

Curriculum Vitae
of

Walter Didimo

(December 2022)

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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. Since 2005, he has been an associate professor of Computer Engineering at the University of Perugia. 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 170 international publications in the above areas. He is an associate editor of the IEEE Access journal and served as a member of the steering committee of the International Symposium on Graph Drawing and Network Visualization from 2011 to 2014 and from 2018 to 2022. In 2012 he has been co-chair of the 20th International Symposium on Graph Drawing and co-chair of the 28th European Workshop on Computational Geometry. 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. Since 2006, he organizes the annual international event “BICI Workshop on Graph Drawing”, which takes place at the residential-university center of Bertinoro. From 2019 to 2022 he has been the director of the Research Unit CINI at the University of Perugia. He has been scientific coordinator or member of several national and international research projects. 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) (ASN 2012 and 2016).

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

- “Data driven techniques to tax evasion risk analysis” - contract between the Department of Engineering of the University of Perugia and the company KPMG SpA within the European call REFORM/SC2021/021 – **principal investigator** (€ 40,000) – duration: 16 months.
- “GO2ELECTRIC” – contract between the Department of Engineering of the University of Perugia and the company SolarEdge E-Mobility SpA, within the call POR-FESR 2014-2020 (Asse I, Azione 1.1.1) – **co-principal investigator** (€ 35,000) – duration: 15 months.
- “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.
- “SMARTOUR: Intelligent Platform for Tourism”, MIUR (Italian Ministry of Research and Education) Proj. PON Smart Cities and Communities and Social Innovation, ref. SCN_00166 – **participant** (€ 247,680).
- “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 Goodmen Srl, within the regional call Innovative Actions, POR-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, POR-FESR 2007-2013 (Italian Government) – **principal investigator** (€ 30,000) – duration: 3 months.
- “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 SERVICES

- **Since October 2018.** Associate Editor of the IEEE Access journal.
- **2021.** Guest Editor of the journal *Future Internet* (MDPI), Special Issue on “Information Processing and Management for Large and Complex Networks”, Section on “Big Data and Augmented Intelligence”.
- **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

- **2023.** IEEE Pacific Visualization Symposium, PacificVis 2023 (**PC member**).
- **2022.** IEEE Pacific Visualization Symposium, PacificVis 2022 (**PC member**).
- **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

- **2006-2019.** 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

- **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.
- **Selected conferences:** PacificVis'22, GD'22, PacificVis'21, GD'21, PacificVis'20, GD'20, GD'19, 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, IWOCOA'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 AND AWARDS

- 2022 - Invited speaker at the Workshop “Constrained Graph Layouts” - STOC'22 (54th Annual ACM Symposium on Theory of Computing).
- 2021/2022 – Included in the “2% top scientists” in the world over all disciplines, according to the study in the article “Updated science-wide author databases of standardized citation indicators”, by Jeroen Baas, Kevin Boyack, John P.A. Ioannidis, published in the scientific international journal “Plos Biology” on 3 August 2020 (update August 2021 - <https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/3> and update September 2022 - <https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/>).
- 2019 - Keynote speaker at the PhD school on “Graph Drawing and Network Visualization” held at the Charles University of Prague, 16-17 September 2019.
- 2009 - Tutorial at the IEEE PacificVis 2009 conference. Title of the speech: “Graph Visualization”.
- 2005 - 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”.
- 2021 – Best paper award – 29th International Symposium on Graph Drawing and Network Visualization.

- 2017 - MIUR individual grant for base research activities in the year 2017, assigned to the Italian associate professors with high research productivity.
- 2016 - Highly Cited Research Award from Elsevier for the following journal publication: "Walter Didimo, Density of Straight-line 1-planar graph drawing, in Information Processing Letters, 2013"
- 2016 – Highly Cited Research Award from Elsevier for the following journal publication: "Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani, Area Requirement of Graph Drawings with Few Crossings per Edge, Computational Geometry:Theory and Applications, 2013"

PHD STUDENTS

Advisor or co-advisor of the following PhD students:

- Giacomo Ortali (2018-2022)
- 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-present:** 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-present:** 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-present:** 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

- **2022-present.** Member of the OpenBadge Commission of the University of Perugia.
- **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. Vis4 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-77] Carla Binucci, Walter Didimo, Fabrizio Montecchiani, “1-Planarity testing and embedding: An experimental study”, *Computational Geometry: Theory and Applications*, 108 101900, 2023. (online publication 26 May 2022 – 10.1016/j.comgeo.2022.101900).

[JOUR-76] Luca Consalvi, Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani: *BrowVis: Visualizing Large Graphs in the Browser*. *IEEE Access* 10: 115776-115786 (2022)

[JOUR-75] Alessio Arleo, Walter Didimo, Giuseppe Liotta, Silvia Miksch, Fabrizio Montecchiani, “Influence Maximization with Visual Analytics”, *IEEE Transactions on Visualization and Computer Graphics*, 10.1109/TVCG.2022.3190623, 2022.

[JOUR-74] Michael A. Bekos, Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani, “Universal Slope Sets for Upward Planar Drawings”, *Algorithmica*, 84(9): 2556–2580, 10.1007/s00453-022-00975-3, 2022.

[JOUR-73] Michael A. Bekos, Carla Binucci, Giuseppe Di Battista, Walter Didimo, Martin Gronemann, Karsten Klein, Maurizio Patrignani, and Ignaz Rutter, “On Turn-Regular Orthogonal Representations”, *Journal of Graph Algorithms and Applications*, 26(3): 285-306, 2022. (10.7155/jgaa.00595)

[JOUR-72] Carla Binucci, Walter Didimo, Michael Kaufmann, Giuseppe Liotta, Fabrizio Montecchiani, “Placing Arrows in Directed Graph Layouts: Algorithms and Experiments”, *Computer Graphics Forum*, 41(1), pp. 364-376, 2022.

[JOUR-71] Lorenzo Angori, Walter Didimo, Fabrizio Montecchiani, Daniele Pagliuca, Alessandra Tappini, "Hybrid Graph Visualizations with ChordLink: Algorithms, Experiments, and Applications", *IEEE Transactions on Visualization and Computer Graphics*, 28(2): 1288-1300, 2022. (online publication 12 August 2020 - 10.1109/TVCG.2020.3016055).

[JOUR-70] Emilio Di Giacomo, Walter Didimo, Michael Kaufmann, Giuseppe Liotta: “Stable visualization of connected components in dynamic graphs”. *Information Visualization*, 20(1): 3-19, 2021.

[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”, *Journal of Combinatorial Theory, Series 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”. *Information Sciences*, 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”. *Theoretical Computer Science*, 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”. *Theoretical Computer Science*, 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, 2019.
- [JOUR-59]** Alessio Arleo, Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani, “Profiling distributed graph processing systems through visual analytics”, *Future Generation Computer Systems*, 87: 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): 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): 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: 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: 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: 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): 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): 81-102, 2017.

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