

## References

- [1] Brad Andalman, Kathy Ryall, Wheeler Ruml, Joe Marks, and Stuart Shieber. Design gallery browsers based on 2d and 3d graph drawing. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 322–329. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [2] Naser S. Barghouti, John M. Mocenigo, and Wenke Lee. Grappa: A graph package in java. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 336–343. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [3] Jonathan Berry, Nathaniel Dean, Mark Goldberg, Gregory Shannon, and Steven Skiena. Graph drawing and manipulation with link. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 425–437. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [4] T. Biedl, T. Shermer, S. Whitesides, and S. Wismath. Orthogonal 3-d graph drawing. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 76–86. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [5] Therese C. Biedl, Brendan P. Madden, and Ioannis G. Tollis. The three-phase method: A unified approach to orthogonal graph drawing. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 391–402. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.

- [6] Prosenjit Bose. On embedding an outer-planar graph in a point set. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 25–36. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [7] F.J. Brandenburg. Graph clustering i: Cycles of cliques. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 158–168. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [8] Ulrik Brandes and Dorothea Wagner. A bayesian paradigm for dynamic graph layout. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 236–247. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [9] Stina S. Bridgeman, Jody Fanto, Ashim Garg, Roberto Tamassia, and Luca Vismara. Interactivegiotto: An algorithm for interactive orthogonal graph drawing. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 303–308. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [10] Tiziana Calamoneri and Annalisa Massini. On three-dimensional layout of interconnection networks. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 64–75. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [11] P. Crescenzi and P. Penna. Minimum-area  $h - v$  drawings of complete binary trees. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy,*

*September 18-20, 1997*), volume 1353 of *LNCS*, pages 371–382. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.

- [12] Jurek Czyzowicz, Evangelos Kranakis, Danny Krizanc, and Jorge Urrutia. Discrete realizations of contact and intersection graphs. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 359–370. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [13] H. de Fraysseix and P. Ossona de Mendez. A short proof of a gauss problem. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 230–235. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [14] Walter Didimo and Antonio Leonforte. Grid: An interactive tool for computing orthogonal drawings with the minimum number of bends. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 309–315. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [15] David P. Dobkin, Emden R. Gansner, Eleftherios Koutsofios, and Stephen C. North. Implementing a general-purpose edge router. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 262–271. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [16] Peter Eades, Robert F. Cohen, and Mao Lin Huang. Online animated graph drawing for web navigation. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97*

- (Rome, Italy, September 18-20, 1997), volume 1353 of *LNCS*, pages 330–335. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [17] Peter Eades and Qing-Wen Feng. Drawing clustered graphs on an orthogonal grid. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 146–157. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [18] Peter Eades, Michael E. Houle, and Richard Webber. Finding the best viewpoints for three-dimensional graph drawings. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 87–98. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [19] Peter Eades, Joe Marks, and Stephen North. Graph-drawing contest report. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 438–445. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [20] Sándor P. Fekete, Michael E. Houle, and Sue Whitesides. The wobbly logic engine: Proving hardness on non-rigid geometric graph representation problems. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 272–283. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [21] Ulrich Föössmeier. Interactive orthogonal graph drawing: Algorithms and bounds. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 111–123. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.

- [22] Ulrich Fössmeier and Michael Kaufmann. Algorithms and area bounds for nonplanar orthogonal drawings. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 134–145. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [23] A. García, C. Hernando, F. Hurtado, M. Noy, and J. Tejel. Packing trees into planar graphs. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 383–390. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [24] M.A. Garrido and A. Márquez. Embedding a graph in the grid of a surface with the minimum number of bends is  $np$ -hard. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 124–133. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [25] Petr Hliněný. Touching graphs of unit balls. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 350–358. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [26] Christoph Hundack, Petra Mutzel, Igor Pouchkarev, and Stefan Thome. Arche: A graph drawing system for archaeology. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 297–302. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [27] Claudia Iturriaga and Anna Lubiw. Elastic labels: The two-axis case. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September*

- 18-20, 1997), volume 1353 of *LNCS*, pages 181–192. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [28] Michael Jünger, Eva K. Lee, Petra Mutzel, and Thomas Odenthal. A polyhedral approach to the multi-layer crossing minimization problem. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 13–24. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [29] Michael Jünger, Sebastian Leipert, and Petra Mutzel. Pitfalls of using  $pq$ -trees in automatic graph drawing. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 193–204. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [30] Konstantinos G. Kakoulis and Ioannis G. Tollis. An algorithm for labeling edges of hierarchical drawings. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 169–180. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [31] Harald Lauer, Matthias Ettrich, and Klaus Soukup. Gravis — system demonstration. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 344–349. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [32] William Lenhart and Giuseppe Liotta. Drawable and forbidden minimum weight triangulations. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 1–12. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.

- [33] Xuemin Lin and Peter Eades. Area requirements for drawing hierarchically planar graphs. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 219–229. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [34] János Pach, Torsten Thiele, and Géza Tóth. Three-dimensional grid drawings of graphs. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 47–51. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [35] Achilleas Papakostas and Ioannis G. Tollis. Incremental orthogonal graph drawing in three dimensions. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 52–63. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [36] Maurizio Patrignani and Francesco Vargiu. 3dcube: A tool for three dimensional graph drawing. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 284–290. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [37] Helen Purchase. Which aesthetic has the greatest effect on human understanding? In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 248–261. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [38] Md. Saidur Rahman, Shin-ichi Nakano, and Takao Nishizeki. A linear algorithm for optimal orthogonal drawings of triconnected cubic plane graphs. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 99–110. Springer-Verlag,

Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.

- [39] Tom Roxborough and Arunabha Sen. Graph clustering using multiway ratio cut. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 291–296. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [40] Jochen Seemann. Extending the sugiyama algorithm for drawing uml class diagrams: Towards automatic layout of object-oriented software diagrams. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 415–424. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [41] Farhad Shahrokhi, Ondrej Sýkora, László A. Székely, and Imrich Vrt'ó. Bipartite crossing numbers of meshes and hypercubes. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 37–46. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [42] Daniel Tunkelang, Roy J. Byrd, and James W. Cooper. Lexical navigation: Using incremental graph drawing for query refinement. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 316–321. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.
- [43] Pavel Valtr. Graph drawing with no  $k$  pairwise crossing edges. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 205–218. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.



- [44] Graham J. Wills. Nicheworks — interactive visualization of very large graphs. In Giuseppe DiBattista, editor, *Proceedings of the 5th International Symposium on Graph Drawing, GD'97 (Rome, Italy, September 18-20, 1997)*, volume 1353 of *LNCS*, pages 403–414. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Budapest-Hong Kong-London-Milan-Paris-Santa Clara-Singapore-Tokyo, 1998.