

Curriculum Vitae
of

Walter Didimo

(November 2020)

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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 and Network Visualization, Information Visualization, Algorithm Engineering, Computational Geometry, Data Mining, Software Design and Experiments. He collected more than 150 international publications in the above areas. He is an associate editor of the IEEE Access journal and a member of the steering committee of the International Symposium on Graph Drawing and Network Visualization. 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 annual international event “BICI Workshop on Graph Drawing”, which takes place at the residential-university center of Bertinoro. He is currently the director of the Research Unit CINI at the University of Perugia. 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 he has been co-founder member of the academic spin-off Vis4 Srl. He received the National Scientific Qualification for full professorship in Computer Engineering (09/H1) and in Computer Science (01/B1).

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 Mutzel 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 full professorship 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 Saarbrücken, 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
- Algorithm Engineering
- Computational Geometry
- Data Mining and Information Retrieval
- Software Design and Experiments

RESEARCH PROJECTS

- [“Algorithms and Systems for the Visual Analysis of Complex and Large Networks”](#) – Basic Research 2018 - Department of Engineering of the University of Perugia – **principal investigator** (€ 7,000) – duration: 24 months.
- [“Algorithms and Systems for the Visual Analysis of Complex and Large Networks”](#) – Basic Research 2017 - Department of Engineering of the University of Perugia – **principal investigator** (€ 6,500) – duration: 24 months.
- [“AHeAD: efficient Algorithms for HARnessing networked Data”](#) - MIUR Proj. PRIN 2017, prot. 00120174LF3T8 – **participant** (€ 100,000) – duration: 36 months.
- [“CARE: A Regional Information System for Heart Failure and Vascular Diseases”](#) - Proj. PRJ-1507 Action 2.3.1 POR-FESR 2014-2020 – **participant** (€ 150,000) – duration: 24 mesi.
- [“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 Ministry 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 Ministry 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 Ministry 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

- **Since October 2018.** Associate Editor of the IEEE Access journal.
- **2014-2017.** 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

- **2021.** IEEE Pacific Visualization Symposium, PacificVis 2021 (**PC member**).
- **2020.** International Symposium on Graph Drawing and Network Visualization, GD 2020 (**PC member**).
- **2018-2020.** International Symposium on Graph Drawing and Network Visualization (**Steering Committee member**).
- **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**).
- **2011-2013.** International Symposium on Graph Drawing and Network Visualization (**Steering Committee 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

- **2006-2020.** 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 selected journals:**
 - Algorithmica
 - Computational Geometry: Theory and Applications;
 - Computer and Graphics;
 - The Computer Journal
 - Discrete Applied Mathematics;
 - Discrete Mathematics;
 - Discussiones Mathematicae Graph Theory;
 - Expert Systems with Applications;
 - Graphs and Combinatorics;
 - IEEE Access;
 - 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;
 - SoftwareX;
 - Theoretical Computer Science.
- **List of the selected conferences:** PacificVis '20, GD'18, GD'17, 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 PhD school on “Graph Drawing and Network Visualization” held at the Charles University of Prague, 16-17 September 2019.
- 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”.

AWARDS

- MIUR individual grant for base research activities in the year 2017, assigned to the Italian associate professors with high research productivity.

PHD STUDENTS

Advisor or co-advisor of the following PhD students:

- Giacomo Ortali (2018-2021)
- Alessio Arleo (2014-2018)
- 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

- **2021-:** Teacher of “[Computational Models and Advanced Algorithms](#)” - Master’s degree in Computer Engineering and Robotics (located in Perugia)
- **2017-2020:** 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 and 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 a master in “Expert in Web Writing”.

ACADEMIC AND OTHER PUBLIC SERVICES

- **2020.** Member of a competition commission for a Research Type A position at the Department of Engineering of the “Roma Tre” University, competition sector 09/H1.
- **2019-2022.** Director of the CINI Research Unit at the University of Perugia.
- **2019.** Member of a competition commission for a Research Type A position at the Department of Engineering of the University of Campania, “Luigi Vanvitelli”, competition sector 09/H1.
- **2014-today.** Member of the Ph.D. School in Industrial and Information Engineering at the University of Perugia – responsible for the teaching activities in 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-70] Lorenzo Angori, Walter Didimo, Fabrizio Montecchiani, Daniele Pagliuca, Aalessandra Tappini, "Hybrid Graph Visualizations with ChordLink: Algorithms, Experiments, and Applications", IEEE Transactions on Visualization and Computer Graphics, doi: 10.1109/TVCG.2020.3016055.

[JOUR-69] Walter Didimo, Luca Grilli, Giuseppe Liotta, Lorenzo Menconi, Fabrizio Montecchiani, Daniele Pagliuca: "Combining Network Visualization and Data Mining for Tax Risk Assessment", IEEE Access 8: 16073-16086, 2020.

[JOUR-68] Patrizio Angelini, Michael A. Bekos, Franz J. Brandenburg, Giordano Da Lozzo, Giuseppe Di Battista, Walter Didimo, Michael Hoffmann, Giuseppe Liotta, Fabrizio Montecchiani, Ignaz Rutter, Csaba D. Tóth, "Simple k-planar graphs are simple $(k + 1)$ -quasiplanar", J. Comb. Theory, Ser. B 142: 1-35, 2020.

[JOUR-67] Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani, "A Survey on Graph Drawing Beyond Planarity", ACM Computing Surveys 52(1): 4:1-4:37, 2019.

[JOUR-66] 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". Discrete Mathematics 342(4): 1038-1047, 2019.

[JOUR-65] Walter Didimo, Luca Grilli, Giuseppe Liotta, Fabrizio Montecchiani, Daniele Pagliuca, "Visual querying and analysis of temporal fiscal networks". Inf. Sci. 505: 406-421, 2019.

[JOUR-64] Walter Didimo, Giuseppe Liotta, Maurizio Patrignani, "HV-planarity: Algorithms and complexity". Journal of Computer and System Sciences, 99: 72-90, 2019.

[JOUR-63] 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-62] Patrizio Angelini, Michael A. Bekos, Walter Didimo, Luca Grilli, Philipp Kindermann, Tamara Mchedlidze, Roman Prutkin, Antonios Symvonis, Alessandra Tappini, “Greedy rectilinear drawings”. *Theor. Comput. Sci.* 795: 375-397, 2019

[JOUR-61] Michael A. Bekos, Felice De Luca, Walter Didimo, Tamara Mchedlidze, Martin Nöllenburg, Antonios Symvonis, Ioannis G. Tollis, “Planar drawings of fixed-mobile bigraphs”. *Theor. Comput. Sci.* 795: 408-419, 2019

[JOUR-60] 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-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.

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