Michael A Bekos

List of Publications by Year in Descending Order

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	Convex Grid Drawings of Planar Graphs with Constant Edge-Vertex Resolution. *Lecture Notes in Computer Science*, **2022**, 157-171	0.9	1
95	On the Queue Number of Planar Graphs. *Lecture Notes in Computer Science*, **2021**, 271-284	0.9	2
94	On dispersable book embeddings. *Theoretical Computer Science*, **2021**, 861, 1-22	1.1	1
93	A Heuristic Approach Towards Drawings of Graphs With High Crossing Resolution. *Computer Journal*, **2021**, 64, 7-26	1.3	0
92	On Morphing 1-Planar Drawings. *Lecture Notes in Computer Science*, **2021**, 270-282	0.9	
91	External Labeling: Fundamental Concepts and Algorithmic Techniques. *Synthesis Lectures on Visualization*, **2021**, 8, 1-130	1.5	
90	Grid drawings of graphs with constant edge-vertex resolution. *Computational Geometry: Theory and Applications*, **2021**, 98, 101789	0.4	2
89	Queue Layouts of Planar 3-Trees. *Algorithmica*, **2020**, 82, 2564-2585	0.9	5
88	Fan-Planar Graphs **2020**, 131-148		2
87	On Mixed Linear Layouts of Series-Parallel Graphs. *Lecture Notes in Computer Science*, **2020**, 151-159	0.9	
86	On Turn-Regular Orthogonal Representations. *Lecture Notes in Computer Science*, **2020**, 250-264	0.9	1
85	Lazy Queue Layouts of Posets. *Lecture Notes in Computer Science*, **2020**, 55-68	0.9	2
84	Bitonic st-Orderings for Upward Planar Graphs: The Variable Embedding Setting. *Lecture Notes in Computer Science*, **2020**, 339-351	0.9	1
83	(textit{textbf{k}})-Planar Graphs **2020**, 109-130		
82	On RAC drawings of graphs with one bend per edge. *Theoretical Computer Science*, **2020**, 828-829, 42-54	1.1	1
81	Simple k-planar graphs are simple (k + 1)-quasiplanar. *Journal of Combinatorial Theory Series B*, **2020**, 142, 1-35	1.1	6
80	On Smooth Orthogonal and Octilinear Drawings: Relations, Complexity and Kandinsky Drawings. *Algorithmica*, **2019**, 81, 2046-2071	0.9	3

79	On 3D visibility representations of graphs with few crossings per edge. *Theoretical Computer Science*, **2019**, 784, 11-20	1.1	5
78	External Labeling Techniques: A Taxonomy and Survey. *Computer Graphics Forum*, **2019**, 38, 833-860	2.4	9
77	Planar drawings of fixed-mobile bigraphs. *Theoretical Computer Science*, **2019**, 795, 408-419	1.1	
76	Greedy rectilinear drawings. *Theoretical Computer Science*, **2019**, 795, 375-397	1.1	
75	Universal Slope Sets for 1-Bend Planar Drawings. *Algorithmica*, **2019**, 81, 2527-2556	0.9	3
74	Geometric Representations of Dichotomous Ordinal Data. *Lecture Notes in Computer Science*, **2019**, 205-217		
73	Efficient Generation of Different Topological Representations of Graphs Beyond-Planarity. *Lecture Notes in Computer Science*, **2019**, 253-267	0.9	1
72	Planar Graphs of Bounded Degree Have Bounded Queue Number. *SIAM Journal on Computing*, **2019**, 48, 1487-1502	1.1	7
71	Hierarchical Partial Planarity. *Algorithmica*, **2019**, 81, 2196-2221	0.9	1
70	Edge partitions of optimal 2-plane and 3-plane graphs. *Discrete Mathematics*, **2019**, 342, 1038-1047	0.7	6
69	1-Fan-bundle-planar drawings of graphs. *Theoretical Computer Science*, **2018**, 723, 23-50	1.1	7
68	Guest EditorsⱮForeword and Overview. *Journal of Graph Algorithms and Applications*, **2018**, 22, 1-10	1.5	10
67	On RAC Drawings of Graphs with One Bend per Edge. *Lecture Notes in Computer Science*, **2018**, 123-136	0.9	1
66	Universal Slope Sets for Upward Planar Drawings. *Lecture Notes in Computer Science*, **2018**, 77-91	0.9	2
65	Edge Partitions of Optimal 2-plane and 3-plane Graphs. *Lecture Notes in Computer Science*, **2018**, 27-39	0.9	1
64	3D Visibility Representations of 1-planar Graphs. *Lecture Notes in Computer Science*, **2018**, 102-109	0.9	1
63	1-Fan-Bundle-Planar Drawings of Graphs. *Lecture Notes in Computer Science*, **2018**, 517-530	0.9	1
62	A Heuristic Approach Towards Drawings of Graphs with High Crossing Resolution. *Lecture Notes in Computer Science*, **2018**, 271-285	0.9	4

43	Vertex-Coloring with Star-Defects. *Lecture Notes in Computer Science*, **2016**, 40-51	0.9	1
42	On the Total Number of Bends for Planar Octilinear Drawings. *Lecture Notes in Computer Science*, **2016**, 152-163	0.9	1
41	On the Density of Non-simple 3-Planar Graphs. *Lecture Notes in Computer Science*, **2016**, 344-356	0.9	6
40	Sloginsky drawings of graphs **2015**,		1
39	Planar Octilinear Drawings with One Bend Per Edge. *Journal of Graph Algorithms and Applications*, **2015**, 19, 657-680	1.5	7
38	Many-to-One Boundary Labeling with Backbones. *Journal of Graph Algorithms and Applications*, **2015**, 19, 779-816	1.5	9
37	Simultaneous Drawing of Planar Graphs with Right-Angle Crossings and Few Bends. *Lecture Notes in Computer Science*, **2015**, 222-233	0.9	3
36	1-Planar Graphs have Constant Book Thickness. *Lecture Notes in Computer Science*, **2015**, 130-141	0.9	6
35	The Effect of Almost-Empty Faces on Planar Kandinsky Drawings. *Lecture Notes in Computer Science* , **2015**, 352-364	0.9	3
34	The Book Embedding Problem from a SAT-Solving Perspective. *Lecture Notes in Computer Science*, **2015**, 125-138	0.9	5
33	The Maximum k-Differential Coloring Problem. *Lecture Notes in Computer Science*, **2015**, 115-127	0.9	
32	A note on maximum differential coloring of planar graphs. *Journal of Discrete Algorithms*, **2014**, 29, 1-7		5
31	Sloggy drawings of graphs **2014**,		2
30	Smooth Orthogonal Drawings of Planar Graphs. *Lecture Notes in Computer Science*, **2014**, 144-155	0.9	5
29	On the Recognition of Fan-Planar and Maximal Outer-Fan-Planar Graphs. *Lecture Notes in Computer Science*, **2014**, 198-209	0.9	11
28	Slanted Orthogonal Drawings: Model, Algorithms and Evaluations. *Journal of Graph Algorithms and Applications*, **2014**, 18, 459-489	1.5	2
27	Improved Approximation Algorithms for Box Contact Representations. *Lecture Notes in Computer Science*, **2014**, 87-99	0.9	1
26	Maximizing the Total Resolution of Graphs. *Computer Journal*, **2013**, 56, 887-900	1.3	13

25	Geometric RAC Simultaneous Drawings of Graphs. *Journal of Graph Algorithms and Applications*, **2013**, 17, 11-34	1.5	14
24	Smooth Orthogonal Layouts. *Journal of Graph Algorithms and Applications*, **2013**, 17, 575-595	1.5	9
23	Many-to-One Boundary Labeling with Backbones. *Lecture Notes in Computer Science*, **2013**, 244-255	0.9	3
22	Circle-Representations of Simple 4-Regular Planar Graphs. *Lecture Notes in Computer Science*, **2013**, 138-149	0.9	
21	Slanted Orthogonal Drawings. *Lecture Notes in Computer Science*, **2013**, 424-435	0.9	2
20	Smooth Orthogonal Layouts. *Lecture Notes in Computer Science*, **2013**, 150-161	0.9	5
19	The Straight-Line RAC Drawing Problem is NP-Hard. *Journal of Graph Algorithms and Applications*, **2012**, 16, 569-597	1.5	29
18	Geometric RAC Simultaneous Drawings of Graphs. *Lecture Notes in Computer Science*, **2012**, 287-298	0.9	2
17	Combining Problems on RAC Drawings and Simultaneous Graph Drawings. *Lecture Notes in Computer Science*, **2012**, 433-434	0.9	
16	The Straight-Line RAC Drawing Problem Is NP-Hard. *Lecture Notes in Computer Science*, **2011**, 74-85	0.9	11
15	Combining Traditional Map Labeling with Boundary Labeling. *Lecture Notes in Computer Science*, **2011**, 111-122	0.9	9
14	Maximizing the Total Resolution of Graphs. *Lecture Notes in Computer Science*, **2011**, 62-67	0.9	6
13	Area-Feature Boundary Labeling. *Computer Journal*, **2010**, 53, 827-841	1.3	19
12	Boundary Labeling with Octilinear Leaders. *Algorithmica*, **2010**, 57, 436-461	0.9	31
11	On Metro-Line Crossing Minimization. *Journal of Graph Algorithms and Applications*, **2010**, 14, 75-96	1.5	11
10	Two Polynomial Time Algorithms for the Metro-line Crossing Minimization Problem. *Lecture Notes in Computer Science*, **2009**, 336-347	0.9	4
9	Boundary Labeling with Octilinear Leaders. *Lecture Notes in Computer Science*, **2008**, 234-245	0.9	2
8	Efficient Labeling of Collinear Sites. *Journal of Graph Algorithms and Applications*, **2008**, 12, 357-380	1.5	7

List of Publications

7	Boundary labeling: Models and efficient algorithms for rectangular maps. *Computational Geometry: Theory and Applications*, **2007**, 36, 215-236	0.4	57
6	Labeling collinear sites **2007**,		1
5	Line Crossing Minimization on Metro Maps **2007**, 231-242		14
4	BLer: A Boundary Labeller for Technical Drawings. *Lecture Notes in Computer Science*, **2006**, 503-504	0.9	3
3	Multi-stack Boundary Labeling Problems. *Lecture Notes in Computer Science*, **2006**, 81-92	0.9	12
2	Boundary Labelling of Optimal Total Leader Length. *Lecture Notes in Computer Science*, **2005**, 80-89	0.9	2
1	Boundary Labeling: Models and Efficient Algorithms for Rectangular Maps. *Lecture Notes in Computer Science*, **2005**, 49-59	0.9	15