Curriculum Vitae
of

Walter Didimo

(March 2017)

SUMMARY

PERSONAL DATA AND CONTACTS

- **Date and place of birth:** 7 November 1971, Amelia (TR), ITALY
- **Home address**: Strada SS. ma Annunziata, 10 – 05022 Amelia (Terni), ITALY
- **Office address**: University of Perugia, Dipartimento di Ingegneria, Via G. Duranti 93 – 06125 Perugia, tel. +39 075 585-3680, fax. +39 075 585 3654.
- **E-mail**: walter.didimo@unipg.it
- **Web page**: http://mozart.diei.unipg.it/didimo/

SHORT BIOGRAPHY

Walter Didimo received the PhD in Computer Engineering from the University of Rome "La Sapienza" in April 2000. He is an associate professor of Computer Engineering at the University of Perugia since 2005. His research interests include Graph Drawing, Information Visualization, Algorithm Engineering, and Computational Geometry. He collected more than 130 international publications in the above areas. He served in organizing and program committees of international conferences, including the International Symposium on Graph Drawing, the ACM Symposium on Computational Geometry, and the IEEE Pacific Visualization Symposium. He has been co-chair of the 20th International Symposium on Graph Drawing and co-chair of the 28th European Workshop on Computational Geometry. Since 2006, he organizes the BICI Workshop on Graph Drawing in Bertinoro, an annual event where researchers from different countries work together on graph drawing problems. He has been involved in several national and international research projects, including projects supported by the Italian Ministry of Education and by the European Community. From May 2009 to November 2014 has been co-founder member of the academic spin-off Vis4 Srl. He received the National Scientific Qualification to be a full professor in Computer Engineering (09/H1) on December 3, 2013 and in Computer Science (01/B1) on January 29, 2014.

EDUCATION

- **20 April 2000**: Ph.D. in Computer Engineering at the University of Rome "La Sapienza".
  Title of the thesis: "Flow Techniques and Optimal Drawings of Graphs".
  Advisor: Prof. Giuseppe Di Battista.
  External Reviewers: Prof. Petra Putzel and Prof. Ioannis G. Tollis.

- **23 January 1996**: Degree in Mathematics, at the University of Rome "La Sapienza".

ACADEMIC POSITIONS

- **2005-today.** Associate professor at the Department of Engineering (Department of Electronic and Information Engineering in the past) of the University of Perugia. National Scientific Qualification for the role of full professor in Computer Engineering and in Computer Science.

- **2001-2004.** Researcher (assistant professor) at the Department of Electronic and Information Engineering, University of Perugia.

- **1999-2001.** Post-doc at the Department of Computer Science and Automation of the "Roma Tre" University.

- **October 1998 - March 1999.** Scholarship as visitor Ph.D. Student at the Max Plank Institute für Informatik in Saarbrüken, Germania.

- **1996.** Research contract at the Department of Computer Science and Automation of the "Roma Tre" University.

RESEARCH INTERESTS

Main research areas:

- Graph Drawing and Network Visualization
- Information Visualization
- Computational Geometry
- Data Mining and Information Retrieval

RESEARCH PROJECTS

- "Analysis, design, and development of algorithms and interfaces for the visual analysis of data within the Knowledge Discovery system PiattaformaPA & B2B", contract between the Department of Engineering of the University of Perugia and the company ETI3 Srl, within the regional program POR FESR Umbria 2014-2020 – Bando a Sostegno delle nuove PMI innovative - Asse I – Attività 1.3.1 (Italian Government) – **principal investigator** (€ 35.000) – duration: 9 months

- "Models and techniques for document categorization/indexing in the GLOBAL DOC system", contract between the Department of Engineering of the University of Perugia and the company Sistematica SpA, within the regional call Innovative Actions, FESR 2007-2013 (Italian Government) - **principal investigator** (€ 20,000) – duration: 1.5 months.

- "INFINITY - Models and algorithms for the visual representation of information on the driving styles of a big dataset of drivers", contract between the Department of Engineering of the University of Perugia and the company Sistematica SpA, within the regional call Innovative Actions, FESR 2007-2013 (Italian Government) – **principal investigator** (€ 30,000) – duration: 3 months.

- "SMARTOUR: Intelligent Platform for Tourism", MIUR (Italian Minstry of Research and Education) Proj. Smart Cities and Communities and Social Innovation, ref. SCN_00166 – **participant** (€ 247,680).

- "AMANDA: Algorithmics for MAssive and Networked DAta", MIUR (Italian Minstry of Research and Education) Proj. PRIN 2012, prot. 2012C4E3KT 001 – **participant (task leader)** (€ 55,000) – duration: 36 months.

- "VITA: Visualizzazione dell'Informazione e Tecnologie Assistive", Project of the Umbria Region (Italian Government) – **participant** (€ 100,000) – duration: 12 months.

- "TRART: Telematic Representation-Augmented Reality-Territories" – Project of the Umbria Region (Italian Government) – **participant** (€ 50,000) – duration 12 months.

- "AlgoDEEP: Algorithmic Challenges for Data-intensive Processing on Emerging Computing Platforms" – MIUR (Italian Minstry of Research and Education) Proj. (Prin'08) - prot. 2008TFBWL4 – **participant** (€ 13,500) – duration 24 months.

- "Monitoring service for the CCOS projects about FLOSS" – Project CCOS 2009 – Umbria Region (Italian Government) – **principal investigator** (€ 5,000) – duration: 12 months.

- "Audit service for the CCOS projects about FLOSS" – Project CCOS 2009 – Umbria Region (Italian Government) – **participant** (€ 5,000) – duration: 12 months.

- "A book on FLOSS software migration in the Umbria Region" - Project CCOS 2009 – Umbria Region (Italian Government) – **co-principal investigator** (€ 5,000) – duration: 12 months.

- "COWA: Conceptual Web Analyzer" – Regional Project (Italian Government), Innovative Actions - FESR 2006-2007 – **co-principal investigator** (€ 60,000) – duration: 7 months.

- "Guidelines to plan, monitor, and assess the migration activities towards FLOSS software in the public administration of the Umbria Region" – Project CCOS 2007 – Umbria Region (Italian Government) – **co-principal investigator** (€ 25,000) – duration: 12 months.

- "MAINSTREAM: Algorithms for Massive Information Structures and Data Streams" – MIUR (Ministry of Research and Education) Proj. (Prin'06) – **participant** (about € 13,000) – duration: 24 months.

- "Dissemination of DOCUP data Ob. 2, years 2005-7, about monitoring of industrial areas" – ARPA Umbria Region (Italian Government) – **participant** (€ 14,000) – duration: 3 months.

- "AREA: Design of an Interactive Platform for Environmental Education in the Umbria Region" – CRIDEA Umbria Region (Italian Government) – **participant** (€ 47,000) – 14 months.

- "Design and Development of software prototypes with the program: Automatic Systems for storing and accessing DNA, Blood, and other biological materials, prot. MIUR (Italian Ministry of Research and Education) n. S606/P" – contract between the Department of Electronic and Information Engineering and the company Angelantoni SpA - **co-principal investigator** (about € 200,000) – duration: 12 months.

- "HEALT for ALL in LA: Improving Health Care Access and Management through eLearning for Continuous Professional Development of Family Doctors in Latin America" – European Project, @LIS Program – **participant** (about € 300,000) – duration: 36 months.

- "ALGO-NEXT: Algorithms for the Next Generation Internet and Web: Methodologies, Design and Applications" – MIUR (Italian Ministry of Research and Education) Proj. (Prin'04) – **participant** – duration: 24 months.

- "ALINWEB: Algoritmica per Internet e per il Web" – MIUR (Italian Ministry of Research and Education) Proj. (Prin'02) – **participant** – duration: 24 months.

- "Robust Geometric Computing and its applications to computer graphics and CAD". Project of the CNR (Italian National Research Council) - **participant**.

- *"Algorithms for Large Data Sets: Science and Engineering"* – MIUR (Italian Ministry of Research and Education) Proj. (Prin'00) – **participant –** duration: 24 months.

EDITORIAL WORK

- **2014-today.** Member of the Editorial Board of the journal *International Scholarly Research Notices* (subject area: Discrete Mathematics).

- **2012-2014.** Member of the Editorial Board of the journal di *ISRN Combinatorics*.

- **2012-2013.** Guest Editor of the *Journal of Graph Algorithms and Applications (JGAA)*, Special Issue on Selected Papers from the 20th International Symposium on Graph Drawing, GD 2012.

- **2012-2013.** Guest Editor of the journal *Computational Geometry: Theory and Applications (CGTA)*, Special Issue on Selected Papers from 28th European Workshop on Computational Geometry, EuroCG 2012.

- **2012.** Editor of the volume: *Graph Drawing, 20th International Symposium, GD '12*, Redmond, WA, USA, September 2012, Revised Papers, volume 7704 in Lecture Notes in Computer Science, Springer-Verlag.

SCIENTIFIC COMMITTEES

- **2016.** International Symposium on Graph Drawing and Network Visualization, GD 2016 (**PC-member**).

- **2016**. 7th International Conference on Information, Intelligence, Systems and Applications (IISA 2015), Special Session GNV: Graph and Network Visualization (**PC member**).

- **2015**. 6th International Conference on Information, Intelligence, Systems and Applications (IISA 2015), Special Session GNV: Graph and Network Visualization (**PC member**).

- **2014**. Workshop on Graph Visualization in Practice (GraphVIP 2014), Melbourne, Australia (**PC member**).

- **2014**. 5th International Conference on Information, Intelligence, Systems and Applications (IISA 2014), Special Session GNV: Graph and Network Visualization (**PC member**).

- **2013**. IEEE Pacific Visualization Symposium, PacificVis 2013 (**PC member**).

- **2012.** International Symposium on Graph Drawing, GD 2012 (**PC co-chair**).

- **2012**. European Workshop on Computational Geometry, EuroCG 2012, (**PC co-chair**).

- **2012**. IEEE Pacific Visualization Symposium, PacificVis 2012 (**PC member**).

- **2011**. International Symposium on Graph Drawing, GD 2011 (**PC member**)

- **2011**. IEEE Pacific Visualization Symposium, PacificVis 2011 (**PC member**).

- **2010**. International Conference on Advanced Engineering Computing and Applications in Sciences, ADVCOMP 2010 (**PC member**).

- **2010**. Computer Graphics and Visualization, CGV 2010 (**PC member**).

- **2009**. International Conference on Advanced Engineering Computing and Applications in Sciences, ADVCOMP 2009 (**PC member**).

- **2009**. Computer Graphics and Visualization, CGV 2009 (**PC member**).

- **2008**. International Symposium on Graph Drawing, GD 2008 (**PC member**).

- **2008**. Computer Graphics and Visualization, CGV 2008 (**PC member**).

- **2007**. Computer Graphics and Visualization, CGV 2007 (**PC member**).

- **2006**. International Symposium on Graph Drawing, GD 2006 (**PC member**).

ORGANIZING COMMITTEES

- **2006-2017**. BICI Workshop on Graph Drawing, Bertinoro ITALY (**Organizing co-chair**).

- **2005**. ACM International Symposium on Computational Geometry, Pisa, ITALY – (**Organizing committee member**).

- **2003**. International Symposium on Graph Drawing (GD 2003), Perugia, ITALY – (**Organizing co-chair**).

SCIENTIFIC REVIEW ACTIVITY

- **List of the main journals**:

  – Algorithmica
  – Computational Geometry: Theory and Applications;
  – Computer and Graphics;
  – The Computer Journal
  – Discrete Applied Mathematics;

- − Discrete Mathematics;
- − Discussiones Mathematicae Graph Theory;
- − Graphs and Combinatorics;
- − IEEE Network Magazine;
- − IEEE Transactions on Visualization and Computer Graphics;
- − Information and Computation;
- − Information Sciences;
- − International Journal on Computational Geometry and Applications;
- − ISRN Combinatorics;
- − International Journal on Foundations of Computer Science;
- − Journal of Combinatorial Optimization;
- − Journal of Discrete Algorithms;
- − Journal of Experimental Algorithms;
- − Journal of Graph Algorithms and Applications;
- − Journal of Visual Languages and Computing;
- − Theoretical Computer Science.

- **List of the main conferences:** ISAAC'16, GD'16, IISA'16, GD'15, IISA'15, WALCOM'15, GD'14, ESA'14, GraphVIP'14, IISA'14, Infovis'13, EuroVis'13, PacificVis'13, GD'12, EuroVis'12, EuroCG'12, LATIN'12, WADS'11, PacificVis'11, GD'11, GD'10, PacificVis'10, SODA'09, GD'09, ADVCOMP'09, IWOCA'09, GD'08, CGV'08, CSR'08, WALCOM'08, GD'07, CGV'07, GD'06, GD'05, STACS'05, SOFSEM'05, GD'04, ESA'04, ESA'03, WADS'03, GD'03, GD'02, GD'01, GD'00, GD'99, GD'98, GD'97.

INVITED LECTURES

- Keynote speaker at the International Conference on Current Trends in Theory and Practice of Computer Science, SOFSEM 2005. Speech title: "Spine and Radial Drawings of Graphs".

- Tutorial at the IEEE PacificVis 2009 conference. Title of the speech: "Graph Visualization".

PHD STUDENTS

Advisor or co-advisor of the following PhD students:

- Alessio Arleo (2014-today)
- Fabrizio Montecchiani (2010-2013)
- Salvatore Agostino Romeo (2008-2011)
- Pietro Palladino (2006-2009)
- Francesco Giordano (2005-2008)

TEACHING

Degree Courses at the University of Perugia

- **2017-today**: Teacher of "Computational Models and Complexity" - Master's degree in Computer Engineering and Robotics (located in Perugia)

- **2017-today**: Teacher of "Programming for Internet and Web" - Master's degree in Computer Engineering and Robotics (located in Perugia)

- **2009-2016**: Teacher of "Theoretical Computer Science" - Master's degree in Computer and Automation Engineering (located in Perugia)

- **2009-2016**: Teacher of "Network Programming" - Master's degree in Computer and Automation Engineering (located in Perugia)

- **2003-today**: Teacher of "Fundamentals of Computer Science" - Undergraduate courses in Management Engineering, Energetic Engineering, and Industrial Engineering (located in Terni)

- **2003-2008**: Teacher of "Algorithms and Computational Models" – Master's degree in Computer and Telecommunication Engineering (located in Perugia)

- **2001-2008**: Teacher of "Data Elaboration Systems" - Undergraduate degree courses in Information Engineering (located in Perugia), and in Computer and Telecommunication Engineering (located in Orvieto)

- **1999-2001**: Teacher of "Data Elaboration Systems" - Undergraduate course in Telecommunication Engineering (located in Orvieto)

Degree courses at the "Roma Tre" University

- **1999-2001.** Teaching assistant of "Theoretical Computer Science" – Degree course in Computer Engineering

- **1999-2001** Teaching assistant of "Computer Architectures" – Degree course in Electronic Engineering

- **1999-2001.** Seminars for "Elaboration Systems" - Degree course in Computer Engineering

- **1998-2000.** Teaching assistant of "Fundamentals of Computer Science" - Degree course in Electronic Engineering

Ph.D. courses, post-degree e master courses.

- **2017.** Teacher of "Fundamentals of Computer Science" – second-level master in Data Science – University of Perugia.

- **2002.** Lessons in "Algorithm Engineering" – Ph.D. course in Information Engineering at the University of Perugia.

- **2002.** Teacher of computer science for the post-degree course "Expert in Web Marketing".

- **2002.** Teacher of computer science for the master course "Expert in Web Writing".

ACADEMIC AND OTHER PUBLIC SERVICES

- **2014-today.** Member of the Ph.D. School in Industrial and Information Engineering at the University of Perugia – responsible for the Information area since 2015.

- **2013-today.** Responsible for the teaching quality process of the Master's degree course in Computer and Automation Engineering of the University of Perugia.

- **2015.** Committee member for the final Ph.D. dissertation - Ph.D. School in Engineering at the Roma Tre University, XXVI and XXVII cycles.

- **2012**. Committee member for the final Ph.D. dissertation - Ph.D. School in Information Engineering of the University of Perugia, XXIII and XXIV cycles.

- **2009-2013.** Committee member for the Digital Services at the Engineering Faculty of the University of Perugia.

- **2006-2014.** Member of the Ph.D. School in Information Engineering at the University of Perugia.

- **2004-2013.** Member of the Computer Science Laboratory at the Engineering Faculty of the University of Perugia.

- **2006-2008.** Coordinator of the EUCIP (European Certification of Informatics Professionals) Center at the University of Perugia.

- **2006-2009.** Representative of the associate professor category in the Scientific-Disciplinary Committee of Area 09, Industrial and Information Engineering.

- **2007-2008.** Expert committee member in computer engineering for the Italian engineering professional qualification, at the Engineering Faculty of the University of Perugia.

TECHNOLOGY TRANSFER

2009-2014. Co-founder of the Vis4 Srl company, started as a spin-off of the University of Perugia, in the field of Computer Engineering and focused on Information Visualization and Visual Analytics. The established relevant contracts and collaborations with national and international companies and institutions, including the Financial Intelligence Agency (AIF) of the San Marino Republic and Fabrica, the advertisement company of the Benetton group. Vis4 was also one of the founding member companies of the GGB Consortium (Genomics, Genetics, and Biology), founded in the 2010 with the financial support of the Umbria Region; GGB is a center of technological excellence, both in the national and in the international contexts. In November 2014 all the academic members of Vis4 sold their shares to private entrepreneurs, and the company changed its name.

PUBLICATIONS IN INTERNATIONAL JOURNALS

[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, Sthephen 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. Mejier, "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.

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