Michael A Bekos

List of Publications by Citations

96 papers	549 citations	12 h-index	17 g-index
98 ext. papers	593 ext. citations	0.8 avg, IF	4.01 L-index

#	Paper	IF	Citations
96	Boundary labeling: Models and efficient algorithms for rectangular maps. *Computational Geometry: Theory and Applications*, **2007**, 36, 215-236	0.4	57
95	Boundary Labeling with Octilinear Leaders. *Algorithmica*, **2010**, 57, 436-461	0.9	31
94	The Straight-Line RAC Drawing Problem is NP-Hard. *Journal of Graph Algorithms and Applications*, **2012**, 16, 569-597	1.5	29
93	On RAC drawings of 1-planar graphs. *Theoretical Computer Science*, **2017**, 689, 48-57	1.1	20
92	Area-Feature Boundary Labeling. *Computer Journal*, **2010**, 53, 827-841	1.3	19
91	On the Recognition of Fan-Planar and Maximal Outer-Fan-Planar Graphs. *Algorithmica*, **2017**, 79, 401-427	0.9	16
90	Boundary Labeling: Models and Efficient Algorithms for Rectangular Maps. *Lecture Notes in Computer Science*, **2005**, 49-59	0.9	15
89	Geometric RAC Simultaneous Drawings of Graphs. *Journal of Graph Algorithms and Applications*, **2013**, 17, 11-34	1.5	14
88	Line Crossing Minimization on Metro Maps **2007**, 231-242		14
87	Two-Page Book Embeddings of 4-Planar Graphs. *Algorithmica*, **2016**, 75, 158-185	0.9	13
86	Maximizing the Total Resolution of Graphs. *Computer Journal*, **2013**, 56, 887-900	1.3	13
85	Simultaneous Drawing of Planar Graphs with Right-Angle Crossings and Few Bends. *Journal of Graph Algorithms and Applications*, **2016**, 20, 133-158	1.5	12
84	Multi-stack Boundary Labeling Problems. *Lecture Notes in Computer Science*, **2006**, 81-92	0.9	12
83	On Metro-Line Crossing Minimization. *Journal of Graph Algorithms and Applications*, **2010**, 14, 75-96	1.5	11
82	The Straight-Line RAC Drawing Problem Is NP-Hard. *Lecture Notes in Computer Science*, **2011**, 74-85	0.9	11
81	On the Recognition of Fan-Planar and Maximal Outer-Fan-Planar Graphs. *Lecture Notes in Computer Science*, **2014**, 198-209	0.9	11
80	The Book Thickness of 1-Planar Graphs is Constant. *Algorithmica*, **2017**, 79, 444-465	0.9	10

61	Queue Layouts of Planar 3-Trees. *Algorithmica*, **2020**, 82, 2564-2585	0.9	5
60	A note on maximum differential coloring of planar graphs. *Journal of Discrete Algorithms*, **2014**, 29, 1-7		5
59	Smooth Orthogonal Drawings of Planar Graphs. *Lecture Notes in Computer Science*, **2014**, 144-155	0.9	5
58	The Book Embedding Problem from a SAT-Solving Perspective. *Lecture Notes in Computer Science*, **2015**, 125-138	0.9	5
57	Smooth Orthogonal Layouts. *Lecture Notes in Computer Science*, **2013**, 150-161	0.9	5
56	On the Total Number of Bends for Planar Octilinear Drawings. *Journal of Graph Algorithms and Applications*, **2017**, 21, 709-730	1.5	4
55	A Heuristic Approach Towards Drawings of Graphs with High Crossing Resolution. *Lecture Notes in Computer Science*, **2018**, 271-285	0.9	4
54	Two Polynomial Time Algorithms for the Metro-line Crossing Minimization Problem. *Lecture Notes in Computer Science*, **2009**, 336-347	0.9	4
53	Low Ply Drawings of Trees. *Lecture Notes in Computer Science*, **2016**, 236-248	0.9	4
52	Improved Approximation Algorithms for Box Contact Representations. *Algorithmica*, **2017**, 77, 902-920	0.9	3
51	On Smooth Orthogonal and Octilinear Drawings: Relations, Complexity and Kandinsky Drawings. *Algorithmica*, **2019**, 81, 2046-2071	0.9	3
50	Universal Slope Sets for 1-Bend Planar Drawings. *Algorithmica*, **2019**, 81, 2527-2556	0.9	3
49	On Dispersable Book Embeddings. *Lecture Notes in Computer Science*, **2018**, 1-14	0.9	3
48	Many-to-One Boundary Labeling with Backbones. *Lecture Notes in Computer Science*, **2013**, 244-255	0.9	3
47	Simultaneous Drawing of Planar Graphs with Right-Angle Crossings and Few Bends. *Lecture Notes in Computer Science*, **2015**, 222-233	0.9	3
46	The Effect of Almost-Empty Faces on Planar Kandinsky Drawings. *Lecture Notes in Computer Science*, **2015**, 352-364	0.9	3
45	BLer: A Boundary Labeller for Technical Drawings. *Lecture Notes in Computer Science*, **2006**, 503-504	0.9	3
44	Sloggy drawings of graphs **2014**,		2

43	The maximum k-differential coloring problem. *Journal of Discrete Algorithms*, **2017**, 45, 35-53		2
42	Fan-Planar Graphs **2020**, 131-148		2
41	Boundary Labeling with Octilinear Leaders. *Lecture Notes in Computer Science*, **2008**, 234-245	0.9	2
40	On the Queue Number of Planar Graphs. *Lecture Notes in Computer Science*, **2021**, 271-284	0.9	2
39	Boundary Labelling of Optimal Total Leader Length. *Lecture Notes in Computer Science*, **2005**, 80-89	0.9	2
38	Universal Slope Sets for Upward Planar Drawings. *Lecture Notes in Computer Science*, **2018**, 77-91	0.9	2
37	Planar Drawings of Fixed-Mobile Bigraphs. *Lecture Notes in Computer Science*, **2018**, 426-439	0.9	2
36	Lazy Queue Layouts of Posets. *Lecture Notes in Computer Science*, **2020**, 55-68	0.9	2
35	On Smooth Orthogonal and Octilinear Drawings: Relations, Complexity and Kandinsky Drawings. *Lecture Notes in Computer Science*, **2018**, 169-183	0.9	2
34	Geometric RAC Simultaneous Drawings of Graphs. *Lecture Notes in Computer Science*, **2012**, 287-298	0.9	2
33	Slanted Orthogonal Drawings. *Lecture Notes in Computer Science*, **2013**, 424-435	0.9	2
32	Slanted Orthogonal Drawings: Model, Algorithms and Evaluations. *Journal of Graph Algorithms and Applications*, **2014**, 18, 459-489	1.5	2
31	Grid drawings of graphs with constant edge-vertex resolution. *Computational Geometry: Theory and Applications*, **2021**, 98, 101789	0.4	2
30	Sloginsky drawings of graphs **2015**,		1
29	Labeling collinear sites **2007**,		1
28	On Turn-Regular Orthogonal Representations. *Lecture Notes in Computer Science*, **2020**, 250-264	0.9	1
27	On RAC Drawings of Graphs with One Bend per Edge. *Lecture Notes in Computer Science*, **2018**, 123-136	0.9	1
26	Edge Partitions of Optimal 2-plane and 3-plane Graphs. *Lecture Notes in Computer Science*, **2018**, 27-39	0.9	1

25	3D Visibility Representations of 1-planar Graphs. *Lecture Notes in Computer Science*, **2018**, 102-109	0.9	1
24	1-Fan-Bundle-Planar Drawings of Graphs. *Lecture Notes in Computer Science*, **2018**, 517-530	0.9	1
23	Efficient Generation of Different Topological Representations of Graphs Beyond-Planarity. *Lecture Notes in Computer Science*, **2019**, 253-267	0.9	1
22	Bitonic st-Orderings for Upward Planar Graphs: The Variable Embedding Setting. *Lecture Notes in Computer Science*, **2020**, 339-351	0.9	1
21	Hierarchical Partial Planarity. *Lecture Notes in Computer Science*, **2017**, 45-58	0.9	1
20	Vertex-Coloring with Star-Defects. *Lecture Notes in Computer Science*, **2016**, 40-51	0.9	1
19	On the Total Number of Bends for Planar Octilinear Drawings. *Lecture Notes in Computer Science*, **2016**, 152-163	0.9	1
18	Improved Approximation Algorithms for Box Contact Representations. *Lecture Notes in Computer Science*, **2014**, 87-99	0.9	1
17	On RAC drawings of graphs with one bend per edge. *Theoretical Computer Science*, **2020**, 828-829, 42-54	1.1	1
16	On dispersable book embeddings. *Theoretical Computer Science*, **2021**, 861, 1-22	1.1	1
15	Hierarchical Partial Planarity. *Algorithmica*, **2019**, 81, 2196-2221	0.9	1
14	Algorithms and insights for RaceTrack. *Theoretical Computer Science*, **2018**, 748, 2-16	1.1	1
13	Convex Grid Drawings of Planar Graphs with Constant Edge-Vertex Resolution. *Lecture Notes in Computer Science*, **2022**, 157-171	0.9	1
12	A Heuristic Approach Towards Drawings of Graphs With High Crossing Resolution. *Computer Journal*, **2021**, 64, 7-26	1.3	0
11	Planar drawings of fixed-mobile bigraphs. *Theoretical Computer Science*, **2019**, 795, 408-419	1.1	
10	Greedy rectilinear drawings. *Theoretical Computer Science*, **2019**, 795, 375-397	1.1	
9	On Mixed Linear Layouts of Series-Parallel Graphs. *Lecture Notes in Computer Science*, **2020**, 151-159	0.9	
8	Greedy Rectilinear Drawings. *Lecture Notes in Computer Science*, **2018**, 495-508	0.9	

LIST OF PUBLICATIONS

7   Geometric Representations of Dichotomous Ordinal Data. *Lecture Notes in Computer Science*, **2019**, 205-217

6   (textit{textbf{k}})-Planar Graphs **2020**, 109-130   7

5   The Maximum k-Differential Coloring Problem. *Lecture Notes in Computer Science*, **2015**, 115-127   0.9

4   Combining Problems on RAC Drawings and Simultaneous Graph Drawings. *Lecture Notes in Computer Science*, **2012**, 433-434   0.9

3   Circle-Representations of Simple 4-Regular Planar Graphs. *Lecture Notes in Computer Science*, **2013**, 138-149   0.9

2   On Morphing 1-Planar Drawings. *Lecture Notes in Computer Science*, **2021**, 270-282   0.9

1   External Labeling: Fundamental Concepts and Algorithmic Techniques. *Synthesis Lectures on Visualization*, **2021**, 8, 1-130   1.5