

## PUBLICATIONS IN INTERNATIONAL JOURNALS

[JOUR-63] Alessio Arleo ; Walter Didimo ; Giuseppe Liotta ; Fabrizio Montecchiani, “A Distributed Multilevel Force-Directed Algorithm”, IEEE Transactions on Parallel and Distributed Systems 30(4): 754 – 765.

[JOUR-62] Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani, “A Survey on Graph Drawing Beyond Planarity”, ACM Computing Surveys 52(1): 4:1-4:37, 2019.

[JOUR-61] Walter Didimo, Giuseppe Liotta, Maurizio Patrignani, “HV-planarity: Algorithms and complexity”. Journal of Computer and System Sciences, 99: 72-90, 2019.

[JOUR-60] Felice De Luca, Emilio Di Giacomo, Walter Didimo, Stephen G. Kobourov, Giuseppe Liotta, “An Experimental Study on the Ply Number of Straight-line Drawings”, Journal of Graph Algorithms Applications 23(1): 71-91, 2019.

[JOUR-59] Alessio Arleo, Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani, “Profiling distributed graph processing systems through visual analytics”, Future Generation Computer Systems 87, pp. 43-57, 2018.

[JOUR-58] Emilio Di Giacomo, Walter Didimo, William S. Evans, Giuseppe Liotta, Henk Meijer, Fabrizio Montecchiani, Stephen K. Wismath, “Ortho-polygon Visibility Representations of Embedded Graphs”, Algorithmica 80(8), pp. 2345-2383, 2018.

[JOUR-57] Walter Didimo, Evgenios M. Kornaropoulos, Fabrizio Montecchiani, Ioannis G. Tollis “A Visualization Framework and User Studies for Overloaded Orthogonal Drawings”. Computer Graphics Forum 37(1), pp. 288-300, 2018.

[JOUR-56] Walter Didimo, Luca Giamminonni, Giuseppe Liotta, Fabrizio Montecchiani, Daniele Pagliuca, “A visual analytics system to support tax evasion discovery”, Decision Support Systems 110, pp. 71-83, 2018.

[JOUR-55] Emilio Di Giacomo, Walter Didimo, William S. Evans, Giuseppe Liotta, Henk Meijer, Fabrizio Montecchiani, Stephen K. Wismath, “New results on edge partitions of 1-plane graphs”, Theoretical Computer Science 713, pp. 78-84, 2018.

[JOUR-54] Michael A. Bekos, Walter Didimo, Giuseppe Liotta, Saeed Mehrabi, Fabrizio Montecchiani, “On RAC drawings of 1-planar graphs”, Theoretical Computer Science 689, pp. 48-57, 2017.

[JOUR-53] Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani, “Area-Thickness Trade-Offs for Straight-Line Drawings of Planar Graphs”, Computer Journal 60(1), pp. 135-142, 2017.

[JOUR-52] Carla Binucci, Markus Chimani, Walter Didimo, Martin Gronemann, Karsten Klein, Jan Kratochvíl, Fabrizio Montecchiani, Ioannis G. Tollis, “Algorithms and Characterizations for 2-Layer Fan-planarity: From Caterpillar to Stegosaurus”, Journal of Graph Algorithms Applications 21(1), pp. 81-102, 2017.

[JOUR-51] Patrizio Angelini, Michael A. Bekos, Felice De Luca, Walter Didimo, Michael Kaufmann, Stephen G. Kobourov, Fabrizio Montecchiani, Chrysanthi N. Raftopoulou, Vincenzo Roselli, Antonios Symvonis: “Vertex-Coloring with Defects”, *Journal of Graph Algorithms Applications* 21(3), pp. 313-340, 2017.

[JOUR-50] Alessio Arleo, Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani, “Large graph visualizations using a distributed computing platform”, *Information Sciences*, vol. 381, pp.124-141, 2017.

[JOUR-49] Franz J. Brandenburg, Walter Didimo, William S. Evans, Philipp Kindermann, Giuseppe Liotta, Fabrizio Montecchiani, “Recognizing and drawing IC-planar graphs”, *Theoretical Computer Science*, vol. 636, pp. 1-16, 2016.

[JOUR-48] Carla Binucci, Walter Didimo, “Computing Quasi-Upward Planar Drawings of Mixed Graphs”, *Computer Journal*: vol. 59 (1), pp. 133-150, 2016.

[JOUR-47] Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Henk Meijer, Stephen Wismath, “Planar and Quasi-planar Simultaneous Geometric Embedding”, *Computer Journal*: vol. 58 (11), pp. 3126-3140, 2015.

[JOUR-46] Patrizio Angelinia, Carla Binucci, Giordano Da Lozzo, Walter Didimo, Luca Grilli, Fabrizio Montecchianib, Maurizio Patrignani, Ioannis G. Tollis, “Algorithms and bounds for drawing non-planar graphs with crossing-free subgraphs”, *Computational Geometry: Theory and Applications*, vol. 50, pp. 34-48, 2015.

[JOUR-45] Carla Binucci, Emilio Di Giacomo, Walter Didimo, Fabrizio Montecchiani, Maurizio Patrignani, Antonios Symvonis, Ioannis G. Tollis, “Fan-planarity: Properties and complexity”, *Theoretical Computer Science*, vol. 589, pp. 76-86, 2015.

[JOUR-44] Emilio Di Giacomo, Walter Didimo, Luca Grilli, Giuseppe Liotta, Salvatore A. Romeo, “Heuristics for the Maximum 2-Layer RAC Subgraph Problem”, *Computer Journal*, vol. 58 (5), pp. 1085-1098, 2015.

[JOUR-43] Patrizio Angelini, Walter Didimo, Stephen Kobourov, Tamara Mchedlidze, Vincenzo Roselli, Antonios Symvonis, Stephen Wismath, “Monotone Drawings of Graphs with Fixed Embedding”, *Algorithmica*, vol. 71 (2), pp. 233-257, 2015.

[JOUR-42] Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani, Ioannis G. Tollis, “Techniques for Edge Stratification of Complex Graph Drawings”, *Journal of Visual Languages and Computing*, vol. 25, pp. 533-543, 2014.

[JOUR-41] Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani, “Network Visualization for Financial Crime Detection”, *Journal of Visual Languages and Computing*, vol. 25, pp. 433-451, 2104.

[JOUR-40] Carla Binucci, Walter Didimo, Maurizio Patrignani, “Upward and quasi-upward planarity testing of embedded mixed graphs”, *Theoretical Computer Science*, vol. 526, pp.55-89, 2014.

[JOUR-39] Walter Didimo and Fabrizio Montecchiani, “Fast Layout Computation of Hierarchical Clustered Graphs: Algorithmic Advances and Experimental Analysis”, *Information Sciences*, vol. 260, pp. 185-199, 2014.

[JOUR-38] Emilio Di Giacomo, Walter Didimo, Peter Eades, Giuseppe Liotta, “2-Layer Right Angle Crossing Drawings”, *Algorithmica*, 68(4), pp. 954-997, 2014.

[JOUR-37] Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani, “Area Requirement of Graph Drawings with Few Crossings per Edge”, *Computational Geometry: Theory and Applications*, 46 (8), pp. 909-916, 2013.

[JOUR-36] Walter Didimo, “Density of 1-planar Graph Drawings”, *Information Processing Letters*, 113 (7), pp. 236-240, 2013.

[JOUR-35] Walter Didimo, Michael Kaufmann, Giuseppe Liotta, Yoshio Okamoto, Andreas Spillner, “Vertex Angle and Crossing Angle Resolution of Leveled Tree Drawings”, *Information Processing Letters*, 112(16), pp. 630-635, 2012.

[JOUR-34] Carla Binucci, Ulrik Brandes, Giuseppe Di Battista, Walter Didimo, Marco Gaertler, Pietro Palladino, Maurizio Patrignani, Antonios Symvonis, Katharina A. Zweig, “Drawing Trees in a Streaming Model”, *Information Processing Letters*, 112(11), pp. 418-422, 2012.

[JOUR-33] Emilio Di Giacomo, Walter Didimo, Peter Eades, Seok-hee Hong, Giuseppe Liotta, “Bounds on the Crossing Resolution of Complete Geometric Graphs”, *Discrete Applied Mathematics*, 160(1-2), pp. 132-139, 2012.

[JOUR-32] Walter Didimo, Peter Eades, Giuseppe Liotta, “Drawing Graphs with Right Angle Crossings”, *Theoretical Computer Science*, 412 (39), pp. 5156-5166, 2011.

[JOUR-31] Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Henk Meijer, “Drawing a Tree as a Minimum Spanning Tree Approximation”, *Journal of Computer and System Sciences*, 78(2), pp. 491-503, 2012.

[JOUR-30] Walter Didimo, Giuseppe Liotta, Salvatore A. Romeo, “A Graph Drawing Application to Web-Site Traffic Analysis”, *Journal of Graph Algorithms and Applications*, 15(2), pp. 229-251, 2011.

[JOUR-29] Carla Binucci, Emilio Di Giacomo, Walter Didimo, Aimal T. Rextin, “Switch-Regular Upward Planar Embeddings of Directed Trees”, *Journal of Graph Algorithms and Applications*, (special issue on WALCOM 2010), 15(5), pp. 587-629, 2011.

[JOUR-28] Vladimir Batagelj, Franz Brandenburg, Walter Didimo, Giuseppe Liotta, Pietro Palladino, and Maurizio Patrignani, “Visual Analysis of Large Graphs Using (X,Y)-clustering and Hybrid Visualizations”, *IEEE Transactions on Visualization and Computer Graphics* (special issue of PacificVis 2010), 17(11), pp. 1587-1598, 2011.

[JOUR-27] Patrizio Angelini, Luca Cittadini, Giuseppe Di Battista, Walter Didimo, Fabrizio Frati, Michael Kaufmann, and Antonios Symvonis, “On the Perspectives Opened by Right Angle Crossing

Drawings”, *Journal of Graph Algorithms and Applications* (special issue on GD’09), 15(1), pp. 53-78, 2011.

**[JOUR-26]** Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, and Henk Meijer, “Area, Curve Complexity, and Crossing Resolution of Non-Planar Graph Drawings”, *Theory of Computing Systems*, 49(3), pp. 565-575, 2011.

**[JOUR-25]** Walter Didimo, Peter Eades, and Giuseppe Liotta. “A Characterization of Complete Bipartite RAC Graphs”, *Information Processing Letters*, 110(16), pp. 687-691, 2010.

**[JOUR-24]** Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Henk Meijer, and Stephen Wismath, “Constrained Point-set Embeddability of Planar Graphs”, *International Journal of Computational Geometry and Applications*, 20(5), pp. 577-600, 2010.

**[JOUR-23]** Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Pietro Palladino, “Visual Analysis of One-to-Many Matched Drawings”, *Journal of Graph Algorithms and Applications* (special issue of GD’08), 14(1), pp. 97-119, 2010.

**[JOUR-22]** Carla Binucci, Emilio Di Giacomo, Walter Didimo, Aleandro Estrella-Balderrama, Fabrizio Frati, Stephen G. Kobourov, Giuseppe Liotta, “Upward Straight-line Embeddings of Directed Graphs into Point Sets”, *Computational Geometry: Theory and Applications*, 43(2), pp. 219-232, 2010.

**[JOUR-21]** Walter Didimo, Francesco Giordano, Giuseppe Liotta, “Upward Spirality and Upward Planarity Testing”, *SIAM J. On Discrete Mathematics*, 23(4), pp. 1842-1899, 2009.

**[JOUR-20]** Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Henk Meijer, Stephen K. Wismath, “Point-Set Embeddings of Trees with Given Partial Drawings”, *Computational Geometry: Theory and Applications*, 42(6-7), pp. 664-676, 2009.

**[JOUR-19]** Emilio Di Giacomo, Walter Didimo, Marc van Kreveld, Giuseppe Liotta, Bettina Speckmann, “Matched Drawings of Graphs”, *Journal of Graph Algorithms and Applications* (special issue of GD’07), 13(3), pp. 423-445, 2009.

**[JOUR-18]** Carla Binucci, Walter Didimo, Francesco Giordano, “Maximum Upward Planar Subgraphs of Embedded Planar Digraphs”, *Computational Geometry: Theory and Applications*, 41(3), pp. 230-246, 2008.

**[JOUR-17]** Walter Didimo, Francesco Giordano, and Giuseppe Liotta, “Overlapping Cluster Planarity”, *Journal of Graph Algorithms and Applications* (special issue on APVIS’07), 12(3), pp. 267-291, 2008.

**[JOUR-16]** Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Henk Meijer, Francesco Trotta, Stephen Wismath, “K-colored Point-set Embeddability of Outerplanar Graphs”, *Journal of Graph Algorithms and Applications* (special issue on GD’06), 12(1), pp. 29-49, 2008.

**[JOUR-15]** Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, “Radial Drawings of Graphs: Geometric Constraints and Trade-offs”, *Journal of Discrete Algorithms*, 6(1), pp. 109-124, 2008.

- [JOUR-14] Emilio Di Giacomo, Walter Didimo, Luca Grilli, Giuseppe Liotta, "Graph Visualization Techniques for Web Clustering Engines", *IEEE Transactions on Visualization and Computer Graphics*, 13(2), pp. 294-304, 2007.
- [JOUR-13] Walter Didimo, "Upward Planar Drawings and Switch-regularity Heuristics", *Journal of Graph Algorithms and Applications*, 10(2), pp. 259-285, 2006.
- [JOUR-12] E- Di Giacomo, W. Didimo, G. Liotta, M. Suderman, "k-spine, 1-bend Planarity", *Theoretical Computer Science*, 359(1-3), pp. 148-175, 2006.
- [JOUR-11] E. Di Giacomo, W. Didimo, G. Liotta, H. Meijer, "Computing Radial Drawings on the Minimum Number of Circles", *Journal of Graph Algorithms and Applications*, 9(3), pp. 365-389, 2006.
- [JOUR-10] E. Di Giacomo, W. Didimo, G. Liotta, S. K. Wismath, "Book Embeddability of Series-Parallel Digraphs", *Algorithmica*, 45(4), pp. 531-547, 2006.
- [JOUR-9] C. Binucci, W. Didimo, G. Liotta, M. Nonato, "Orthogonal Drawings of Graphs with Vertex and Edge Labels", *Computational Geometry: Theory and Applications*, 32(2), pp. 71-114, 2005.
- [JOUR-8] E. Di Giacomo, W. Didimo, G. Liotta, S. K. Wismath, "Curve-Constrained Drawings of Planar Graphs", *Computational Geometry: Theory and Applications*, 30(1), pp. 1-23, 2005.
- [JOUR-7] W. Didimo, M. Pizzonia, "Upward Embeddings and Orientations of Undirected Planar Graphs", *Journal of Graph Algorithms and Applications*, 7(2), pp. 221-241, 2003.
- [JOUR-6] Carla Binucci, Walter Didimo, "A Software System for Computing Labeled Orthogonal Drawings of Graphs", *Electr. Notes Theor. Comput. Sci.*, 72(2), 2002.
- [JOUR-5] Andrea Carmignani, Giuseppe Di Battista, Walter Didimo, Francesco Matera, Maurizio Pizzonia, "Visualization of the High Level Structure of the Internet with Hermes", *Journal of Graph Algorithms and Applications*, 6(3), pp. 281-311, 2002.
- [JOUR-4] Giuseppe Di Battista, Walter Didimo, Maurizio Patrignani, Maurizio Pizzonia, "Drawing Database Schemas", *Software Practice and Experience*, 32(11), pp.1065-1098, 2002.
- [JOUR-3] Paola Bertolazzi, Giuseppe Di Battista, Walter Didimo, "Quasi-Upward Planarity", *Algorithmica*, 32(3), pp. 474-506, 2002.
- [JOUR-2] Paola Bertolazzi, Giuseppe Di Battista, Walter Didimo, "Computing Orthogonal Drawings with the Minimum Number of Bends", *IEEE Transactions on Computers*, 49(8), pp. 826-840, 2000.
- [JOUR-1] Stina S. Bridgeman, Giuseppe Di Battista, Walter Didimo, Giuseppe Liotta, Roberto Tamassia, Luca Vismara, "Turn-Regularity and Optimal Area Drawings of Orthogonal Representations", *Computational Geometry: Theory and Applications*, 16(1), pp. 53-93, 2000.

## EDITED PROCEEDINGS AND JOURNAL SPECIAL ISSUES

[EDIT-3] Walter Didimo and Maurizio Patrignani (Eds), Graph Drawing - 20th International Symposium, GD 2012, Redmond, WA, USA, September 19-21, 2012, Revised Selected Papers. LNCS 7704, Springer 2013, isbn 978-3-642-36762-5, 2014.

[EDIT-2] Walter Didimo and Giuseppe Liotta (Eds), "Special Issue on the 28th European Workshop on Computational Geometry EuroCG 2012, Guest Editors' Foreword", Computational Geometry: Theory and Applications, vol. 47 (3), part B, pp. 459, 2014.

[EDIT-1] Walter Didimo and Maurizio Patrignani (Eds), "Special Issue on the 20th International Symposium on Graph Drawing, GD 2012, Guest Editors' Foreword", Journal of Graph Algorithms and Applications, vol. 17, n.4, pp. 363-365, 2013.

## PUBLICATIONS IN INTERNATIONAL CONFERENCES

[CONF-89] Michael A. Bekos, Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani: Universal Slope Sets for Upward Planar Drawings. Graph Drawing 2018: 77-91.

[CONF-88] Walter Didimo, Giuseppe Liotta, Maurizio Patrignani: Bend-Minimum Orthogonal Drawings in Quadratic Time. Graph Drawing 2018: 481-494.

[CONF-87] Patrizio Angelini, Michael A. Bekos, Walter Didimo, Luca Grilli, Philipp Kindermann, Tamara Mchedlidze, Roman Prutkin, Antonios Symvonis, Alessandra Tappini: Greedy Rectilinear Drawings. Graph Drawing 2018: 495-508.

[CONF-86] Michael A. Bekos, Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani, Chrysanthi N. Raftopoulou: Edge Partitions of Optimal 2-plane and 3-plane Graphs. WG 2018: 27-39.

[CONF-85] Michael A. Bekos, Felice De Luca, Walter Didimo, Tamara Mchedlidze, Martin Nöllenburg, Antonios Symvonis, Ioannis G. Tollis, "Planar Drawings of Fixed-Mobile Bigraphs", Graph Drawing and Network Visualization (GD 2017), LNCS vol. 10692, Springer, pp. 426-439.

[CONF-84] Alessio Arleo, Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani, "GiViP: A Visual Profiler for Distributed Graph Processing Systems", Graph Drawing and Network Visualization (GD 2017), LNCS vol. 10692, Springer, pp. 256-271.

[CONF-83] Felice De Luca, Emilio Di Giacomo, Walter Didimo, Stephen G. Kobourov, Giuseppe Liotta, "An Experimental Study on the Ply Number of Straight-Line Drawings", WALCOM 2017, LNCS vol. 10167, Springer, pp. 135-148.

[CONF-82] Patrizio Angelini, Michael A. Bekos, Franz J. Brandenburg, Giordano Da Lozzo, Giuseppe Di Battista, Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani, Ignaz Rutter, "On the

Relationship Between k-Planar and k-Quasi-Planar Graphs”, WG 2017, LNCS vol. 10520, Springer, pp. 59-74.

**[CONF-81]** Alessio Arleo, Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani, “A Distributed Multilevel Force-Directed Algorithm”, Graph Drawing and Network Visualization (GD 2016), LNCS vol. 9801, Springer, pp. 3-17.

**[CONF-80]** Carla Binucci, Markus Chimani, Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani, “Placing Arrows in Directed Graph Drawings”, Graph Drawing and Network Visualization (GD 2016), LNCS vol. 9801, Springer, pp. 44-51.

**[CONF-79]** Emilio Di Giacomo, Walter Didimo, William S. Evans, Giuseppe Liotta, Henk Meijer, Fabrizio Montecchiani, Stephen K. Wismath, “Ortho-Polygon Visibility Representations of Embedded Graphs”, Graph Drawing and Network Visualization (GD 2016), LNCS vol. 9801, Springer, pp. 280-294.

**[CONF-78]** Walter Didimo, Giuseppe Liotta, Saeed Mehrabi, Fabrizio Montecchiani, “1-Bend RAC Drawings of 1-Planar Graphs”, Graph Drawing and Network Visualization (GD 2016), LNCS vol. 9801, Springer, pp. 335-343.

**[CONF-77]** Carla Binucci, Walter Didimo, Enrico Spataro, “Fully dynamic semantic word clouds”, IEEE IISA 2016.

**[CONF-76]** Alessio Arleo, Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani, “A Million Edge Drawing for a Fistful of Dollars”, Graph Drawing 2015, LNCS vol. 9411, Springer, pp. 44-51.

**[CONF-75]** Walter Didimo, Francesco Giacchè, Fabrizio Montecchiani, “Kojaph: Visual Definition and Exploration of Patterns in Graph Databases”, Graph Drawing 2015, LNCS vol. 9411, Springer, pp. 272-278.

**[CONF-74]** Carla Binucci, Markus Chimani, Walter Didimo, Martin Gronemann, Karsten Klein, Jan Kratochvíl, Fabrizio Montecchiani, Ioannis G. Tollis, “2-Layer Fan-Planarity: From Caterpillar to Stegosaurus”, Graph Drawing 2015, LNCS vol. 9411, Springer, pp. 281-294.

**[CONF-73]** Franz J. Brandenburg, Walter Didimo, William S. Evans, Philipp Kindermann, Giuseppe Liotta, Fabrizio Montecchiani, “Recognizing and Drawing IC-Planar Graphs”, Graph Drawing 2015, LNCS vol. 9411, Springer, pp. 295-308.

**[CONF-72]** Emilio Di Giacomo, Walter Didimo, Seok-hee Hong, Michael Kaufmann, Stephen Kobourov, Giuseppe Liotta, Kazuo Misue, Antonios Symvonis, Hsu-Chun Yen, “Low Ply Graph Drawing”, IEEE IISA 2015.

**[CONF-71]** Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani, “Network Visualization Retargeting”, IEEE IISA 2015.

**[CONF-70]** Walter Didimo, Giuseppe Liotta, Maurizio Patrignani, “On the Complexity of HV-rectilinear Planarity Testing”, Graph Drawing 2014, LNCS vol. 8871, Springer, pp. 343-354.

[CONF-69] Carla Binucci, Emilio Di Giacomo, Walter Didimo, Fabrizio Montecchiani, Maurizio Patrignani, Ioannis G. Tollis “Fan-Planar Graphs: Combinatorial Properties and Complexity Results”, Graph Drawing 2014, LNCS vol. 8871, Springer, pp. 186-197.

[CONF-68] Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Henk Meijer, Stephen K. Wismath, “Planar and Quasi Planar Simultaneous Geometric Embedding”, Graph Drawing 2014, LNCS vol. 8871, Springer, pp. 52-63.

[CONF-67] Walter Didimo, Fabrizio Montecchiani, Evangelos Pallas, Ioannis G. Tollis, “How to visualize directed graphs: A user study”, IEEE IISA 2014, pp. 152-157.

[CONF-66] Emilio Di Giacomo, Walter Didimo, Michael Kaufmann, Giuseppe Liotta, Fabrizio Montecchiani, “Upward-rightward planar drawings”, IEEE IISA 2014, pp. 145-150.

[CONF-65] Stefano Federici, Maria Laura Mele, Salvatore Agostino Romeo, Walter Didimo, Giuseppe Liotta, Simone Borsci, Fabio Meloni, “A Model of Web-Based Follow-Up to Reduce Assistive Technology Abandonment”, HCI (3) 2014: 674-682.

[CONF-64] Carla Binucci, Walter Didimo, “Quasi-upward planar drawings of mixed graphs with few bends: Heuristics and exact methods”, WALCOM 2014, LNCS vol. 8344, Springer, pp. 291–302., 2014.

[CONF-63] Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani, Ioannis G. Tollis, “Exploring Complex Drawings via Edge Stratification”, Graph Drawing 2013, LNCS vol. 8242, Springer, pp. 304-315, 2013.

[CONF-62] Patrizio Angelini, Carla Binucci, Giordano Da Lozzo, Walter Didimo, Luca Grilli, Fabrizio Montecchiani, Maurizio Patrignani, Ioannis G. Tollis, “Drawing Non-Planar Graphs with Crossing-Free Subgraphs”, Graph Drawing 2013, LNCS vol. 8242, Springer, pp. 292-303, 2013.

[CONF-61] Carla Binucci, Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani, Mariano Sartore, “TRART: A System to Support Territorial Policies”, Intelligent Environments 2013 Workshop, Ambient Intelligence and Smart Environments Series of IOS-Press, vol. 17, pp. 629-634, 2013.

[CONF-60] Hsiu-Ming Chang, Ann-Shyn Chiang, Walter Didimo, Ching-Yao Lin, Giuseppe Liotta, Fabrizio Montecchiani, “On the Robustness of the Drosophila Neural Network”, 2nd International Workshop on Network Science, IEEE NSW, pp. 168-171, 2013, ISBN: 978-1-4799-0436-5, doi: 10.1109/NSW.2013.6609216.

[CONF-59] Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani. “Area Requirement of Graph Drawings with Few Crossings per Edge”, 29th European Workshop on Computational Geometry, EuroCG, 2013.

[CONF-58] Patrizio Angelini, Giuseppe Di Battista, Walter Didimo, Fabrizio Frati, Seok-Hee Hong, Michael Kaufmann, Giuseppe Liotta, Anna Lubiw, “Large angle crossing drawings of planar graphs in subquadratic area”. In A. Marquez, P. Ramos, and J. Urrutia, editors, Special Festschrift volume, LNCS, vol. 7579, Springer, pp. 200-209, 2012.

- [CONF-57] Walter Didimo, Fabrizio Montecchiani, “Fast Layout Computation of Hierarchically Clustered Networks: Algorithmic Advances and Experimental”, IV 2012, IEEE, pp. 18-23, 2012.
- [CONF-56] Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani, “h-quasi planar Drawings of Bounded Treewidth Graphs in Linear Area”, WG 2012, LNCS of Springer, pp. 91-102, 2012.
- [CONF-55] Patrizio Angelini, Giuseppe Di Battista, Walter Didimo, Fabrizio Frati, Seok-Hee Hong, Michael Kaufmann, Giuseppe Liotta, Anna Lubiw, “RAC and LAC Drawings of Planar Graphs in Subquadratic Area”, in 14th Spanish Meeting on Computational Geometry (EGC '11), Centre de Recerca Matemàtica, vol. 8 of Documents, pp. 125-128, 2011.
- [CONF-54] Emilio Di Giacomo, Walter Didimo, Luca Grilli, Giuseppe Liotta, Salvatore A. Romeo, “Heuristics for the Maximum 2-layer RAC Subgraph Problem”, WALCOM 2012, LNCS 7157, Springer, pp.2011-2016, 2012.
- [CONF-53] Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani, “Vis4AU: Visual Analysis of Banking Activity Networks”, Proc. IVAPP, 2012.
- [CONF-52] Patrizio Angelini, Walter Didimo, Stephen Kobourov, Tamara Mchedlidze, Vincenzo Roselli, Antonios Symvonis, and Stephen Wismath, “Monotone Drawings of Graphs with Fixed Embedding”, GD 2011, LNCS 7034, Springer, pp. 379-390, 2012.
- [CONF-51] Carla Binucci and Walter Didimo, “Upward Planarity Testing of Embedded Mixed Graphs”, GD 2011, LNCS 7034, Springer, pp. 427-432, 2012.
- [CONF-50] Emilio Di Giacomo, Walter Didimo, Peter Eades, Giuseppe Liotta, “2-Layer Right Angle Crossing Drawings”, IWOCA 2011, LNCS 7157, Springer, pp. 211-216, 2012.
- [CONF-49] Walter Didimo, “Switch-regular Upward Planar Drawings with Low-degree Faces”, 27th European Workshop on Computational Geometry, EuroCG, 2011.
- [CONF-48] Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani, Pietro Palladino, “An Advanced Network Visualization Systems for Financial Crime Detection”, PacificVis 2011, IEEE, pp. 203-210, 2011.
- [CONF-47] Walter Didimo, Giuseppe Liotta, Salvatore A. Romeo, “Topology-driven Force-directed Algorithms”, GD 2010, LNCS 6502, Springer, pp. 165-176, 2011.
- [CONF-46] Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Henk Meijer, “Drawing a Tree as a Minimum Spanning Tree Approximation”, ISAAC 2010, LNCS 6507, Springer, pp. 61-72, 2010.
- [CONF-45] Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Pietro Palladino, “Visual Analysis of Financial Crimes”, AVI 2010, ACM Press, pp. 393-394, 2010.
- [CONF-44] Vladimir Batagelj, Walter Didimo, Giuseppe Liotta, Pietro Palladino, Maurizio Patrignani, “Visual Analysis of Large Graphs Using (X,Y)-clustering and Hybrid Visualizations”, PacificVis 2010, IEEE, pp. 209-216, 2010.

- [CONF-43] Walter Didimo, Giuseppe Liotta, Salvatore A. Romeo, "Graph Visualization Techniques for Conceptual Web Site Traffic Analysis", PacificVis 2010, IEEE, pp. 193-200, 2010.
- [CONF-42] Carla Binucci, Emilio Di Giacomo, Walter Didimo, Aimal T. Rextin, "Switch-Regular Upward Planar Embeddings of Trees", WALCOM 2010, LNCS 5942, Springer, pp. 58-69, 2010.
- [CONF-41] Patrizio Angelini, Luca Cittadini, Giuseppe Di Battista, Walter Didimo, Fabrizio Frati, Michael Kaufmann, Antonios Symvonis, "On the Perspectives Opened by Right Angle Crossing Drawings", GD 2009, LNCS 5849, Springer, pp. 21-32, 2010.
- [CONF-40] Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Henk Meijer, "Area, Curve Complexity, and Crossing Resolution of Non-Planar Graph Drawings", GD 2009, LNCS 5849, Springer, pp. 15-20, 2010.
- [CONF-39] Carla Binucci, Ulrik Brandes, Giuseppe Di Battista, Walter Didimo, Marco Gaertler, Pietro Palladino, Maurizio Patrignani, Antonios Symvonis, Katharina A. Zweig, "Drawing Trees in a Streaming Model", GD 2009, LNCS 5849, Springer, pp.292-303, 2010.
- [CONF-38] Walter Didimo, Peter Eades, Giuseppe Liotta, "Drawing Graphs with Right Angle Crossings", WADS 2009, LNCS 5664, Springer, pp. 206-217, 2009.
- [CONF-37] Carla Binucci, Emilio Di Giacomo, Walter Didimo, Alejandro Estrella-Balderrama, Fabrizio Frati, Stephen Kobourov, Giuseppe Liotta, "Directed Graphs with an Upward Straight-line Embedding into Every Point Set", Proc. CCCG, 2009.
- [CONF-36] Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Pietro Palladino. "Visual Analysis of One-To-Many Matched Graphs", GD 2008, LNCS 5147, Springer, pp. 133-144, 2009.
- [CONF-35] Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Henk Meijer, Stephen K. Wismath, "Constrained Point-set Embeddability of Planar Graphs", GD 2008, LNCS 5147, Springer, pp. 360-371, 2009.
- [CONF-34] Emilio Di Giacomo, Walter Didimo, Luca Grilli, Giuseppe Liotta, Pietro Palladino. "WhatsOnWeb+: An Enhanced Visual Search Clustering Engine", PacificVis 2008, IEEE, pp.167-174, 2008.
- [CONF-33] Carla Binucci, Walter Didimo, Francesco Giordano, "Maximum Upward Planar Subgraphs of Embedded Planar Digraphs", GD 2007, LNCS 4875, Springer, pp.195-206, 2008.
- [CONF-32] Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Henk Meijer, Stephen K. Wismath, "Point-Set Embedding of Trees with Edge Constraints", GD 2007, LNCS 4875, Springer, pp.113-124, 2008.
- [CONF-31] Emilio Di Giacomo, Walter Didimo, Marc van Kreveld, Giuseppe Liotta, Bettina Speckmann, "Matched Drawings of Planar Graphs", GD 2007, LNCS 4875, Springer, pp. 183-194, 2008.

- [CONF-30] Melanie Badent, Carla Binucci, Emilio Di Giacomo, Walter Didimo, Stefan Felsner, Francesco Giordano, Jan Kratochvil, Pietro Palladino, Maurizio Patrignani, Francesco Trotta. "Homothetic Triangle Contact Representations of Planar Graphs". Proc. CCCG, pp. 233-236, 2007.
- [CONF-29] Walter Didimo, Francesco Giordano, Giuseppe Liotta, "Overlapping Cluster Planarity", APVIS 2007, IEEE, pp. 73-80, 2007.
- [CONF-28] Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Henk Meijer, Francesco Trotta, Stephen K. Wismath, "K-Colored Point-set Embeddability of Outerplanar Graphs", GD 2006, LNCS 4372, Springer, pp. 318-329, 2007.
- [CONF-27] Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, "Radial Drawings of Graphs: Geometric Constraints and Trade-offs", GD 2006, LNCS 4372, Springer, pp. 355-366, 2007.
- [CONF-26] Emilio Di Giacomo, Walter Didimo, Luca Grilli, Giuseppe Liotta: "WhatsOnWeb: Using Graph Drawing to Search the Web", GD 2005, LNCS 3843, Springer, pp. 480-491, 2006.
- [CONF-25] Walter Didimo, Francesco Giordano, Giuseppe Liotta: "Upward Spirality and Upward Planarity Testing", GD 2005, LNCS 3843, Springer, pp. 117-128, 2006.
- [CONF-24] Carla Binucci, Walter Didimo: "Experiments on Area Compaction Algorithms for Orthogonal Drawings", Proc. CCCG, 2005.
- [CONF-23] Walter Didimo, "Computing Upward Planar Drawings Using Switch-Regularity Heuristics", SOFSEM 2005, LNCS 3381, Springer, pp.117-126, 2005.
- [CONF-22] Emilio Di Giacomo, Walter Didimo, Luca Grilli, Giuseppe Liotta, "A Topology-Driven Approach to the Design of Web Meta-search Clustering Engines", SOFSEM 2005, LNCS 3381, Springer, pp.106-116, 2005.
- [CONF-21] Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Matthew J. Suderman, "Hamiltonian-with-handles Graphs and the k-spine Drawability Problem", GD 2004, LNCS 3383, Springer, pp. 262-272, 2004.
- [CONF-20] Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Henk Meijer, "Computing Radial Drawings on the Minimum Number of Circles", GD 2004, LNCS 3383, Springer, pp. 251-261, 2004.
- [CONF-19] Emilio Di Giacomo, W. Didimo, "Straight-line Drawings of 2-Outerplanar Graphs on Two Curves", GD 2003, LNCS 2912, Springer, pp. 419-424, 2004.
- [CONF-18] Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, S. K. Wismath, "Drawing Planar Graphs on a Curve", WG 2003, LNCS 2880, Springer, pp.192-204, 2003.
- [CONF-17] Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, and Stephen K. Wismath, "Book Embeddings and Point-Set Embeddings of Series-Parallel Digraphs", GD 2002, LNCS 2528, Springer, pp. 162-173, 2002.

- [CONF-16]** Carla Binucci, Walter Didimo, Giuseppe Liotta, Maddalena Nonato, “Computing Labeled Orthogonal Drawings”, GD 2002, LNCS 2528, Springer, pp.66-73, 2002.
- [CONF-15]** Carla Binucci, Walter Didimo, Giuseppe Liotta, Maddalena Nonato, “Labeling Heuristics for Orthogonal Drawings”, GD 2001, LNCS 2265, Springer, pp.139-153, 2002.
- [CONF-14]** Giuseppe Di Battista, W. Didimo, Alessandro Marcandalli, “Planarization of Clustered Graphs”, GD 2001, LNCS 2265, Springer, pp. 60-74, 2002.
- [CONF-13]** Gabriele Barbagallo, Andrea Carmignani, Giuseppe Di Battista, Walter Didimo, Maurizio Pizzonia, “Exploration and Visualization of Computer Networks: Polyphemus and Hermes”, GD 2001, LNCS 2265, Springer, pp. 444-445, 2002.
- [CONF-12]** Giuseppe Di Battista, Walter Didimo, Maurizio Patrignani, Maurizio Pizzonia, “Drawing Database Schemas with DBdraw”, GD 2001, LNCS 2265, Springer, pp. 451-452, 2002.
- [CONF-11]** Walter Didimo, Maurizio Patrignani, Maurizio Pizzonia, “Industrial Plant Drawer”, GD 2001, LNCS 2265, Springer, pp. 475-476, 2002.
- [CONF-10]** Walter Didimo, Maurizio Pizzonia, “Upward Embeddings and Orientations of Undirected Planar Graphs”, WADS 2001, LNCS 2125, Springer, pp. 339-351, 2001.
- [CONF-9]** Andrea Carmignani, Giuseppe Di Battista, Walter Didimo, Francesco Matera, Maurizio Pizzonia, “Visualization of the Autonomous Systems Interconnections with Hermes”, GD 2000, LNCS 1984, Springer, pp. 150-163, 2001.
- [CONF-8]** Giuseppe Di Battista, Walter Didimo, Maurizio Patrignani, Maurizio Pizzonia, “Drawing Relational Schemas”, VisSym 2000, TVCG IEEE, pp.53-62, 2000.
- [CONF-7]** Stina Bridgeman, Giuseppe Di Battista, Walter Didimo, Giuseppe Liotta, Roberto Tamassia, Luca Vismara, “Turn-Regularity and Planar Orthogonal Drawings”, GD 1999, LNCS 1731, Springer, pp. 8-26, 2000.
- [CONF-6]** Giuseppe Di Battista, Walter Didimo, Maurizio Patrignani, Maurizio Pizzonia, “Orthogonal and Quasi-Upward Drawings with Vertices of Prescribed Size”, GD 1999, LNCS 1731, Springer, pp. 297-310, 2000.
- [CONF-5]** Walter Didimo, Giuseppe Liotta, “Computing Orthogonal Drawings in a Variable Embedding Setting”, ISAAC 1998, LNCS 1533, Springer, pp. 79-88, 1998.
- [CONF-4]** Stina Bridgeman, Giuseppe Di Battista, Walter Didimo, Giuseppe Liotta, Roberto Tamassia, Luca Vismara, “Optimal Compaction of Orthogonal Representations”, Proc. CGC Workshop on Geometric Computing, 1998.
- [CONF-3]** Paola Bertolazzi, Giuseppe Di Battista, Walter Didimo, “Quasi-Upward Planarity”, GD 1998, LNCS 1547, Springer, pp. 15-29, 1999.

[CONF-2] Walter Didimo, A. Leonforte, “GRID: An Interactive Tool for Computing Orthogonal Drawings With the Minimum Number of Bends”, GD 1997, LNCS 1353, Springer, pp. 309-315, 1998.

[CONF-1] Paola Bertolazzi, Giuseppe Di Battista, Walter Didimo, “Computing Orthogonal Drawings with the Minimum Number of Bends”, WADS 1997, LNCS 1272, Springer, pp. 331-344, 1997.

## BOOKS AND BOOK CHAPTERS

[BOOK-8] Walter Didimo, “Upward Graph Drawing”, Encyclopedia of Algorithms 2016, Springer Berlin Heidelberg, pp. 2308-2312.

[BOOK-7] Emilio Di Giacomo, Walter Didimo, “Fondamenti di Informatica in Java”, Maggioli Ed. 2014.

[BOOK-6] Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, “Spine and Radial Drawings”, in Handbook of Graph Drawing and Visualization (Roberto Tamassia Ed.), Chapman & Hall/CRC, ISBN: 1584884126, 2013.

[BOOK-5] Giuseppe Di Battista and Walter Didimo, “GDToolkit”, in Handbook of Graph Drawing and Visualization (Roberto Tamassia Ed.), Chapman & Hall/CRC, ISBN:1584884126, 2013.

[BOOK-4] Walter Didimo, Giuseppe Liotta, “The Crossing Angle Resolution in Graph Drawing”, Chapter in book: Thirty Essays on Geometric Graph Theory – Ed. Janos Pach, Springer, 2012.

[BOOK-3] Walter Didimo, Giuseppe Liotta, “Graph Visualization and Data Mining”, Chapter in book: Mining Graph Data - Ed. D. Cook and L. Holder, pp. 35-63, Wiley, 2007.

[BOOK-2] Giuseppe Di Battista, Walter Didimo, Maurizio Patrignani, Maurizio Pizzonia, “DBdraw - Automatic Layout of Relational Database Schemas”, Chapter in book: Graph Drawing Software - Ed. M. Juenger and P. Mutzel, pp. 237-256, Springer, 2003.

[BOOK-1] Gabriele Barbagallo, Andrea Carmignani, Giuseppe Di Battista, Walter Didimo, Maurizio Pizzonia, “Polyphemus and Hermes – Exploration and Visualization of Computer Networks”, Chapter in book: Graph Drawing Software - Ed. M. Juenger and P. Mutzel, pp. 341-364, Springer, 2003.