

Michael A Bekos

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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

79	Guest Editors Foreword and Overview. <i>Journal of Graph Algorithms and Applications</i> , 2018 , 22, 1-10	1.5	10
78	External Labeling Techniques: A Taxonomy and Survey. <i>Computer Graphics Forum</i> , 2019 , 38, 833-860	2.4	9
77	Smooth Orthogonal Layouts. <i>Journal of Graph Algorithms and Applications</i> , 2013 , 17, 575-595	1.5	9
76	Many-to-One Boundary Labeling with Backbones. <i>Journal of Graph Algorithms and Applications</i> , 2015 , 19, 779-816	1.5	9
75	Combining Traditional Map Labeling with Boundary Labeling. <i>Lecture Notes in Computer Science</i> , 2011 , 111-122	0.9	9
74	1-Fan-bundle-planar drawings of graphs. <i>Theoretical Computer Science</i> , 2018 , 723, 23-50	1.1	7
73	Efficient Labeling of Collinear Sites. <i>Journal of Graph Algorithms and Applications</i> , 2008 , 12, 357-380	1.5	7
72	Planar Octilinear Drawings with One Bend Per Edge. <i>Journal of Graph Algorithms and Applications</i> , 2015 , 19, 657-680	1.5	7
71	Vertex-Coloring with Defects. <i>Journal of Graph Algorithms and Applications</i> , 2017 , 21, 313-340	1.5	7
70	On the Relationship Between k-Planar and k-Quasi-Planar Graphs. <i>Lecture Notes in Computer Science</i> , 2017 , 59-74	0.9	7
69	Planar Graphs of Bounded Degree Have Bounded Queue Number. <i>SIAM Journal on Computing</i> , 2019 , 48, 1487-1502	1.1	7
68	Queue Layouts of Planar 3-Trees. <i>Lecture Notes in Computer Science</i> , 2018 , 213-226	0.9	6
67	1-Planar Graphs have Constant Book Thickness. <i>Lecture Notes in Computer Science</i> , 2015 , 130-141	0.9	6
66	On the Density of Non-simple 3-Planar Graphs. <i>Lecture Notes in Computer Science</i> , 2016 , 344-356	0.9	6
65	Maximizing the Total Resolution of Graphs. <i>Lecture Notes in Computer Science</i> , 2011 , 62-67	0.9	6
64	Edge partitions of optimal 2-plane and 3-plane graphs. <i>Discrete Mathematics</i> , 2019 , 342, 1038-1047	0.7	6
63	Simple k-planar graphs are simple (k + 1)-quasiplanar. <i>Journal of Combinatorial Theory Series B</i> , 2020 , 142, 1-35	1.1	6
62	On 3D visibility representations of graphs with few crossings per edge. <i>Theoretical Computer Science</i> , 2019 , 784, 11-20	1.1	5

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

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

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

- 7 Geometric Representations of Dichotomous Ordinal Data. *Lecture Notes in Computer Science*, **2019**, 205-217
- 6 k -Planar Graphs **2020**, 109-130
- 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
- 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