

## References

- [1] Zachary Abel, Erik D. Demaine, Martin L. Demaine, David Eppstein, Anna Lubiw, and Ryuhei Uehara. Flat foldings of plane graphs with prescribed angles and edge lengths. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD'2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 272–283. Springer-Verlag, Berlin-Heidelberg, 2014.
- [2] Eyal Ackerman and Marcus Schaefer. A crossing lemma for the pair-crossing number. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD'2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 222–233. Springer-Verlag, Berlin-Heidelberg, 2014.
- [3] Oswin Aichholzer, Thomas Hackl, Sarah Lutteropp, Tamara Mchedlidze, and Birgit Vogtenhuber. Embedding four-directional paths on convex point sets. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD'2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 355–366. Springer-Verlag, Berlin-Heidelberg, 2014.
- [4] Md. Jawaherul Alam, David Eppstein, Michael T. Goodrich, Stephen G. Kobourov, and Sergey Pupyrev. Balanced circle packings for planar graphs. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD'2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 125–136. Springer-Verlag, Berlin-Heidelberg, 2014.
- [5] Patrizio Angelini, Giordano Da Lozzo, Marco Di Bartolomeo, Giuseppe Di Battista, Seok-Hee Hong, Maurizio Patrignani, and Vincenzo Roselli. Anchored drawings of planar graphs. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD'2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 404–415. Springer-Verlag, Berlin-Heidelberg, 2014.
- [6] Patrizio Angelini, Giordano Da Lozzo, Giuseppe Di Battista, Fabrizio Frati, and Vincenzo Roselli. The importance of being proper (in

clustered-level planarity and  $t$ -level planarity). In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD'2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 246–258. Springer-Verlag, Berlin-Heidelberg, 2014.

- [7] Jan Christoph Athenstädt, Tanja Hartmann, and Martin Nöllenburg. Simultaneous embeddability of two partitions. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD'2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 64–75. Springer-Verlag, Berlin-Heidelberg, 2014.
- [8] Maximilian Aulbach, Martin Fink, Julian Schuhmann, and Alexander Wolff. Drawing graphs within restricted area. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD'2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 367–379. Springer-Verlag, Berlin-Heidelberg, 2014.
- [9] Michael J. Bannister, William E. Devanny, David Eppstein, and Michael T. Goodrich. The galois complexity of graph drawing: Why numerical solutions are ubiquitous for force-directed, spectral, and circle packing drawings. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD'2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 149–161. Springer-Verlag, Berlin-Heidelberg, 2014.
- [10] Michael J. Bannister and David Eppstein. Crossing minimization for 1-page and 2-page drawings of graphs with bounded treewidth. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD'2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 210–221. Springer-Verlag, Berlin-Heidelberg, 2014.
- [11] Fidel Barrera-Cruz, Penny Haxell, and Anna Lubiw. Morphing schnyder drawings of planar triangulations. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD'2014 (Würzburg, Germany, September*

24-26, 2014), volume 8871 of *LNCS*, pages 294–305. Springer-Verlag, Berlin-Heidelberg, 2014.

- [12] Michael A. Bekos, Sabine Cornelsen, Luca Grilli, Seok-Hee Hong, and Michael Kaufmann. On the recognition of fan-planar and maximal outer-fan-planar graphs. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD’2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 198–209. Springer-Verlag, Berlin-Heidelberg, 2014.
- [13] Michael A. Bekos, Martin Gronemann, Michael Kaufmann, and Robert Krug. Planar octilinear drawings with one bend per edge. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD’2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 331–342. Springer-Verlag, Berlin-Heidelberg, 2014.
- [14] Therese Biedl. Height-preserving transformations of planar graph drawings. In *Proceedings of the 22nd International Symposium on Graph Drawing, GD’2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 380–391. 2014.
- [15] Carla Binucci, Emilio Di Giacomo, Walter Didimo, Fabrizio Montecchiani, Maurizio Patrignani, and Ioannis G. Tollis. Fan-planar graphs: Combinatorial properties and complexity results. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD’2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 186–197. Springer-Verlag, Berlin-Heidelberg, 2014.
- [16] Thomas Bläsius and Ignaz Rutter. A new perspective on clustered planarity as a combinatorial embedding problem. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD’2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 440–451. Springer-Verlag, Berlin-Heidelberg, 2014.
- [17] Glencora Borradaile, David Eppstein, and Pingan Zhu. Planar induced subgraphs of sparse graphs. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph*

*Drawing, GD’2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 1–12. Springer-Verlag, Berlin-Heidelberg, 2014.

- [18] Timothy M. Chan, Fabrizio Frati, Carsten Gutwenger, Anna Lubiw, Petra Mutzel, and Marcus Schaefer. Drawing partially embedded and simultaneously planar graphs. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD’2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 25–39. Springer-Verlag, Berlin-Heidelberg, 2014.
- [19] Markus Chimani, Giuseppe Di Battista, Fabrizio Frati, and Karsten Klein. Advances on testing  $c$ -planarity of embedded flat clustered graphs. In *Proceedings of the 22nd International Symposium on Graph Drawing, GD’2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 416–427. 2014.
- [20] Hooman Reisi Dehkordi, Fabrizio Frati, and Joachim Gudmundsson. Increasing-chord graphs on point sets. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD’2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 464–475. Springer-Verlag, Berlin-Heidelberg, 2014.
- [21] Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Henk Meijer, and Stephen Wismath. Planar and quasi planar simultaneous geometric embedding. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD’2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 52–63. Springer-Verlag, Berlin-Heidelberg, 2014.
- [22] Emilio Di Giacomo, Giuseppe Liotta, and Fabrizio Montecchiani. Drawing outer 1-planar graphs with few slopes. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD’2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 174–185. Springer-Verlag, Berlin-Heidelberg, 2014.

- [23] Walter Didimo, Giuseppe Liotta, and Maurizio Patrignani. On the complexity of hv-rectilinear planarity testing. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD'2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 343–354. Springer-Verlag, Berlin-Heidelberg, 2014.
- [24] Stephane Durocher and Debajyoti Mondal. Drawing planar graphs with reduced height. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD'2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 392–403. Springer-Verlag, Berlin-Heidelberg, 2014.
- [25] Stephane Durocher and Debajyoti Mondal. Trade-offs in planar polyline drawings. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD'2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 306–318. Springer-Verlag, Berlin-Heidelberg, 2014.
- [26] Alon Efrat, Yifan Hu, Stephen G. Kobourov, and Sergey Pupyrev. Mapsets: Visualizing embedded and clustered graphs. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD'2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 452–463. Springer-Verlag, Berlin-Heidelberg, 2014.
- [27] William Evans, Vincent Kusters, Maria Saumell, and Bettina Speckmann. Column planarity and partial simultaneous geometric embedding. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD'2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 259–271. Springer-Verlag, Berlin-Heidelberg, 2014.
- [28] Radoslav Fulek, Jan Kynčl, Igor Malinović, and Dömötör Pálvölgyi. Clustered planarity testing revisited. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD'2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 428–439. Springer-Verlag, Berlin-Heidelberg, 2014.

- [29] Luca Grilli, Seok-Hee Hong, Jan Kratochvíl, and Ignaz Rutter. Drawing simultaneously embedded graphs with few bends. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD'2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 40–51. Springer-Verlag, Berlin-Heidelberg, 2014.
- [30] Martin Gronemann. Bitonic  $st$ -orderings of biconnected planar graphs. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD'2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 162–173. Springer-Verlag, Berlin-Heidelberg, 2014.
- [31] Carsten Gutwenger, Maarten Löffler, Lev Nachmanson, and Ignaz Rutter. Graph drawing contest report. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD'2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 501–506. Springer-Verlag, Berlin-Heidelberg, 2014.
- [32] Yifan Hu and Lei Shi. A coloring algorithm for disambiguating graph and map drawings. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD'2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 89–100. Springer-Verlag, Berlin-Heidelberg, 2014.
- [33] Philipp Kindermann, Fabian Lipp, and Alexander Wolff. Luatodonotes: Boundary labeling for annotations in texts. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD'2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 76–88. Springer-Verlag, Berlin-Heidelberg, 2014.
- [34] Philipp Kindermann, André Schulz, Joachim Spoerhase, and Alexander Wolff. On monotone drawings of trees. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD'2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 488–500. Springer-Verlag, Berlin-Heidelberg, 2014.

- [35] Linda Kleist and Benjamin Rahman. Unit contact representations of grid subgraphs with regular polytopes in 2d and 3d. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD'2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 137–148. Springer-Verlag, Berlin-Heidelberg, 2014.
- [36] Stephen G. Kobourov, Sergey Pupyrev, and Bahador Saket. Are crossings important for drawing large graphs? In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD'2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 234–245. Springer-Verlag, Berlin-Heidelberg, 2014.
- [37] Michael R. Marner, Ross T. Smith, Bruce H. Thomas, Karsten Klein, Peter Eades, and Seok-Hee Hong. Gion: Interactively untangling large graphs on wall-sized displays. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD'2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 113–124. Springer-Verlag, Berlin-Heidelberg, 2014.
- [38] Arlind Nocaj, Mark Ortmann, and Ulrik Brandes. Untangling hairballs: From 3 to 14 degrees of separation. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD'2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 101–112. Springer-Verlag, Berlin-Heidelberg, 2014.
- [39] Martin Nöllenburg, Roman Prutkin, and Ignaz Rutter. On self-approaching and increasing-chord drawings of 3-connected planar graphs. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD'2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 476–487. Springer-Verlag, Berlin-Heidelberg, 2014.
- [40] Ulf Rüegg, Steve Kieffer, Tim Dwyer, Kim Marriott, and Michael Wybrow. Stress-minimizing orthogonal layout of data flow diagrams with ports. In Christian Duncan and Antonios Symvonis, editors,

*Proceedings of the 22nd International Symposium on Graph Drawing, GD'2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 319–330. Springer-Verlag, Berlin-Heidelberg, 2014.

- [41] Andres J. Ruiz-Vargas, Andrew Suk, and Csaba D. Tóth. Disjoint edges in topological graphs and the tangled-thrackle conjecture. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD'2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 284–293. Springer-Verlag, Berlin-Heidelberg, 2014.
- [42] Marcus Schaefer. Picking planar edges; or, drawing a graph with a planar subgraph. In Christian Duncan and Antonios Symvonis, editors, *Proceedings of the 22nd International Symposium on Graph Drawing, GD'2014 (Würzburg, Germany, September 24-26, 2014)*, volume 8871 of *LNCS*, pages 13–24. Springer-Verlag, Berlin-Heidelberg, 2014.