A Bibliography of Tree Drawing Algorithms

Nelson H. F. Beebe
University of Utah
Department of Mathematics, 110 LCB
155 S 1400 E RM 233
Salt Lake City, UT 84112-0090
USA

Tel: +1 801 581 5254
FAX: +1 801 581 4148

E-mail: `beebe@math.utah.edu`, `beebe@acm.org`, `beebe@computer.org` (Internet)
WWW URL: `http://www.math.utah.edu/~beebe/`

04 September 2023
Version 3.28

Abstract

This bibliography collects papers and reports on algorithms for the drawing of trees.

Title word cross-reference

References

Akkerman:2004:CDT

[ABJT04] Thorsten Akkerman, Christoph Buchheim, Michael Jünger, and Daniel Teske. On the complexity of drawing trees nicely: corrigendum. *Acta Informatica*, 40(8):603–607, July 2004. CODEN AINFA2. ISSN 0001-5903 (print), 1432-0525 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=0001-5903&volume=40&issue=8&spage=603`. See [SR83].

ACM:1989:PIW

[ACM89] ACM, editor. *Proceedings of the 2nd International Workshop on Software Configuration Management, Princeton, New Jersey, October 24, 1989*. ACM Press, New York, NY 10036, USA, 1989. ISBN 0-89791-334-5. LCCN QA76.76.C69 I58 1989.

ACM:1990:UTA

[ACM90] ACM, editor. *UIST. Third Annual Symposium on User Interface Software and Technology. Proceedings of the ACM SIGGRAPH Symposium, Snowbird, Utah, USA, October 3–5, 1990*. ACM Press, New York, NY 10036, USA, October 1990. CODEN CGRADI, CPGPBZ. ISBN 0-89791-410-4. ISSN 0097-8930. LCCN QA76.9.U83A27 1990. URL `http://info.acm.org/pubs/contents/proceedings/graph/`.

Anonymous:1985:M

[Ano85] Anonymous. Magic. Technical report, University of California, Berkeley, Berkeley, CA, 1985. Discusses a tool for drawing VLSI layouts.

Andalman:1997:DGB

[ARRM97] B. Andalman, K. Ryall, W. Ruml, and J. Marks. Design gallery browsers based on 2D and 3D graph drawing. *Lecture Notes in Computer Science*, 1353:322–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Bertolazzi:1998:COD

[BDD98] P. Bertolazzi, G. Di Battista, and W. Didimo. Computing orthogonal drawings with the minimum number of bends. *Lecture Notes in Computer Science*, 1272:331–??, 1998. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Berry:1997:GDM

[BDGS97] J. Berry, N. Dean, M. Goldberg, and G. Shannon. Graph drawing and manipulation with LINK. *Lecture Notes in Computer Science*, 1353:425–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Buti:1995:GSP

[BDLT95] L. Buti, G. Di Battista, G. Liotta, and E. Tassinari. GD-Workbench: a system for prototyping and testing graph drawing algorithms. *Lecture Notes in Computer Science*, 1027: 111–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Bertault:1995:ADS

[Ber95] F. Bertault. Adocs: a drawing system for generic combinatorial structures. *Lecture Notes in Computer Science*, 1027:24–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Bridgeman:1997:IAI

[BFGT97] S. S. Bridgeman, J. Fanto, A. Garg, and R. Tamassia. InteractiveGiotto: An algorithm for interactive orthogonal graph drawing. *Lecture Notes in Computer Science*, 1353:303–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Bose:1995:DNP

[BGRT95] P. Bose, F. Gomez, P. Ramos, and G. Toussaint. Drawing nice projections of objects in space. *Lecture Notes in Computer Science*, 1027: 52–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Bridgeman:1997:GDT

[BGT97] S. Bridgeman, A. Garg, and R. Tamassia. A graph drawing and translation service on the WWW. *Lecture Notes in Computer Science*, 1190:45–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Brandenburg:1995:ECF

[BHR95] F. J. Brandenburg, M. Himsolt, and C. Rohrer. An experimental comparison of force-directed and randomized graph drawing algorithms. *Lecture Notes in Computer Science*, 1027:76–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Biedl:1995:NLB

[Bie95] T. C. Biedl. New lower bounds for orthogonal graph drawings. *Lecture Notes in Computer Science*, 1027: 28–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Biedl:1996:OOD

[Bie96] T. C. Biedl. Optimal orthogonal drawings of triconnected plane graphs. *Lecture Notes in Computer Science*, 1097:333–??, 1996. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Buchheim:2006:DRT

[BJL06] Christoph Buchheim, Michael Jünger, and Sebastian Leipert. Drawing rooted trees in linear time.

Software—Practice and Experience, 36(6):651–665, May 2006. CODEN SPEXBL. ISSN 0038-0644 (print), 1097-024X (electronic).

Biedl:1994:BHO

[BK94] T. Biedl and G. Kant. A better heuristic for orthogonal graph drawings. *Lecture Notes in Computer Science*, 855:24–??, 1994. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Biedl:1997:ASI

[BK97] T. C. Biedl and M. Kaufmann. Area-efficient static and incremental graph drawings. *Lecture Notes in Computer Science*, 1284:37–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Brueggeman-Klein:1989:DTN

[BKW89] Anne Brüggeman-Klein and Derrick Wood. Drawing trees nicely with TEX. *Electronic Publishing —Origination, Dissemination, and Design*, 2(2):101–115, July 1989. CODEN EPODEU. ISSN 0894-3982.

Brueggeman-Klein:1990:DTN

[BKW90] Anne Brüggeman-Klein and Derrick Wood. Drawing trees nicely with TEX. In Clark [Cla90], pages 185–206. ISBN 0-13-912296-6. LCCN Z253.4.T47 C45 1990. US$69.95.

Burkhard:1986:DAS

[BL86] B. Burkhard and M. Lee. Drawing Ada structure charts. *ACM SIGADA Ada Letters*, 6(3):71–80, June 1986. CODEN AALEE5. ISSN 1094-3641 (print), 1557-9476 (electronic).

Biedl:1997:TMU

[BMT97] T. C. Biedl, B. P. Madden, and I. G. Tollis. The three-phase method: a unified approach to orthogonal graph drawing. *Lecture Notes in Computer Science*, 1353: 391–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Brandenburg:1995:DGD

[Bra95] F. J. Brandenburg. Designing graph drawings by layout graph grammars. *Lecture Notes in Computer Science*, 894:416–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Brandenburg:1996:GDS

[Bra96] F. J. (Franz J.) Brandenburg, editor. *Graph drawing: Symposium on Graph Drawing, GD '95, Passau, Germany, September 20–22, 1995: proceedings*, volume 1027 of *Lecture Notes in Computer Science*. Springer-Verlag Inc., New York, NY, USA, 1996. CODEN LNCSD9. ISBN 3-540-60723-4 (softcover). ISSN 0302-9743 (print), 1611-3349 (electronic). LCCN T385 .S884 1995.

Biedl:1997:OGD

[BSWW97] T. Biedl, T. Shermer, S. Whitesides, and S. Wismath. Orthogonal 3-D graph drawing. *Lecture Notes in Computer Science*, 1353:76–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Carpano:1980:ADH

[Car80] M. Carpano. Automatic display of hierarchized graphs for computer aided decision analysis. *IEEE Transactions on Software Engineering*, SE-12(4):538–546, April 1980. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Cohen:1995:DGD

[CDTT95] Robert F. Cohen, Giuseppe Di Battista, Roberto Tamassia, and Ioannis G. Tollis. Dynamic graph drawings: Trees, series-parallel digraphs, and planar ST-Digraphs. *SIAM Journal on Computing*, 24 (5):970–1001, ???? 1995. CODEN SMJCAT. ISSN 0097-5397 (print), 1095-7111 (electronic).

Cohen:1995:TGD

[CELR95] R. F. Cohen, P. Eades, T. Lin, and F. Ruskey. Three-dimensional graph drawing. *Lecture Notes in Computer Science*, 894:1–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Cruz:1995:DGE

[CG95] I. F. Cruz and A. Garg. Drawing graphs by example efficiently: Trees and planar acyclic diagraphs. *Lecture Notes in Computer Science*, 894:404–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Chan:1997:OAA

[CGKT97] T. Chan, M. T. Goodrich, S. R. Kosaraju, and R. Tamassia. Optimizing area and aspect ratio in straight-line orthogonal tree drawings. *Lecture Notes in Computer Science*, 1190:63–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Chan:2002:NLA

[Cha02] T. M. Chan. A near-linear area bound for drawing binary trees. *Algorithmica*, 34(1):1–13, July 2002. CODEN ALGOEJ. ISSN 0178-4617 (print), 1432-0541 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=0178-4617&volume=34&issue=1&spage=1`.

Choi:2000:PPT

[CJKC00] J-H. Choi, H-Y. Jung, H-S. Kim, and H-G. Cho. PhyloDraw: a phylogenetic tree drawing system. *Bioinformatics*, 16(11):1056–1058, November 2000. CODEN ???? ISSN 1367-4803 (print), 1367-4811 (electronic).

Clark:1990:TAP

[Cla90] Malcolm Clark, editor. *TEX—Applications, Uses, Methods*. Ellis Horwood, New York, NY, USA, 1990. ISBN 0-13-912296-6. LCCN Z253.4.T47 C45 1990. US$69.95.

Chrobak:1995:MGD

[CN95] M. Chrobak and S. Nakano. Minimum-width grid drawings of plane graphs. *Lecture Notes in Computer Science*, 894:104–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Calamoneri:1995:EOG

[CP95a] T. Calamoneri and R. Petreschi. An efficient orthogonal grid drawing algorithm for cubic graphs. *Lecture Notes in Computer Science*, 959:31–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Chrobak:1995:LTA

[CP95b] M. Chrobak and T. H. Payne. A linear-time algorithm for drawing a planar graph on a grid. *Information Processing Letters*, 54(4):241–246, May 26, 1995. CODEN IFPLAT. ISSN 0020-0190 (print), 1872-6119 (electronic).

Crescenzi:1995:OUD

[CP95c] P. Crescenzi and A. Piperno. Optimal-area upward drawings of AVL trees. *Lecture Notes in Computer Science*, 894:307–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Crescenzi:1997:MHD

[CP97a] P. Crescenzi and P. Penna. Minimum-area h-v drawings of complete binary trees. *Lecture Notes in Computer Science*, 1353:371–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Crescenzi:1997:UDS

[CP97b] P. Crescenzi and P. Penna. Upward drawings of search trees. *Lecture Notes in Computer Science*, 1197: 114–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Calamoneri:1997:DGO

[CS97] T. Calamoneri and A. Sterbini. Drawing 2-, 3- and 4-colorable graphs in $O(n^2)$ volume. *Lecture Notes in Computer Science*, 1190: 53–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Cruz:1995:GDS

[CT95] I. F. Cruz and J. P. Twarog. 3D graph drawing with simulated annealing. *Lecture Notes in Computer Science*, 1027:162–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Duncan:1998:BAR

[DGK98] C. A. Duncan, M. T. Goodrich, and S. G. Kobourov. Balanced aspect ratio trees and their use for drawing very large graphs. *Lecture Notes in Computer Science*, 1547:111–124, 1998. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

DiBattista:1997:DDA

[DGLP97] G. Di Battista, A. Garg, G. Liotta, and A. Parise. Drawing directed acyclic graphs: An experimental study. *Lecture Notes in Computer Science*, 1190:76–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Davidson:1996:DGN

[DH96] Ron Davidson and David Harel. Drawing graphs nicely using simulated annealing. *ACM Transactions on Graphics*, 15(4):301–331, October 1996. CODEN ATGRDF. ISSN

0730-0301 (print), 1557-7368 (electronic). URL `http://www.acm.org/pubs/toc/Abstracts/0730-0301/234538.html`.

DiBattista:1997:GDI

[Di 97] Giuseppe Di Battista, editor. *Graph drawing: 5th International Symposium, GD'97, Rome, Italy, September 18–20, 1997: proceedings*, volume 1353 of *Lecture Notes in Computer Science*. Springer-Verlag Inc., New York, NY, USA, 1997. CODEN LNCSD9. ISBN 3-540-63938-1. ISSN 0302-9743 (print), 1611-3349 (electronic). LCCN QA267.A1 L43 no.1353.

Djidjev:1995:DGC

[Dji95] H. N. Djidjev. On drawing a graph convexly in the plane. *Lecture Notes in Computer Science*, 894:76–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Didimo:1997:GIT

[DL97] W. Didimo and A. Leonforte. GRID: An interactive tool for computing orthogonal drawings with the minimum number of bends. *Lecture Notes in Computer Science*, 1353:309–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

DiBattista:1993:SOR

[DLV93] G. Di Battista, G. Liotta, and F. Vargiu. Spirality of orthogonal representations and optimal drawings of series-parallel graphs and 3-Planar graphs. *Lecture Notes in Computer Science*, 709:151–??, 1993. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

DeLaHiguera:1997:DET

[DN97] C. De La Higuera and L. Nourine. Drawing and encoding two-dimensional posets. *Theoretical Computer Science*, 175(2):293–308, April 10, 1997. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

DiBattista:1988:APR

[DT88] Giuseppe Di Battista and Roberto Tamassia. Algorithms for plane representations of acyclic digraphs. *Theoretical Computer Science*, 61(2-3):175–198, November 1988. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

DiBattista:1996:APT

[DV96] Giuseppe Di Battista and Luca Vismara. Angles of planar triangular graphs. *SIAM Journal on Discrete Mathematics*, 9(3):349–359, August 1996. CODEN SJDMEC. ISSN 0895-4801 (print), 1095-7146 (electronic).

Eades:1984:HGD

[Ead84] Peter Eades. A heuristic for graph drawing. *Congressus Numerantium*, 42(??):149–160, ???? 1984. ISSN 0384-9864.

Eades:1996:GDM

[Ead96] P. Eades. Graph drawing methods. *Lecture Notes in Computer Science*, 1115:40–??, 1996. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Eades:1997:OAG

[ECH97] P. Eades, R. F. Cohen, and Mao Lin Huang. Online animated graph drawing for Web navigation. *Lecture Notes in Computer Science*, 1353: 330–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Eades:1997:DCG

[EF97] P. Eades and Q.-W Feng. Drawing clustered graphs on an orthogonal grid. *Lecture Notes in Computer Science*, 1353:146–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Eades:1997:SDA

[EFL97] P. Eades, Q. W. Feng, and X. Lin. Straight-line drawing algorithms for hierarchical graphs and clustered graphs. *Lecture Notes in Computer Science*, 1190:113–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Eades:1995:DSP

[EG95] P. Eades and P. Garvan. Drawing stressed planar graphs in three dimensions. *Lecture Notes in Computer Science*, 1027:212–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Eades:1997:FBV

[EHW97] P. Eades, M. E. Houle, and R. Webber. Finding the best viewpoints for three-dimensional graph drawings. *Lecture Notes in Computer Science*, 1353:87–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

ElGindy:1995:RRI

[ELLM95] H. ElGindy, G. Liotta, A. Lubiw, and H. Meijer. Recognizing rectangle of influence drawable graphs. *Lecture Notes in Computer Science*, 894:352–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Eades:1995:GDC

[EM95] P. Eades and J. Marks. Graph drawing contest report. *Lecture Notes in Computer Science*, 894:143–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Ellson:1996:TTE

[EN96] John Ellson and Stephen North. TclDG — a Tcl extension for dynamic graphs. Technical report, AT&T Bell Laboratories, Murray Hill, NJ, USA, 1996. 11 pp. URL `http://www.research.att.com/sw/tools/graphviz/EN96.pdf`.

Eppstein:1985:TT

[Epp85] David Eppstein. Trees in TeX. *TUGboat*, 6(1):31–35, March 1985. ISSN 0896-3207.

Eades:1996:TKB

[ESW96] Peter Eades, Charles Stirk, and Sue Whitesides. The techniques of Kolmogorov and Barzdin for three-dimensional orthogonal graph drawings. *Information Processing Letters*, 60(2):97–103, ???? 1996. CODEN IFPLAT. ISSN 0020-0190 (print), 1872-6119 (electronic).

Eades:1997:TAT

[ESW97] P. Eades, A. Symvonis, and S. Whitesides. Two algorithms for three dimensional orthogonal graph drawing. *Lecture Notes in Computer Science*, 1190:139–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Eades:1994:DGT

[EW94] P. Eades and S. Whitesides. Drawing graphs in two layers. *Theoretical Computer Science*, 131(2):361–374, September 12, 1994. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Feng:1995:HDP

[FCE95] Q.-W. Feng, R. F. Cohen, and P. Eades. How to draw a planar clustered graph. *Lecture Notes in Computer Science*, 959:21–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Formann:1993:DGP

[FHH+93] M. Formann, T. Hagerup, J. Haralambides, M. Kaufmann, F. T. Leighton, A. Symvonis, E. Welzl, and G. Woeginger. Drawing graphs in the plane with high resolution. *SIAM Journal on Computing*, 22(5):1035–1052, October 1993. CODEN SMJCAT. ISSN 0097-5397 (print), 1095-7111 (electronic).

Foessmeier:1995:DHD

[FK95a] U. Foessmeier and M. Kaufmann. Drawing high degree graphs with low bend numbers. *Lecture Notes in Computer Science*, 1027:254–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Foessmeier:1995:BOU

[FK95b] U. Foessmeier and M. Kaufmann. On bend-minimum orthogonal upward drawing of directed planar graphs. *Lecture Notes in Computer Science*, 894:52–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Foessmeier:1997:AAB

[FK97a] U. Foessmeier and M. Kaufmann. Algorithms and area bounds for nonplanar orthogonal drawings. *Lecture Notes in Computer Science*, 1353:134–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Foessmeier:1997:NDP

[FK97b] U. Foessmeier and M. Kaufmann. Nice drawings for planar bipartite graphs. *Lecture Notes in Computer Science*, 1203:122–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Foessmeier:1997:DPG

[FKK97] U. Foessmeier, G. Kant, and M. Kaufmann. 2-Visibility drawings of planar graphs. *Lecture Notes in Computer Science*, 1190:155–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Foessmeier:1997:IOG

[Foe97] U. Foessmeier. Interactive orthogonal graph drawing: Algorithms and bounds. *Lecture Notes in Computer*

Science, 1353:111–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Fruchterman:1991:GDF

[FR91] Thomas M. J. Fruchterman and Edward M. Reingold. Graph drawing by force-directed placement. *Software—Practice and Experience*, 21(11):1129–1164, November 1991. CODEN SPEXBL. ISSN 0038-0644 (print), 1097-024X (electronic).

Fraser:1981:SDE

[Fra81] C. W. Fraser. Syntax-directed editing of general data structures. *ACM SIGPLAN Notices*, 16(6):17–21, June 1981. CODEN SINODQ. ISSN 0362-1340 (print), 1523-2867 (print), 1558-1160 (electronic).

Fujita:1995:XDC

[Fuj95] Shinsaku Fujita. XΥMTEX for drawing chemical structural formulas. *TUGboat*, 16(1):80–88, March 1995. ISSN 0896-3207.

Gansner:2003:DGG

[Gan03] Emden R. Gansner. Drawing graphs with GraphViz. Technical report, AT&T Bell Laboratories, Murray Hill, NJ, USA, April 15, 2003. URL `http://www.research.att.com/sw/tools/graphviz/libguide.pdf`.

Garg:1995:DAG

[Gar95] A. Garg. On drawing angle graphs. *Lecture Notes in Computer Science*, 894:84–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Gansner:2002:DGD

[GKN02] Emden Gansner, Eleftherios Koutsofios, and Stephen North. Drawing graphs with `dot`. Technical report, AT&T Bell Laboratories, Murray Hill, NJ, USA, February 4, 2002. 40 pp. URL `http://www.research.att.com/sw/tools/graphviz/dotguide.pdf`.

Gansner:1993:TDD

[GKNV93] Emden R. Gansner, Eleftherios Koutsofios, Stephen C. North, and Kiem-Phong Vo. A technique for drawing directed graphs. *IEEE Transactions on Software Engineering*, 19(3):214–230, May 1993. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic). URL `http://www.research.att.com/sw/tools/graphviz/TSE93.pdf`.

Gansner:2000:OGV

[GN00] Emden R. Gansner and Stephen C. North. An open graph visualization system and its applications to software engineering. *Software—Practice and Experience*, 30(11):1203–1233, September 2000. CODEN SPEXBL. ISSN 0038-0644 (print), 1097-024X (electronic). URL `http://www.research.att.com/sw/tools/graphviz/GN99.pdf`; `http://www3.interscience.wiley.com/cgi-bin/abstract/72517075/START`; `http://www3.interscience.wiley.com/cgi-bin/fulltext?ID=72517075&PLACEBO=IE.pdf`.

Gansner:1988:DPD

[GNV88] E. R. Gansner, S. C. North, and K. P. Vo. DAG: a program that draws directed graphs. *Software —Practice and Experience*, 18(11): 1047–1062, November 1988. CODEN SPEXBL. ISSN 0038-0644 (print), 1097-024X (electronic).

Garg:2002:SLD

[GR02] Ashim Garg and Adrian Rusu. Straight-line drawings of binary trees with linear area and arbitrary aspect ratio. *Lecture Notes in Computer Science*, 2528:320–??, 2002. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.de/link/service/series/0558/bibs/2528/25280320.htm; http://link.springer.de/link/service/series/0558/papers/2528/25280320.pdf.

Gropp:1995:DC

[Gro95] H. Gropp. The drawing of configurations. *Lecture Notes in Computer Science*, 1027:267–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Guibas:1985:PMG

[GS85] Leonidas Guibas and Jorge Stolfi. Primitives for the manipulation of general subdivisions and computation of Voronoi diagrams. *ACM Transactions on Graphics*, 4(2):74–123, April 1985. CODEN ATGRDF. ISSN 0730-0301 (print), 1557-7368 (electronic).

Garg:1994:AGD

[GT94a] A. Garg and R. Tamassia. Advances in graph drawing. *Lecture Notes in Computer Science*, 778:12–??, 1994. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Garg:1994:PDA

[GT94b] A. Garg and R. Tamassia. Planar drawings and angular resolution: Algorithms and bounds. *Lecture Notes in Computer Science*, 855:12–??, 1994. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Garg:1997:NMC

[GT97] A. Garg and R. Tamassia. A new minimum cost flow algorithm with applications to graph drawing. *Lecture Notes in Computer Science*, 1190:201–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Hong:2003:DTS

[HE03] Seok-Hee Hong and Peter Eades. Drawing trees symmetrically in three dimensions. *Algorithmica*, 36(2):153–178, April 2003. CODEN ALGOEJ. ISSN 0178-4617 (print), 1432-0541 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=0178-4617&volume=36&issue=2&spage=153.

Hirabayashi:1999:DTP

[HIIN99] R. Hirabayashi, Y. T. Ikebe, K. Iwamura, and T. Nakayama. Drawing a tree on parallel lines. *Computers and Mathematics with Applications*, 37(11):171–176, June 1999. CODEN CMAPDK. ISSN 0898-1221 (print), 1873-7668 (electronic).

Himsolt:199x:G

[Him9x] M. Himsolt. Graphed 3.0, 199x. Available by anonymous ftp at ftp://forwiss.uni-passau.de/pub/local/graphed.

He:1995:REL

[HK95] X. He and M.-Y. Kao. Regular edge labelings and drawings of planar graphs. *Lecture Notes in Computer Science*, 894:96–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Hashemi:1995:UDP

[HKR95] S. M. Hashemi, A. Kisielewicz, and I. Rival. Upward drawings on planes and spheres. *Lecture Notes in Computer Science*, 1027:277–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Hutton:1996:UPD

[HL96] Michael D. Hutton and Anna Lubiw. Upward planar drawing of single-source acyclic digraphs. *SIAM Journal on Computing*, 25(2): 291–311, April 1996. CODEN SMJCAT. ISSN 0097-5397 (print), 1095-7111 (electronic).

Hundack:1997:AGD

[HMPT97] C. Hundack, P. Mutzel, I. Pouchkarev, and S. Thome. ArchE: a graph drawing system for archaeology. *Lecture Notes in Computer Science*, 1353:297–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Hope:1971:PGD

[Hop71] Alexander K. Hope. A planar graph drawing program. *Software —Practice and Experience*, 1(1):83–91, January/March 1971. CODEN SPEXBL. ISSN 0038-0644 (print), 1097-024X (electronic).

Ignatowicz:1995:DFG

[Ign95] J. Ignatowicz. Drawing force-directed graphs using Optigraph. *Lecture Notes in Computer Science*, 1027:333–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Juenger:1997:PUP

[JLM97] M. Juenger, S. Leipert, and P. Mutzel. Pitfalls of using PQ-Trees in automatic graph drawing. *Lecture Notes in Computer Science*, 1353:193–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Jourdan:1995:UDP

[JRZ95] G.-V. Jourdan, I. Rival, and N. Zaguia. Upward drawing on the plane grid using less ink. *Lecture Notes in Computer Science*, 894:318–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Koutsofios:1991:LTV

[KD91] Eleftherios Koutsofios and David Dobkin. Lefty: a two-view editor for technical pictures. In MacKay and Kidd [MK91], pages 67–76. ISBN 0-9695338-0-2. LCCN T385.P792 1991.

Kant:1997:REL

[KH97] G. Kant and Xin He. Regular edge labeling of 4-connected plane graphs and its applications in graph drawing problems. *Theoretical Computer*

Science, 172(1-2):175–193, February 10, 1997. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Kim:1997:LWL

[Kim97] Sung Kwon Kim. Logarithmic width, linear area upward drawing of AVL trees. *Information Processing Letters*, 63(6):303–307, ???? 1997. CODEN IFPLAT. ISSN 0020-0190 (print), 1872-6119 (electronic).

Kamada:1989:ADG

[KK89] Tomihisa Kamada and Satoru Kawai. An algorithm for drawing general undirected graphs. *Information Processing Letters*, 31(1):7–15, April 1989. CODEN IFPLAT. ISSN 0020-0190 (print), 1872-6119 (electronic).

Koutsofios:1991:DGD

[KN91] Eleftherios Koutsofios and Stephen North. Drawing graphs with *dot*. Technical Report 910904-59113-08TM, AT&T Bell Laboratories, Murray Hill, NJ, USA, September 1991.

Koutsofios:1994:EGD

[Kou94a] Eleftherios Koutsofios. Editing graphs with *dotty*. Technical report, AT&T Bell Laboratories, Murray Hill, NJ, USA, July 5, 1994. This report, and the program, is included in the `graphviz` package, available for non-commercial use at `http://www.research.att.com/sw/tools/graphviz/`.

Koutsofios:1994:EPL

[Kou94b] Eleftherios Koutsofios. Editing pictures with *lefty*. Technical report, AT&T Bell Laboratories, Murray Hill, NJ, USA, July 5, 1994. This report, and the program, is included in the `graphviz` package, available for non-commercial use at `http://www.research.att.com/sw/tools/graphviz/`.

Koutsofios:1996:DGD

[Kou96a] Eleftherios Koutsofios. Drawing graphs with *dot*. Technical report, AT&T Bell Laboratories, Murray Hill, NJ, USA, November 20, 1996. This report, and the program, is included in the `graphviz` package, available for non-commercial use at `http://www.research.att.com/sw/tools/graphviz/`.

Koutsofios:1996:EGD

[Kou96b] Eleftherios Koutsofios. Editing graphs with `dotty`. Technical report, AT&T Bell Laboratories, Murray Hill, NJ, USA, June 24, 1996. 32 pp. URL `http://www.research.att.com/sw/tools/graphviz/dottyguide.pdf`.

Koutsofios:1996:EPL

[Kou96c] Eleftherios Koutsofios. Editing pictures with `lefty`. Technical report, AT&T Bell Laboratories, Murray Hill, NJ, USA, June 24, 1996. 43 pp. URL `http://www.research.att.com/sw/tools/graphviz/leftyguide.pdf`.

Krishnamurthy:1991:EAM

[KR91] Balachander Krishnamurthy and David S. Rosenblum. An event-action model of computer-supported cooperative work: Design and implementation. In K. Gorling and C. Sattler, editors, *Proceedings of the International Workshop on Computer Supported Cooperative Work*, pages 132–145. ????, ????, 1991. IFIP TC 6/WG C.5.

Kaugars:1995:SAD

[KRB95] K. Kaugars, J. Reinfelds, and A. Brazma. A simple algorithm for drawing large graphs on small screens. *Lecture Notes in Computer Science*, 894:278–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Karrer:1990:REO

[KS90] A. Karrer and W. Scacchi. Requirements for an extensible object-oriented tree/graph editor. In ACM [ACM90], pages 84–91. CODEN CGRADI, CPGPBZ. ISBN 0-89791-410-4. ISSN 0097-8930. LCCN QA76.9.U83A27 1990. URL `http://info.acm.org/pubs/contents/proceedings/graph/`.

Kakoulis:1997:ALE

[KT97] K. C. Kakoulis and I. G. Tollis. An algorithm for labeling edges of hierarchical drawings. *Lecture Notes in Computer Science*, 1353:169–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Lang:1982:APD

[Lan82] T. Lang. Another program for drawing diagrams. *Software—Practice and Experience*, 12(5):397–404, May 1982. CODEN SPEXBL. ISSN 0038-0644 (print), 1097-024X (electronic).

Liotta:1995:CPD

[LD95] G. Liotta and G. Di Battista. Computing proximity drawings of trees in the 3-Dimensional space. *Lecture Notes in Computer Science*, 955: 239–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Lin:1997:ARD

[LE97] X. Lin and P. Eades. Area requirements for drawing hierarchically planar graphs. *Lecture Notes in Computer Science*, 1353:219–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Leguy:1991:DTS

[Leg91] Bernard Leguy. Drawing tree structures with GWEZ. *Cahiers GUTenberg*, 10–11:135–146, September 1991. ISSN 1140-9304.

Levine:1990:LGR

[Lev90] Michael J. S. Levine. A LaTeX graphics routine for drawing Feynman diagrams. *Computer Physics Communications*, 58(1 and 2):181–198, February/March 1990. Available in the CPC library, and from `listral@ib.rl.ac.uk` with an e-mail request `GET CPC INTRO CPCINDEX`.

Lewis:1975:TIS

[Lew75] J. W. Lewis. TREE: An interactive system for editing tree structures. *Computers and Graphics*, 1(1):65–68, May 1975. CODEN COGRD2. ISSN 0097-8493.

Lenhart:1995:HDO

[LL95] W. Lenhart and G. Liotta. How to draw outerplanar minimum weight triangulations. *Lecture Notes in Computer Science*, 1027:373–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Lenhart:1997:DFM

[LL97] W. Lenhart and G. Liotta. Drawable and forbidden minimum weight triangulations. *Lecture Notes in Computer Science*, 1353:1–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Manning:1995:SDG

[MACL95] J. Manning, M. Atallah, K. Cudjoe, and J. Lozito. A system for drawing graphs with geometric symmetry. *Lecture Notes in Computer Science*, 894:262–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Mallgren:1982:FSG

[Mal82] William R. Mallgren. Formal specification of graphic data types. *ACM Transactions on Programming Languages and Systems*, 4(4):687–710, October 1982. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).

Miyadera:1998:DFL

[MAUY98] Youzou Miyadera, Koushi Anzai, Hiroshi Unno, and Takeo Yaku. Depth-first layout algorithm for trees. *Information Processing Letters*, 66(4):187–194, May 29, 1998. CODEN IFPLAT. ISSN 0020-0190 (print), 1872-6119 (electronic).

Maclenan:1991:ADC

[MB91] M. P. Maclenan and G. M. Burns. An approach to drawing circuit diagrams for text books. *TUGboat*, 12 (1):66–69, March 1991. ISSN 0896-3207.

MacKay:1991:GIC

[MK91] S. MacKay and E. M. Kidd, editors. *Graphics Interface '91, Calgary, Alberta, 3–7 June 1991: proceedings*. Canadian Information Processing Society, 243 College St, 5th Floor, Toronto, Ontario M5T 2Y1, Canada, 1991. ISBN 0-9695338-0-2. LCCN T385.P792 1991.

Moen:1990:DDT

[Moe90] Sven Moen. Drawing dynamic trees. *IEEE Software*, 7(4):21–28, July 1, 1990. CODEN IESOEG. ISSN 0740-7459 (print), 0740-7459 (electronic).

Metaxas:1994:PHD

[MPS94] P. T. Metaxas, G. E. Pantziou, and A. Symvonis. Parallel *h*-*v* drawings of binary trees. *Lecture Notes in Computer Science*, 834:487–??, 1994. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Mohar:1995:FAU

[MR95] B. Mohar and P. Rosenstiehl. A flow approach to upward drawings of toroidal maps. *Lecture Notes in Computer Science*, 894:33–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

McCreary:1995:CGD

[MSG95] C. McCreary, F.-S. Shieh, and H. Gill. CG: a graph drawing system using graph-grammar parsing. *Lecture Notes in Computer Science*, 894:270–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Newbery:1989:ECM

[New89] Frances J. Newbery. Edge concentration: a method for clustering directed graphs. In ACM [ACM89], pages 78–85. ISBN 0-89791-334-5. LCCN QA76.76.C69 I58 1989. Also published as ACM SIGSOFT Software Engineering Notes, vol. 17, no. 7, November 1989.

North:1994:AGV

[NK94] Stephen C. North and Eleftherios Koutsofios. Applications of graph visualization. Technical report, AT&T Bell Laboratories, Murray Hill, NJ, USA, 1994. URL `http://www.research.att.com/sw/tools/graphviz/GI94.pdf`.

North:1992:NUG

[Nor92] Stephen C. North. NEATO user's guide. Technical Report 59113-921014-14TM, AT&T Bell Laboratories, Murray Hill, NJ, USA, October 14, 1992. This report, and the program, is included in the `graphviz` package, available for non-commercial use at `http://www.research.att.com/sw/tools/graphviz/`.

North:1997:GDS

[Nor97] Stephen C. North, editor. *Graph drawing: Symposium on Graph Drawing, GD '96, Berkeley, California, USA, September 18–20, 1996: proceedings*, volume 1190 of *Lecture Notes in Computer Science*. Springer-Verlag Inc., New York, NY, USA, 1997. CODEN LNCSD9. ISBN 3-540-62495-3. ISSN 0302-9743 (print), 1611-3349 (electronic). LCCN T385 .S884 1996.

North:19xx:ILD

[Norxx] Stephen C. North. Incremental layout in DynaDAG. Technical report, AT&T Bell Laboratories, Murray Hill, NJ, USA, 19xx. URL `http://www.research.att.com/sw/tools/graphviz/dynadag.pdf`.

North:2002:AT

[Nor02a] Stephen C. North. Agraph tutorial. Technical report, AT&T Bell Laboratories, Murray Hill, NJ, USA, August 2, 2002. 22 pp. URL `http://www.research.att.com/sw/tools/graphviz/Agraph.pdf`.

North:2002:DGN

[Nor02b] Stephen C. North. Drawing graphs with NEATO. Technical report, AT&T Bell Laboratories, Murray Hill, NJ, USA, April 10, 2002. 11 pp. URL http://www.research.att.com/sw/tools/graphviz/neatoguide.pdf.

Nichols:1987:EES

[NS87] H. K. (Howard K.) Nichols and D. (Dan) Simpson, editors. *ESEC '87: 1st European Software Engineering Conference, Strasbourg, France, September 9–11, 1987: proceedings*. Springer-Verlag Inc., New York, NY, USA, 1987. ISBN 0-387-18712-X. LCCN QA76.758 .E97 1987.

Newbery:1987:KBE

[NT87] Frances Newbery and Walter Tichy. Knowledge based editors for directed graphs. In Nichols and Simpson [NS87], pages 101–109. ISBN 0-387-18712-X. LCCN QA76.758 .E97 1987.

Ohl:1995:DFD

[Ohl95] Thorsten Ohl. Drawing Feynman diagrams with LaTeX and METAFONT. *Computer Physics Communications*, 90(2–3):340–354, October 1995. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). URL http://www.sciencedirect.com/science/article/pii/001046559590137S.

Paris:1995:ADC

[Par95] G. Paris. Automatic drawing of compound digraphs for a real-time power system simulator. *Lecture Notes in Computer Science*, 1027:431–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Purchase:1995:VGD

[PCJ95] H. C. Purchase, R. F. Cohen, and M. James. Validating graph drawing aesthetics. *Lecture Notes in Computer Science*, 1027:435–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Penna:2002:ATT

[Pen02] P. Penna. On the approximability of two tree drawing conventions. *Information Processing Letters*, 82(5):237–242, June 15, 2002. CODEN IFPLAT. ISSN 0020-0190 (print), 1872-6119 (electronic).

Papakostas:1995:IAB

[PT95a] A. Papakostas and I. G. Tollis. Improved algorithms and bounds for orthogonal drawings. *Lecture Notes in Computer Science*, 894:40–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Papakostas:1995:IIO

[PT95b] A. Papakostas and I. G. Tollis. Issues in interactive orthogonal graph drawing. *Lecture Notes in Computer Science*, 1027:419–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Papakostas:1997:IOG

[PT97] A. Papakostas and I. G. Tollis. Incremental orthogonal graph drawing in three dimensions. *Lecture Notes in Computer Science*, 1353:52–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Papakostas:1998:ODH

[PT98] A. Papakostas and I. G. Tollis. Orthogonal drawing of high degree graphs with small area and few bends. *Lecture Notes in Computer Science*, 1272:354–??, 1998. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Pach:1997:TGD

[PTT97] J. Pach, T. Thiele, and G. Toth. Three-dimensional grid drawings of graphs. *Lecture Notes in Computer Science*, 1353:47–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Patrignani:1997:TTD

[PV97] M. Patrignani and F. Vargiu. 3DCube: a tool for three dimensional graph drawing. *Lecture Notes in Computer Science*, 1353:284–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Radack:1988:TDM

[Rad88] G. M. Radack. Tidy drawing of M-ary trees. Technical Report CES-88-24, Department of Computer Engineering and Science, Case Western Reserve University, Cleveland, OH, USA, November 1988.

Rowe:1987:BDG

[RDM+87] Lawrence A. Rowe, Michael Davis, Eli Messinger, Carl Mayer, Charles Spirakis, and Allen Tuan. A browser for directed graphs. *Software—Practice and Experience*, 17 (1):61–76, January 1987. CODEN SPEXBL. ISSN 0038-0644 (print), 1097-024X (electronic).

Rahman:1996:RGD

[RNN96] S. M. Rahman, S.-I. Nakano, and T. Nishizeki. Rectangular grid drawings of plane graphs. *Lecture Notes in Computer Science*, 1090: 92–??, 1996. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Rahman:1997:LAO

[RNN97] M. Saidur Rahman, S.-I. Nakano, and T. Nishizeki. A linear algorithm for optimal orthogonal drawings of triconnected cubic plane graphs. *Lecture Notes in Computer Science*, 1353:99–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Reingold:1981:TDT

[RT81] E. M. Reingold and J. S. Tilford. Tidier drawing of trees. *IEEE Transactions on Software Engineering*, SE-7(2):223–228, March 1981. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Saalfeld:1995:MGG

[Saa95] A. Saalfeld. Map generalization as a graph drawing problem. *Lecture Notes in Computer Science*, 894: 444–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Seemann:1997:ESA

[See97] J. Seemann. Extending the sugiyama algorithm for drawing UML class diagrams: Towards automatic layout of object-oriented software diagrams. *Lecture Notes in Computer Science*, 1353:415–??,

1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Seyfarth:1992:DDP

[Sey92] Ray Seyfarth. Diag: a drawing preprocessor for LaTeX. *TUGboat*, 13 (4):478–485, December 1992. ISSN 0896-3207.

Shin:1996:AAU

[SKC96] C.-S. Shin, Sung Kwon Kim, and K.-Y. Chwa. Area-efficient algorithms for upward straight-line tree drawings. *Lecture Notes in Computer Science*, 1090:106–??, 1996. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Shin:2000:AEA

[SKC00] C.-S. Shin, S. K. Kim, and K.-Y. Chwa. Area-efficient algorithms for straight-line tree drawings. *Computational Geometry. Theory and Applications*, 15(4):175–202, April 2000. CODEN ???? ISSN 0925-7721.

Shieh:1995:DGD

[SM95a] F.-S. Shieh and C. L. McCreary. Directed graphs drawing by clan-based decomposition. *Lecture Notes in Computer Science*, 1027:472–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Sugiyama:1995:SUM

[SM95b] K. Sugiyama and K. Misue. A simple and unified method for drawing graphs: Magnetic-spring algorithm. *Lecture Notes in Computer Science*, 894:364–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Supowit:1983:CDT

[SR83] Kenneth J. Supowit and Edward M. Reingold. The complexity of drawing trees nicely. *Acta Informatica*, 18(4):377–392, January 1983. CODEN AINFA2. ISSN 0001-5903 (print), 1432-0525 (electronic). See corrigendum [ABJT04].

Sassani:1998:ADB

[SSH+98] D. C. Sassani, E. L. Shock, K. Harstad, J. Bellan, C.-S. Shin, K. K. Sung, S.-H. Kim, and K.-Y. Chwa. Algorithms for drawing binary trees in the plane. *Information Processing Letters*, 66(3):133–139, May 15, 1998. CODEN IFPLAT. ISSN 0020-0190 (print), 1872-6119 (electronic).

Sugiyama:1981:MVU

[STT81] K. Sugiyama, S. Tagawa, and M. Toda. Methods for visual understanding of hierarchical system structures. *IEEE Transactions on Systems, Man, and Cybernetics*, SMC-11(2):109–125, February 1981. CODEN ISYMAW. ISSN 0018-9472, 1083-4427.

Stumme:1995:GHD

[SW95] G. Stumme and R. Wille. A geometrical heuristic for drawing concept lattices. *Lecture Notes in Computer Science*, 894:452–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Sweet:1978:EEP

[Swe78] R. E. Sweet. Empirical estimates of program entropy. Technical Report STAN-CS-78-698, Department of Computer Science, Stanford University, Stanford, CA, USA, November 1978. Also issued as Report CSL-78-3, Xerox PARC, Palo Alto, CA, September 1978.

Swonk:1991:LTD

[Swo91] Glenn L. Swonk. LaTeX tree drawer. *TUGboat*, 12(2):286–289, June 1991. ISSN 0896-3207.

Tunkelang:1997:LNU

[TBC97] D. Tunkelang, R. J. Byrd, and J. W. Cooper. Lexical navigation: Using incremental graph drawing for query refinement. *Lecture Notes in Computer Science*, 1353:316–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Tamassia:1988:AGD

[TdB88] R. Tamassia, G. di Battista, and C. Batini. Automatic graph drawing and readability of diagrams. *IEEE Transactions on Systems, Man, and Cybernetics*, 18(1):61–79, January/February 1988. CODEN ISYMAW. ISSN 0018-9472, 1083-4427.

Thimbleby:1996:ECA

[Thi96] Harold Thimbleby. An equivalence class algorithm for drawing autostereograms. *Software—Practice and Experience*, 26(3):309–325, March 1996. CODEN SPEXBL. ISSN 0038-0644 (print), 1097-024X (electronic).

Thiemann:1997:DSD

[Thi97] P. J. Thiemann. Drawing syntax diagrams in Haskell. *Software—Practice and Experience*, 27(8):967–??, August 1997. CODEN SPEXBL. ISSN 0038-0644 (print), 1097-024X (electronic).

Tilford:1981:TDA

[Til81] J. S. Tilford. Tree drawing algorithms. Master's thesis, Department of Computer Science, University of Illinois, Urbana, IL, USA, April 1981. Issued as report UIUCDCSR-81-1055, and as document UILU-ENG-81-1711 from College of Engineering Document Center at the University of Illinois.

Tollis:1996:GDI

[Tol96] Ioannis G. Tollis. Graph drawing and information visualization. *ACM Computing Surveys*, 28(4es): 19, December 1996. CODEN CMSVAN. ISSN 0360-0300 (print), 1557-7341 (electronic). URL `http://www.acm.org/pubs/citations/journals/surveys/1996-28-4es/a19-tollis/`.

Trevisan:1996:NMU

[Tre96a] L. Trevisan. A note on minimum-area upward drawing of complete and Fibonacci trees. *Information Processing Letters*, 57(5):231–??, March 11, 1996. CODEN IFPLAT. ISSN 0020-0190 (print), 1872-6119 (electronic).

Trevisan:1996:NMA

[Tre96b] Luca Trevisan. A note on minimum-area upward drawing of complete and Fibonacci trees. *Information Processing Letters*, 57(5):231–236, ???? 1996. CODEN IFPLAT. ISSN 0020-0190 (print), 1872-6119 (electronic).

Tamassia:1995:GDD

[TT95] Roberto Tamassia and Ioannis G. Tollis, editors. *Graph drawing: DIMACS International Workshop, GD '94, Princeton, New Jersey, USA, October 10–12, 1994: proceedings*, volume 894 of *Lecture Notes in Computer Science*. Springer-Verlag Inc., New York, NY, USA, 1995. CODEN LNCSD9. ISBN 3-540-58950-3 (Berlin), 0-387-58950-3 (New York). ISSN 0302-9743 (print), 1611-3349 (electronic). LCCN T385 .D55 1994. DM94.00.

Tamassia:1991:LBP

[TTV91] Roberto Tamassia, Ioannis G. Tollis, and Jeffrey Scott Vitter. Lower bounds for planar orthogonal drawings of graphs. *Information Processing Letters*, 39(1):35–40, July 1991. CODEN IFPLAT. ISSN 0020-0190 (print), 1872-6119 (electronic).

Tollis:1995:DTN

[TX95] I. G. Tollis and C. Xia. Drawing telecommunication networks. *Lecture Notes in Computer Science*, 894:206–??, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Veenstra:1988:LDO

[VA88] Jack Veenstra and Narendra Ahuja. Line drawings of octree-represented objects. *ACM Transactions on Graphics*, 7(1):61–75, January 1988. CODEN ATGRDF. ISSN 0730-0301 (print), 1557-7368 (electronic). URL `http://www.acm.org/pubs/toc/Abstracts/0730-0301/42189.html`.

Valtr:1997:GDN

[Val97] P. Valtr. Graph drawings with no k pairwise crossing edges. *Lecture Notes in Computer Science*, 1353: 205–??, 1997. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

Vaucher:1980:PPT

[Vau80] Jean G. Vaucher. Pretty-printing of trees. *Software—Practice and Experience*, 10(7):553–561, July 1980. CODEN SPEXBL. ISSN 0038-0644 (print), 1097-024X (electronic).

VandePeer:1993:TSP

[VD93] Y. Van de Peer and R. De Wachter. Treecon: a software package for the construction and drawing of evolutionary trees. *Computer Applications in the Biosciences: CABIOS*, 9(2):177–??, April 1, 1993. CODEN COABER. ISSN 0266-7061.

VandePeer:1994:TWS

[VD94] Y. Van de Peer and R. De Wachter. TREECON for Windows: a software package for the construction and drawing of evolutionary trees for the Microsoft Windows environment. *Computer Applications in the Biosciences: CABIOS*, 10(5):569–??, September 1, 1994. CODEN COABER. ISSN 0266-7061.

vanderPloeg:2014:DNL

[vdP14] Atze van der Ploeg. Drawing non-layered tidy trees in linear time.

Software—Practice and Experience, 44(12):1467–1484, December 2014. CODEN SPEXBL. ISSN 0038-0644 (print), 1097-024X (electronic).

Overveld:1996:SSD

[vOV96] C. W. A. M. van Overveld and Marie Luce Viaud. Sticky splines: Definition and manipulation of spline structures with maintained topological relations. *ACM Transactions on Graphics*, 15(1):72–98, January 1996. CODEN ATGRDF. ISSN 0730-0301 (print), 1557-7368 (electronic). URL `http://www.acm.org/pubs/toc/Abstracts/0730-0301/225889.html; http://www.acm.org/pubs/toc/Abstracts/0730-0301/226154.html`.

Walker:1980:PNG

[Wal80] John Q. Walker II. Positioning nodes for general trees. *Software—Practice and Experience*, 10(7):553–561, July 1980. CODEN SPEXBL. ISSN 0038-0644 (print), 1097-024X (electronic).

Walker:1991:PNG

[Wal91] John Q. Walker II. Positioning nodes for general trees. *C Users Journal*, 9(2):47–62, February 1991. ISSN 0898-9788.

Warfield:1977:CTH

[War77] John Warfield. Crossing theory and hierarchy mapping. *IEEE Transactions on Systems, Man, and Cybernetics*, SMC-7(7):505–523, July 1977. CODEN ISYMAW. ISSN 0018-9472, 1083-4427.

Wetherell:1979:TDT

[WS79] C. S. Wetherell and A. Shannon. Tidy drawing of trees. *IEEE Transactions on Software Engineering*, SE-5(5):514–520, September 1979. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Zitnik:1994:DGS

[Žit94] Arjana Žitnik. Drawing graphs on surfaces. *SIAM Journal on Discrete Mathematics*, 7(4):593–597, November 1994. CODEN SJDMEC. ISSN 0895-4801 (print), 1095-7146 (electronic).

Zinssmeister:1996:DGA

[ZM96] G. Zinssmeister and C. L. McCreary. Drawing graphs with attribute graph grammars. *Lecture Notes in Computer Science*, 1073:443–??, 1996. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).