Computer Science, 2008, , 234-245.	1.3	5
48	On Smooth Orthogonal and Octilinear Drawings: Relations, Complexity and Kandinsky Drawings. Algorithmica, 2019, 81, 2046-2071.	1.3	4
49	Low Ply Drawings of Trees. Lecture Notes in Computer Science, 2016, , 236-248.	1.3	4
50	Universal Slope Sets for Upward Planar Drawings. Lecture Notes in Computer Science, 2018, , 77-91.	1.3	4
51	On Dispersable Book Embeddings. Lecture Notes in Computer Science, 2018, , 1-14.	1.3	4
52	Fan-Planar Graphs. , 2020, , 131-148.		4
53	Labeling collinear sites. , 2007, , .		3
54	Grid drawings of graphs with constant edge-vertex resolution. Computational Geometry: Theory and Applications, 2021, 98, 101789.	0.5	3

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55	Many-to-One Boundary Labeling with Backbones. Lecture Notes in Computer Science, 2013, , 244-255.	1.3	3
56	On Smooth Orthogonal and Octilinear Drawings: Relations, Complexity and Kandinsky Drawings. Lecture Notes in Computer Science, 2018, , 169-183.	1.3	3
57	The Effect of Almost-Empty Faces on Planar Kandinsky Drawings. Lecture Notes in Computer Science, 2015, , 352-364.	1.3	3
58	Efficient Generation of Different Topological Representations of Graphs Beyond-Planarity. Lecture Notes in Computer Science, 2019, , 253-267.	1.3	3
59	Lazy Queue Layouts of Posets. Lecture Notes in Computer Science, 2020, , 55-68.	1.3	3
60	Computing Schematic Layouts for Spatial Hypergraphs on Concentric Circles and Grids. Computer Graphics Forum, 0, , .	3.0	3
61	Sloggy drawings of graphs. , 2014, , .		2
62	The maximum k -differential coloring problem. Journal of Discrete Algorithms, 2017, 45, 35-53.	0.7	2
63	Hierarchical Partial Planarity. Algorithmica, 2019, 81, 2196-2221.	1.3	2
64	A Heuristic Approach Towards Drawings of Graphs With High Crossing Resolution. Computer Journal, 2021, 64, 7-26.	2.4	2
65	Geometric RAC Simultaneous Drawings of Graphs. Lecture Notes in Computer Science, 2012, , 287-298.	1.3	2
66	Slanted Orthogonal Drawings. Lecture Notes in Computer Science, 2013, , 424-435.	1.3	2
67	Slanted Orthogonal Drawings: Model, Algorithms and Evaluations. Journal of Graph Algorithms and Applications, 2014, 18, 459-489.	0.4	2
68	Edge Partitions of Optimal 2-plane and 3-plane Graphs. Lecture Notes in Computer Science, 2018, , 27-39.	1.3	2
69	Planar Drawings of Fixed-Mobile Bigraphs. Lecture Notes in Computer Science, 2018, , 426-439.	1.3	2
70	On Turn-Regular Orthogonal Representations. Lecture Notes in Computer Science, 2020, , 250-264.	1.3	2
71	On theÂQueue Number ofÂPlanar Graphs. Lecture Notes in Computer Science, 2021, , 271-284.	1.3	2
72	Sloginsky drawings of graphs. , 2015, , .		1

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73	Algorithms and insights for RaceTrack. Theoretical Computer Science, 2018, 748, 2-16.	0.9	1
74	Hierarchical Partial Planarity. Lecture Notes in Computer Science, 2017, , 45-58.	1.3	1
75	Circle-Representations of Simple 4-Regular Planar Graphs. Lecture Notes in Computer Science, 2013, , 138-149.	1.3	1
76	Improved Approximation Algorithms for Box Contact Representations. Lecture Notes in Computer Science, 2014, , 87-99.	1.3	1
77	Vertex-Coloring with Star-Defects. Lecture Notes in Computer Science, 2016, , 40-51.	1.3	1
78	On the Total Number of Bends for Planar Octilinear Drawings. Lecture Notes in Computer Science, 2016, , 152-163.	1.3	1
79	On RAC Drawings of Graphs with One Bend per Edge. Lecture Notes in Computer Science, 2018, , 123-136.	1.3	1
80	1-Fan-Bundle-Planar Drawings of Graphs. Lecture Notes in Computer Science, 2018, , 517-530.	1.3	1
81	Greedy Rectilinear Drawings. Lecture Notes in Computer Science, 2018, , 495-508.	1.3	1
82	Bitonic st-Orderings for Upward Planar Graphs: The Variable Embedding Setting. Lecture Notes in Computer Science, 2020, , 339-351.	1.3	1
83	Convex Grid Drawings of Planar Graphs with Constant Edge-Vertex Resolution. Lecture Notes in Computer Science, 2022, , 157-171.	1.3	1
84	Planar drawings of fixed-mobile bigraphs. Theoretical Computer Science, 2019, 795, 408-419.	0.9	0
85	Greedy rectilinear drawings. Theoretical Computer Science, 2019, 795, 375-397.	0.9	0
86	On Morphing 1-Planar Drawings. Lecture Notes in Computer Science, 2021, , 270-282.	1.3	0
87	External Labeling: Fundamental Concepts and Algorithmic Techniques. Synthesis Lectures on Visualization, 2021, 8, 1-130.	0.1	0
88	Combining Problems on RAC Drawings and Simultaneous Graph Drawings. Lecture Notes in Computer Science, 2012, , 433-434.	1.3	0
89	The Maximum k-Differential Coloring Problem. Lecture Notes in Computer Science, 2015, , 115-127.	1.3	0
90	Geometric Representations of Dichotomous Ordinal Data. Lecture Notes in Computer Science, 2019, , 205-217.	1.3	0

#	Article	IF	Citations
91	$$extit{extbf{k}}$$-Planar Graphs. , 2020, , 109-130.		0
92	On Mixed Linear Layouts of Series-Parallel Graphs. Lecture Notes in Computer Science, 2020, , 151-159.	1.3	0
93	Universal Slope Sets for Upward Planar Drawings. Algorithmica, 0, , .	1.3	0