Curriculum Vitae of

Walter Didimo

(June 2026)

SUMMARY

Personal Information and Institutional Contacts

Name and Surname	Walter Didimo
Place and date of birth	Amelia (Terni) - Italy, 7/11/1971
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Google Scholar Profile	https://scholar.google.it/citations?user=NaJNDWEAAAAJ&hl=it
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Short Biography

Walter Didimo received his Ph.D. in Computer Engineering from Sapienza University of Rome in 2000. He is currently Full Professor at the Department of Engineering of the University of Perugia in the academic field IINF-05/A. His research interests include Algorithm Engineering, Information Visualization, Graph Drawing, Computational Geometry and Data Mining, areas in which he has authored more than 200 international scientific publications. Since 2018 he has been Associate Editor of the scientific journal IEEE Access. He served as a member of the steering committee of the International Symposium on Graph Drawing and Network Visualization from 2011 to 2014 and again from 2018 to 2021. In 2012 he was co-chair of the 20th International Symposium on Graph Drawing and co-chair of the 28th European Workshop on Computational Geometry. He has served on several scientific and organizing committees of international conferences, including the Symposium on Graph Drawing and Network Visualization, the ACM Symposium on Computational Geometry, and the IEEE Pacific Visualization Symposium. Since 2006 he has organized the annual international BICI Workshop on Graph Drawing (BWGD), hosted at the Bertinoro University Residential Center. He was director of the CINI Research Unit at the University of Perugia from 2019 to 2022, and since 2019 he has been the GII site representative for the same university. He has coordinated or participated in several national and international scientific research projects. He was a co-founding member of the university spin-off Vis4 S.r.l. from 2009 to 2014. Since November 2024 he has chaired the Intercourse Council in Information Engineering at the Department of Engineering of the University of Perugia.

Education and Training

Academic degrees obtained by Walter Didimo.

- **20 April 2000.** Ph.D. in Computer Engineering (12th cycle) at the Department of Computer Science and Systems of Sapienza University of Rome.
  Thesis title: "Flow Techniques and Optimal Drawings of Graphs".
  Advisor: Prof. Giuseppe Di Battista.

- **23 January 1996.** Degree in Mathematics at Sapienza University of Rome.

ACADEMIC POSITIONS

List of the main academic positions held by Walter Didimo:

- **15 January 2024 – present**. Full Professor at the Department of Engineering of the University of Perugia, in the academic disciplinary field IINF-05/A (former ING-INF/05).

- **3 January 2005 – 14 January 2024**. Associate Professor at the Department of Engineering (formerly Department of Electronic and Information Engineering) of the University of Perugia. Qualified as Full Professor in the competition sectors 09/H1 (SSD ING-INF/05) "Information Processing Systems" and 01/B1 (SSD ING-INF/01) "Computer Science" (ASN 2012 and 2016).

- **September 2001 – December 2004.** University Researcher at the Department of Electronic and Information Engineering, University of Perugia.

- **December 1999 – August 2001.** Post doc at the Department of Computer Science and Automation of Roma Tre University (research-grant title: "Algorithms and Languages for Visualization").

- **October 1998 – March 1999.** Research contract at the Max Planck Institute für Informatik in Saarbrücken, Germany, as a visiting Ph.D. student (research group "Algorithms and Complexity").

- **1997 – 2000.** Ph.D. student in Computer Engineering at the Department of Computer Science and Systems of "Sapienza" University of Rome.

- **1996.** Collaboration contract for research activities at the Department of Computer Science and Automation of Roma Tre University.

TEACHING AND STUDENT SERVICES

Teaching Responsibilities in University Degree Programs

List of Walter Didimo's academic teaching responsibilities.

Degree Programs at the University of Perugia

- **2020/21 – present.** "Computational Models and Advanced Algorithms" – Master's degree program in Computer Engineering and Robotics (Perugia campus) – 9 CFU.

- **2016/17 – present.** "Internet and Web Programming" – Master's degree program in Computer Engineering and Robotics (Perugia campus) – 9 CFU, 6 CFU starting from 2024/25.

- **2016/17 – 2019/20 [4 years].** "Computational Models and Complexity" – Master's degree program in Computer Engineering and Robotics (Perugia campus) – 9 CFU.

- **2009/10 – 2015/16 [7 years].** "Theoretical Computer Science" – Master's degree program in Computer and Automation Engineering (Perugia campus) – 9 CFU.

- **2009/10 – 2015/16 [7 years].** "Network Programming" – Master's degree program in Computer and Automation Engineering (Perugia campus) – 9 CFU.

- **2003/04 – 2008/09 [6 years].** "Algorithms and Computational Models" – Specialist degree program in Computer and Telecommunications Engineering (Perugia campus) – 6 CFU.

- **2001/02 – 2008/09 [8 years].** "Data Processing Systems" – Bachelor's degree programs in Information Engineering and Computer and Electronic Engineering (Perugia campus) – 5 CFU.

- **2001/02 – 2008/09 [8 years].** "Data Processing Systems" – Bachelor's degree program in Computer and Telecommunications Engineering (Orvieto campus) – 5 CFU.

- **2013/14 – 2022/23 [10 years].** "Fundamentals of Computer Science" (course "Geometry and Computer Science") – Bachelor's degree program in Industrial Engineering (Terni campus) – 5 CFU.

- **2011/12 – 2012/13 [2 years].** "Fundamentals of Computer Science" (course "Geometry and Computer Science") – Bachelor's degree program in Industrial Engineering (Terni campus) – 6 CFU.

- **2009/10 – 2010/11 [2 years].** "Fundamentals of Computer Science" – Bachelor's degree program in Management and Information Engineering (Terni campus) – 9 CFU.

- **2007/08 – 2008/09 [2 years].** "Fundamentals of Computer Science" – Bachelor's degree program in Management Engineering (Terni campus) – 6 CFU.

- **2003/04 – 2006/07 [4 years].** "Fundamentals of Computer Science" – Bachelor's degree programs in Management Engineering, Energy Engineering and Materials Engineering (Terni campus) – 6 CFU.

- **1999/00 – 2000/01 [2 years].** "Data Processing Systems" – University Diploma in Telecommunications Engineering (Orvieto campus).

Seminars and Tutoring Activities in University Degree Programs

List of Walter Didimo's main seminar and tutoring activities in academia.

Degree Programs at the University of Perugia

- **2001/02 – 2005/06 [5 years].** Practical classes and seminars for the courses "Fundamentals of Computer Science I", "Fundamentals of Computer Science II" and "Computer Methods for the Internet" – Bachelor's degree programs in Information Engineering and Computer and Electronic Engineering (Perugia campus).

- **2002/2003 [1 year].** Tutoring for the courses "Fundamentals of Computer Science", "Fundamentals of Computer Science I" and "Fundamentals of Computer Science II" – Bachelor's degree programs in Information Engineering (Perugia campus), Materials Engineering and Management Engineering (Terni campus).

- **2002/2003 [1 year].** Remedial course in "Fundamentals of Computer Science" – Bachelor's degree program in Materials Engineering (Terni campus).

Degree Programs at Roma Tre University

- **1999/00 – 2000/01 [2 years].** Practical classes and teaching support activities for the course "Theoretical Computer Science" – Degree program in Computer Engineering.

- **1999/00 – 2000/01 [2 years].** Practical classes and teaching support activities for the course "Computer Architectures" – Degree program in Electronic Engineering.

- **1999/00 – 2000/01 [2 years].** Seminars for the course "Processing Systems" - Degree program in Computer Engineering.

- **1998/99 – 1999/2000 [2 years].** Teaching support activities for the course "Fundamentals of Computer Science" – Degree program in Electronic Engineering.

Teaching Activities for Ph.D., Master's and Post-Diploma Courses

List of Walter Didimo's main teaching responsibilities for Ph.D., master's and post-diploma courses.

- **2019-2023.** Instructor of courses in the fields of "Programming Techniques" and "Computer Science" (155 hours) for post-diploma training courses organized by ITS Umbria Academy.

- **2018.** Instructor of a course (40 hours) for post-diploma training on "Software Application Programming" – contract with the training organization ECIPA UMBRIA SCARL.

- **2017.** "Fundamentals of Computer Science" (14 hours) – second-level Master's program in "Data Science" – University of Perugia.

- **2002.** Seminars on "Algorithm Engineering" – Ph.D. program in Information Engineering at the University of Perugia.

- **2002.** "Computer Networks" and "Fundamentals of Computer Science with Java" for the post-diploma course "Web Marketing Specialist" (48 hours), within a project in collaboration between the University of Perugia and the Industrial Associations of Perugia.

- **2002.** "Fundamentals of Computer Science" (20 hours) for the master's program "Web Writing Specialist", within a project in collaboration between Sapienza University of Rome and the Fondazione Centro Studi Città di Orvieto.

- **2000.** Computer science lectures for a post-diploma course titled "Elements of Internet Computing", within an IFTS project between the University of Perugia and the State Institute for Vocational and Technical Education of Assisi.

- **2000.** Professional training activity (10 hours) on network devices within a collaboration contract between Roma Tre University and Cabletron.

Examination Committees

The following lists Walter Didimo's main participation in academic examination committees.

Degree programs

- **2001/2002 – present.** Member of the examination committees for all courses in the ING-INF/05 sector (now IINF-05/A) in bachelor's and master's degree programs of the Department of Engineering of the University of Perugia.
- **1999/00 – 2000/01.** Member of the examination committees for the courses Theoretical Computer Science (Degree Program in Computer Engineering) and Computer Architectures (Degree Program in Electronic Engineering) at Roma Tre University.
- **2001-present.** Regular participation in bachelor's and master's degree examination committees of the Department of Engineering (formerly the Faculty of Engineering), also as committee chair.

Ph.D. programs

- **2025.** Member of the examining committee for the Ph.D. thesis of Alexander Dobler, TU Wien.
- **2022.** Member of the examining committee for the final Ph.D. examination in Industrial and Information Engineering, 34th cycle, at the Department of Engineering of the University of Perugia.
- **2019.** Member of the examining committee for the final Ph.D. examination in Computer Science and Automation, 31st cycle, at the Department of Engineering of Roma Tre University.
- **2015.** Member of the examining committee for the final Ph.D. examination in Computer and Automation Engineering, 27th cycle, at the Department of Engineering of Roma Tre University.
- **2012.** Member of the examining committee for the final Ph.D. examination in Information Engineering at the University of Perugia, 23rd-24th cycles.

State Examinations qualifying for engineering profession

- **November 2025.** Chair of the committee for the state examinations for qualification as a professional engineer at the Department of Engineering and the Department of Civil and Environmental Engineering of the University of Perugia.
- **July 2025.** Chair of the committee for the state examinations for qualification as a professional engineer at the Department of Engineering and the Department of Civil and Environmental Engineering of the University of Perugia.
- **June 2008.** Expert member in the ING-INF/05 sector of the committee for state examinations for qualification as a professional engineer at the Faculty of Engineering of the University of Perugia.
- **November 2007.** Expert member in the ING-INF/05 sector of the committee for state examinations for qualification as a professional engineer at the Faculty of Engineering of the University of Perugia.
- **June 2007.** Expert member in the ING-INF/05 sector of the committee for state examinations for qualification as a professional engineer at the Faculty of Engineering of the University of Perugia.

Degree Theses

Walter Didimo's activity as supervisor of bachelor's and master's theses.

- **2001-present.** Supervisor of more than 150 degree theses.
- **2022.** Co-supervisor of a master's thesis that received the "Renato Mariani Degree Award 2023". Thesis title: "Design and Development of a Software System for the Analysis of Semantic Networks". Author: Jacopo Cancellieri.

- **2020.** Supervisor of a master's thesis that received the "Renato Mariani Degree Award 2020". Thesis title: "A Visual Analysis System for Complex Networks Based on a Hybrid Representation Model". Author: Lorenzo Angori.
- **2010.** Supervisor of a specialist degree thesis that received the "Giorgio Santini Degree Award 2010" for the best degree thesis in computer engineering. Thesis title: "Analysis, Design and Development of a Software System for the Visual Analysis of Criminal Networks". Author: Fabrizio Montecchiani.

Ph.D. Theses

Walter Didimo's activity as supervisor of Ph.D. theses.

- **2008-2022. Co-advisor of 4 Ph.D. students:**
  - Giacomo Ortali (2018- 2022) – "Efficient Algorithms for Computing Orthogonal and Upward Drawings of Graphs"
  - Alessio Arleo (2014-2018) – "Distributed Large Graph Visualization"
  - Fabrizio Montecchiani (2010-2013) – "Crossing Complexity in Graph Drawing"
  - Salvatore Agostino Romeo (2008-2011) – "Drawing non-planar graphs with large angle crossings"

- **2005-2009. Assistance for 2 Ph.D. theses:**
  - Pietro Palladino (2006-2009) – "Paradigms and Systems for the Visual Analysis of Large Networks"
  - Francesco Giordano (2005-2008) - "Computing Planar Drawings of Hierarchical Structures"

SCIENTIFIC RESEARCH ACTIVITY

Research Groups: Organization, Direction and Participation

List of the main roles held by Walter Didimo within research groups.

- **2019-2022.** Director of the CINI Research Unit (Consorzio Interuniversitario Nazionale for the Computer Science) at the University of Perugia (http://cini.unipg.it/).
- **2019-present.** Member of the CINI Laboratory "Big Data" at the node of the University of Perugia (https://bigdata.unipg.it/).
- **2021-present.** Member of the CINI Laboratory "Smart Cities & Communities" at the node of the University of Perugia.
- **2021-present.** Member of the CINI Laboratory "HPC: Key Technologies and Tools" at the node of the University of Perugia.
- **2021-present.** Member of the CINI Laboratory "Digital Health" at the node of the University of Perugia.
- **2005-present.** Member of the research group "GDV: Graph Drawing and Data Visualization" (http://mozart.diei.unipg.it/gdv/).
- **1999-2001.** Coordination activity for the design and development of the software library for Graph Drawing, GDToolkit (http://www.dia.uniroma3.it/~gdt), developed by the computer engineering group of the Department in Computer Science and Automation of Roma Tre University.
- **1998-1999.** Member of the research group "Algorithms and Complexity" at the Max Planck Institute für Informatik in Saarbrücken, Germany (https://www.mpi-inf.mpg.de/departments/algorithms-complexity/people/former-members).https://www.mpi-inf.mpg.de/departments/algorithms-complexity/people/former-members
- **1998-present.** Participation in the Research Units of several national and international scientific projects, at Roma Tre University and at the University of Perugia (see the "Research Project Funding" section of this CV for further details).

Awards and Recognition for Research Activity

List of the main awards and recognitions received by Walter Didimo for his research activity.

- 2021-2022. Included in the list of the "2% top scientists" worldwide across all disciplines, based on the analytical study described in the article "Updated science-wide author databases of standardized citation indicators", by Jeroen Baas, Kevin Boyack and John P.A. Ioannidis, published in the 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).
- 2021. Best paper award for the scientific paper "A User Study on Hybrid Graph Visualizations" – 29th International Symposium on Graph Drawing and Network Visualization.
- 2017. Individual MIUR grant for basic research activities for the year 2017, awarded to associate professors with high scientific productivity.
- 2016. Highly Cited Research Award from Elsevier for the following journal publication: "Walter Didimo, Density of Straight-line 1-planar graph drawing, in Inf. Processing Letters 113(7), 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, Comput. Geometry: Theory and Applications 46(8), 2013".
- 2015. Recognition medal received from the Bertinoro University Residential Center of the University of Bologna, for ten years of organizing the international scientific workshop "BWGD – Bertinoro Workshop on Graph Drawing".

Technology Transfer

- 2009-2014. Co-founding partner of Vis4 Srl, a spin-off of the University of Perugia operating in the field of Computer Engineering and, more specifically, Information Visualization and Visual Analytics. Vis4 developed contracts and collaborations with various public bodies and private companies, including the Financial Intelligence Agency (AIF) of the Republic of San Marino and Fabrica, the advertising company of the Benetton group. Vis4 was among the founding members of the Genomics, Genetics and Biology Innovation Hub (GGB), established in December 2010 with the support of the Umbria Region. In November 2014, Vis4 was successfully sold to private entrepreneurs and at the same time changed its name.
- 2002-present. Ongoing collaborations with ICT companies and public bodies for the development of algorithms and systems in industrial and public-administration contexts (see the "Research Project Funding" section of this CV for details).

Research Project Funding

Walter Didimo has participated or currently participates in several research projects funded by public bodies or private companies, also as principal investigator or co-principal investigator. Most projects funded by private companies are part of national MIUR projects, regional POR-FESR projects, or European Community projects. The individual grants are listed below, with the role held for each project.

- 2023 – 2025. "EXPAND: scalable algorithms for EXPloratory Analyses of heterogeneous and dynamic Networked Data", MUR Proj. PRIN, prot. 2022TS4Y3N – participant.

- 2023 – 2025. "ACOI – Assessing conflict of interests ", MUR Proj. PRIN-PNRR, prot. P2022JSLZW – participant.

- 2022 – 2025. “RASTA - Augmented Reality and Automated Story-Telling for the Enhancement of Cultural Heritage and Itineraries”, MUR Proj. PON n. ARS01_00540, CUP B92F20000500005 – duration: 30 months (€ 245.519,68 UniPG unit cost, € 4.048.390,05 total cost) – participant.

- 2022 – 2024. "AIDMIX-Artificial Intelligence for Decision making: Methods for Interpretability and eXplainability” - Basic Research Fund dell'University of Perugia 2021 - (Base Research of the University of Perugia 2021) - WP leader

- 2022 – 2023. “For Fair Justice: Innovation and Efficiency in Judicial Offices / Giustizia AGILE”, MUR PON Governance and Institutional Capacity 2014-2020, CUP: J89J22000900005 – duration: 18 months (€ 8,001,889.50 total project cost) – participant.

- 2021–2023. “Data driven techniques to tax evasion risk analysis" - contract between il Department of Engineering dell'University of Perugia and the company KPMG SpA., within the European call REFORM/SC2021/021 – duration: 16 months (€ 40.000) – principal investigator.

- 2021–2022. "GO2ELECTRIC" – contract between il Department of Engineering dell'University of Perugia and the company SolarEdge E-Mobility SpA., within the program POR-FESR 2014-2020 (Asse I, Azione 1.1.1) – duration: 15 months (€ 35.000) – co-principal investigator.

- 2018–2019. “Algorithms and Systems for the Visual Analysis of Complex and Large Networks" - Basic Research 2018, University of Perugia” – duration: 24 months (€ 7.000) – principal investigator.

- 2017–2018. “Algorithms and Systems for the Visual Analysis of Complex and Large Networks" - Basic Research 2017, University of Perugia” – duration: 24 months (€ 6.500) – principal investigator.

- 2019–2022. “AHeAD: efficient Algorithms for HArnessing networked Data” - MIUR Proj. PRIN 2017, prot. 00120174LF3T8 – duration: 36 months (€ 131.000 UniPG unit cost, € 594.860 total cost) – participant.

- 2019–2022. “CARE: A Regional Information System for Heart Failure and Vascular Diseases” - Proj. PRJ-1507 Action 2.3.1 POR-FESR 2014-2020 – duration: 24 months (€ 113,780 cost for the Engineering Department of UniPG, € 550,000 total cost) – participant.

- 2019–2022. “SMARTOUR: Intelligent Platform for Tourism”, MIUR Proj. PON Smart Cities and Communities and Social Innovation, ref. SCN_00166 – duration 36 months (€ 309.600 UniPG cost, € 12.597.009 total cost) – participant and work-package coordinator.

- 2016. “Analysis, Design and Development of Algorithms and Interfaces for the Visual Analysis of Data within the Knowledge Discovery System PiattaformaPA & B2B”, contract between il Department of Engineering of the University of Perugia and the company ETI3 Srl, within the program POR FESR 2014-2020 – Bando a Sostegno delle nuove PMI innovative - Asse I – Attività 1.3.1 – duration: 9 months (€ 35.000) – co-principal investigator.

- 2015. “Models and Techniques for Document Classification/Indexing within the GLOBAL DOC System”, contract between il Department of Engineering dell'University of Perugia and the company G-DOC Srl, within the regional call Innovative Actions, POR-FESR 2007-2013 –duration: 1,5 months (€ 20.000) – principal investigator.

- 2014. “INFINITY - Development of Models and Algorithms for Representing Information on Driving-Style Parameters in Large User Bases”, contract between il Department of Engineering dell'University

of Perugia and the company Sistematica SpA, within the regional call Innovative Actions, POR-FESR 2007-2013 – duration: 3 months (€ 30.000) – principal investigator.

- 2013–2016. "AMANDA: Algorithmics for MAssive and Networked DAta", MIUR Proj. PRIN 2012, prot. 2012C4E3KT 001 – duration: 36 months (€ 55.713 UniPG unit cost, € 477.537 total cost) – participant and task leader.

- 2013–2014. "VITA: Information Visualization and Assistive Technologies", Project of the Umbria Region – duration: 12 months (€ 50.000 Dip. Ingegneria, € 100.000 totale progetto) – participant.

- 2011–2012. "TRART: Enhancement of the Umbrian Landscape Heritage through the Use of Telematic Technologies" – Project of the Umbria Region – duration: 12 months (€ 50.000) – participant.

- 2010–2012. "AlgoDEEP: Algorithmic Chto thenges for Data-intensive Processing on Emerging Computing Platforms" – MIUR Project (Prin'08) - prot. 2008TFBWL4 – duration: 24 months (€ 20.000 UniPG unit cost, € 130.000 total cost) – participant.

- 2009. "Monitoring Service for FLOSS Projects Funded by CCOS" – CCOS 2009 Project – Umbria Region – duration: 12 months (€ 5,000) – principal investigator.

- 2009. "Audit Service for FLOSS Projects Funded by CCOS" – CCOS 2009 Project – Umbria Region – duration: 12 months (€ 5,000) – participant.

- 2009. "Drafting of a Book on the Experience of Migration to FLOSS Software in the Umbria Region" - Progetti CCOS 2009 - Umbria Region – duration: 12 months (€ 5.000) – co-principal investigator.

- 2008–2009. "COWA: COnceptual Web Analyzer" – Regional Project, Innovative Actions – POR-FESR 2006-2007 – duration: 7 months (€ 60.000) – co-principal investigator.

- 2007. "Guidelines for Planning, Monitoring and Evaluating Migration Activities toward FLOSS Software in Public Bodies of the Umbria Region" – CCOS 2007 Project – Umbria Region – duration: 12 months (€ 25,000) – co-principal investigator.

- 2006–2008. "MAINSTREAM: Algorithms for Massive Information Structures and Data Streams" – MIUR Project (Prin'06) – duration: 24 months (€ 19.000 UniPG cost, € 187.000 total cost) –participant.

- 2008. "Dissemination of DOCUP Obj. 2 Data, Years 2005-7, on Monitoring Industrial Areas" – ARPA Umbria Region – duration: 3 months – participant (€ 14.190).

- 2006–2007. "Establishment of an Information System for Environmental Education and Sustainable Development Experiences (AREA)" – CRIDEA Umbria Region – duration: 14 months (€ 47.000) – participant.

- 2004–2005. "Design and Development of Software Prototypes within the Program: Robotic Systems for the Storage of DNA, Blood and Biological Materials at Low Temperature, MIUR Protocol No. S606/P", contract between il Department of Electronic and Information Engineering and the company Angelantoni SpA –duration: 12 months (€ 186.590) – co-principal investigator.

- 2003–2007. "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 – duration: 36 months (€ 390,000 cost for the Department of Electronic and Information Engineering of UniPG, approximately € 2.7M total cost) – participant.

- **2002–2003.** "Design and Development of a Software Prototype for the Hemosafe Refrigerated Archive", contract between il Department of Electronic and Information Engineering and the company Angelantoni SpA –duration: 3 months (€ 20.000) – participant.

- **2004–2007.** "ALGO-NEXT: Algorithms for the Next Generation Internet and Web: Methodologies, Design and Applications" – MIUR Project (Prin'04) – duration: 24 months (€ 17.000 UniPG unit cost, approximately € 100.000 total cost) – participant.

- **2002–2004.** "ALINWEB: Algorithmics for the Internet and the Web" – MIUR Project (Prin'02) – duration: 24 months (€ 17.000 UniPG unit cost, approximately € 100.000 total cost) – participant.

- **2000–2002.** "Algorithms for Large Data Sets: Science and Engineering" – MIUR Project (PRIN 2000) – duration: 24 months (€ 15,000 cost for the Roma Tre/UniPG unit, approximately € 100,000 total cost) – participant.

- **1998–2000.** "Robust Computational Geometry with Applications to Graphics and CAD". CNR Project (National Research Council – Italy) – duration: 24 months (€ 12,000 cost for the Roma Tre unit, approximately € 36,000 total cost) – participant.

Editorial Boards and Review Activity

List of Walter Didimo's main roles in editorial boards and review activity.

- **2018-present.** Associate Editor of the journal IEEE Access (Quartile Scimago Q1 – Impact Factor 3.6).

- **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" (Quartile Scimago Q2).

- **2012-2013.** Guest Editor of the journal Journal of Graph Algorithms and Applications (Brown University), Special Issue on Selected Papers from the 20th International Symposium on Graph Drawing, GD 2012 (Quartile Scimago Q1).

- **2012-2013.** Guest Editor of the journal Computational Geometry: Theory and Applications (Elsevier), Special Issue on Selected Papers from the 28th European Workshop on Computational Geometry, EuroCG 2012 (Scimago quartile Q2 in 2012 and Q1 in 2013).

- **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.

- **2014-2017.** Member of the Editorial Board of the journal International Scholarly Research Notices (Hindawi).

- **2012-2014.** Member of the Editorial Board of the journal ISRN Combinatorics (Hindawi).

- **1997-present.** Reviewer of more than 120 scientific papers for various international journals in Computer Science, Computer Engineering and Discrete Mathematics. The main journals are listed below in alphabetical order.

- Algorithmica (Springer)
- Computational Geometry: Theory and Applications; (Elsevier)
- Computers and Graphics (Elsevier)
- Computer Journal (Oxford University Press)
- Discrete Applied Mathematics (Elsevier)
- Discrete Mathematics (Elsevier);
- Discussiones Mathematicae Graph Theory (University of Zielona Gora)
- Expert Systems with Applications (Elsevier)
- Graphs and Combinatorics (Springer)
- IEEE Access (IEEE Computer Society)
- IEEE Network Magazine (IEEE Computer Society)
- IEEE Transactions on Visualization and Computer Graphics (IEEE Computer Society)
- Information and Computation (Elsevier)
- Information Sciences (Elsevier)
- International Journal of Computational Geometry and Applications (World Scientific Publishing Co.)
- International Journal of Foundations of Computer Science (World Scientific Publishing Co.)
- Journal of Combinatorial Optimization (Springer)
- Journal of Discrete Algorithms (Elsevier)
- Journal of Experimental Algorithms (ACM)
- Journal of Graph Algorithms and Applications (Brown University)
- Journal of Visual Languages and Computing (Elsevier)
- Network Science (Cambridge Univ. Press)
- SoftwareX (Elsevier)
- Theoretical Computer Science (Elsevier)

- **1997-present.** Review activity for numerous international scientific conferences, including: PacificVis'26, GD'25, WALCOM'25, SoCG'24, PacificVis'24, GD'23, PacificVis'23, PacificVis'22, GD'22, PacificVis'21, GD'21, PacificVis'20, GD'20, SWAT'20, WG'20, GD'19, GD'18, GD'17, ISAAC'16, GD'16, IISA'16, SoCG'16, GD'15, IISA'15, WALCOM'15, GD'14, ESA'14, GraphVIP'14, IISA'14, Infovis'13, EuroVis'13, PacificVis'13, WG'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.

Scientific Committees

The following lists the services performed by Walter Didimo in steering or program committees of international scientific conferences. For each service, the role is specified (Steering committee member, PC chair or PC member).

- **2026.** IEEE Pacific Visualization Symposium, PacificVis 2026 (**PC member**)
- **2025.** IEEE Pacific Visualization Symposium, PacificVis 2025 (**PC member**)
- **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)**

- **2018-2021.** 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**. International Conference on Information, Intelligence, Systems and Applications (IISA 2015), Special Session GNV: Graph and Network Visualization (**PC member**)
- **2015**. 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) (**PC member**)
- **2014**. 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

The following lists the services performed by Walter Didimo in organizing committees of international conferences and workshops. For each service, the role is specified (Organizing chair or Organizing member).

- **2006-2026 [19 editions].** BWGD - Bertinoro Workshop on Graph Drawing, CeUB - Bertinoro ITALY (annual international scientific workshop sponsored by BiCi - Bertinoro international Center for informatics) (Organizing co-chair).

- **2026. WALCOM -** 20th International Conference and Workshops on Algorithms and Computation (**Organizing committee member**).

- **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).

Participation as Speaker at Conferences and Meetings

The following lists Walter Didimo's main participations as a speaker at international scientific conferences and meetings.

Invited Speaker

- **2024.** Invited speaker at the 40th European Workshop on Computational Geometry – EuroCG 2024 – Ioannina, Grecia, 13-15 March 2024.
- **2022.** Invited speaker at the Workshop "Constrained Graph Layouts" - STOC'22 (54th Annual ACM Symposium on Theory of Computing).
- **2019.** Keynote speaker at the PhD School on "Graph Drawing and Network Visualization" at Charles University di Praga, 16-17 September 2019.
- **2009.** Tutorial at the international conference IEEE PacificVis 2009, at Peking University (Cina). Title: "Graph Visualization".
- **2005.** Invited speaker at the congresso "International Conference on Current Trends in Theory and Practice of Computer Science, SOFSEM 2005". Title: "Spine and Radial Drawings of Graphs".
- **2005.** Invited seminar at the International Conference and Research Center for Computer Science, Schloss Dagstuhl - Dagstuhl-Seminar 05191 "Graph Drawing".
- **2005.** Invited seminar at the CNR di Pisa. Title: "A Topology-driven Approach to the Design of Web Meta-search Clustering Engines".

Other Presentations at International Conferences

- **1997-present.** Presentation, as speaker, of scientific papers at various international congresses and conferences, including: WADS'97, GD'98, GD'99, WADS'01, GD'03, CCCG'05, SOFSEM'05, GD'07, GD'09, WADS'09, EuroCG'11, GD'15, GD'16, GD'17, GD'18, GD'19, ISAAC'23, GD'24, GD'25.

SCIENTIFIC OUTPUT

Walter Didimo's scientific output as of the date of this CV consists of 224 publications, organized as follows:

- 94 articles in international scientific journals;

- 4 edited proceedings and special issues;
- 117 papers in international conference proceedings;
- 9 publications as books or book chapters.

Articles in International Scientific Journals (international journals)

[JOUR-94] Sara Di Bartolomeo, Johann Sebastian Schicho, Aurora Traversini, Simon Dominik Fink, Walter Didimo, Fabrizio Montecchiani: "Do Graph Drawing Aesthetics Matter for AI? A Replication of Foundational Studies in Graph Readability", Computer Graphics Forum, doi: DOI: 10.1111/cgf.70436, 2026 [quartile: Q1]

[JOUR-93] Carla Binucci, Annika Bonerath, Walter Didimo, Henry Förster, Seok-Hee Hong, Maria Eleni Pavlidi, Alessandra Tappini: "CLusterix: A Hybrid Visualization Model for Hierarchically Clustered Networks", Computer Graphics Forum, doi: DOI: 10.1111/cgf.70469, 2026 [quartile: Q1]

[JOUR-92] Walter Didimo, Fabrizio Montecchiani, Tommaso Piselli: "GD4LLM: How Layout Quality and Prompting Influence LLM Understanding of Graph Drawings", IEEE Transactions on Visualization and Computer Graphics, doi: 10.1109/TVCG.2026.3677884, 2026 [quartile: Q1]

[JOUR-91] Walter Didimo, Siddharth Gupta, Philipp Kindermann, Giuseppe Liotta, Alexander Wolff, Meirav Zehavi: "Parameterized Approaches to Orthogonal Compaction", Journal of Computer and System Sciences, 155: 103692, 2026 [quartile: Q2]

[JOUR-90] Walter Didimo, Michael Kaufmann, Giuseppe Liotta, Giacomo Ortali, Maurizio Patrignani: "Rectilinear-Upward Planarity Testing of Digraphs", Journal of Computer and System Sciences, 158: 103775, 2026 [quartile: Q2]

[JOUR-89] Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Henk Meijer, Fabrizio Montecchiani, Stephen K. Wismath: "Bounds on the Edge-length Ratio of 2-Outerplanar Graphs", Computational Geometry: Theory and Applications, 129: 102192, 2025 [quartile: Q3]

[JOUR-88] Michael A. Bekos, Giuseppe Di Battista, Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani: "Drawing Graphs with k Vertices per Face: Complexity and Algorithms", Theoretical Computer Science, 1058: 115576, 2025 [quartile: Q2]

[JOUR-87] Carla Binucci, Giuseppe Di Battista, Walter Didimo, Vida Dujmovic, Seok-Hee Hong, Michael Kaufmann, Giuseppe Liotta, Pat Morin, Alessandra Tappini: "Graphs Drawn with Some Vertices per Face: Density and Relationships", IEEE Access 12: 68828-68846. 2024 [quartile: Q1]

[JOUR-86] Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani, Giacomo Ortali: "On the Parameterized Complexity of Bend-Minimum Orthogonal Planarity", Algorithmica 86 (10): 3231-3251. 2024 [quartile: Q1]

[JOUR-85] Jacopo Cancellieri, Walter Didimo, Andrea Fronzetti Colladon, Fabrizio Montecchiani, Roberto Vestrelli: "Brand Network Booster: A new system for improving brand connectivty", Computers and Industrial Engineering 194: 110389, 2024 [quartile: Q1]

[JOUR-84] Carla Binucci, Aaron Büngener, Giuseppe Di Battista, Walter Didimo, Vida Dujmovic, Seok-Hee Hong, Michael Kaufmann, Giuseppe Liotta, Pat Morin, Alessandra Tappini: "Min-k-planar Drawing of Graphs", Journal of Graph Algorithms and Applications 28 (2): 1-35, 2024 [quartile: Q2]

[JOUR-83] Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani, Alessandra Tappini, "Comparative Study and Evaluation of Hybrid Visualizations of Graphs", IEEE Transactions on Visualization and Computer Graphics 30 (7): 3503-3515, 2024 [quartile: Q1]

[JOUR-82] Carla Binucci, Giordano Da Lozzo, Emilio Di Giacomo, Walter Didimo, Tamara Mchedlidze, Maurizio Patrignani: Upward Book Embeddability of st-Graphs: Complexity and Algorithms. Algorithmica 85(12): 3521-3571 (2023) [quartile: Q1]

[JOUR-81] Carla Binucci, Walter Didimo, Maurizio Patrignani: st-Orientations with Few Transitive Edges. Journal of Graph Algorithms and Applications 27(8): 625-650 (2023) [quartile: Q2]

[JOUR-80] Giuseppe Di Battista, Walter Didimo, Luca Grilli, Fabrizio Grosso, Giacomo Ortali, Maurizio Patrignani, Alessandra Tappini: Small Point-Sets Supporting Graph Stories. Journal of Graph Algorithms and Applications 27(8): 651-677 (2023) [quartile: Q2]

[JOUR-79] Walter Didimo, Michael Kaufmann, Giuseppe Liotta, Giacomo Ortali: Rectilinear Planarity of Partial 2-Trees. Journal of Graph Algorithms and Applications 27(8): 679-719 (2023) [quartile: Q2]

[JOUR-78] Walter Didimo, Michael Kaufmann, Giuseppe Liotta, Giacomo Ortali, "Computing Bend-Minimum Orthogonal Drawings of Plane Series–Parallel Graphs in Linear Time", Algorithmica, 85 (9): 2605-2666, 2023 [quartile: Q1]

[JOUR-77] Carla Binucci, Walter Didimo, Fabrizio Montecchiani, "1-Planarity testing and embedding: An experimental study", Computational Geometry: Theory and Applications, 108 101900, 2023 [quartile: Q2]

[JOUR-76] Luca Consalvi, Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani: BrowVis: Visualizing Large Graphs in the Browser. IEEE Access, 10: 115776-115786, 2022. [quartile: Q1]

[JOUR-75] Alessio Arleo, Walter Didimo, Giuseppe Liotta, Silvia Miksch, Fabrizio Montecchiani, "Influence Maximization with Visual Analytics", IEEE Transactions on Visualization and Computer Graphics, 28(10): 3428-3440, 2022. [quartile: Q1]

[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, 2022. [quartile: Q1]

[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. [quartile: Q2]

[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. [quartile: Q1]

[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. [quartile: Q1]

[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. [quartile: Q2]

[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. [quartile: Q1]

[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. [quartile: Q1]

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[JOUR-64] Walter Didimo, Giuseppe Liotta, Maurizio Patrignani, "HV-planarity: Algorithms and complexity". Journal of Computer and System Sciences, 99: 72-90, 2019. [quartile: Q1]

[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. [quartile: Q2]

[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. [quartile: Q1]

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[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. [quartile: Q1]

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[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. [quartile: Q1]

[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. [quartile: Q1]

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[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. [quartile: Q1]

[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. [quartile: Q1]

[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. [quartile: Q2]

[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. [quartile: Q1]

[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): 313-340, 2017. [quartile: Q1]

[JOUR-50] Alessio Arleo, Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani, "Large graph visualizations using a distributed computing platform", Information Sciences, 381: 124-141, 2017. [quartile: Q1]

[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, 636: 1-16, 2016. [quartile: Q1]

[JOUR-48] Carla Binucci, Walter Didimo, "Computing Quasi-Upward Planar Drawings of Mixed Graphs", Computer Journal, 59 (1): 133-150, 2016. [quartile: Q2]

[JOUR-47] Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Henk Meijer, Stephen Wismath, "Planar and Quasi-planar Simultaneous Geometric Embedding", Computer Journal, 58(11): 3126-3140, 2015. [quartile: Q2]

[JOUR-46] Patrizio Angelini, 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, 50: 34-48, 2015. [quartile: Q2]

[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, 589: 76-86, 2015. [quartile: Q1]

[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, 58(5): 1085-1098, 2015. [quartile: Q2]

[JOUR-43] Patrizio Angelini, Walter Didimo, Stephen Kobourov, Tamara Mchedlidze, Vincenzo Roselli, Antonios Symvonis, Stephen Wismath, "Monotone Drawings of Graphs with Fixed Embedding", Algorithmica, 71 (2): 233-257, 2015. [quartile: Q1]

[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, 25: 533-543, 2014. [quartile: Q1]

[JOUR-41] Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani, "Network Visualization for Financial Crime Detection", Journal of Visual Languages and Computing, 25: 433-451, 2014. [quartile: Q1]

[JOUR-40] Carla Binucci, Walter Didimo, Maurizio Patrignani, "Upward and quasi-upward planarity testing of embedded mixed graphs", Theoretical Computer Science, 526: 75-89, 2014. [quartile: Q1]

[JOUR-39] Walter Didimo and Fabrizio Montecchiani, "Fast Layout Computation of Clustered Networks: Algorithmic Advances and Experimental Analysis", Information Sciences, 260: 185-199, 2014. [quartile: Q1]

[JOUR-38] Emilio Di Giacomo, Walter Didimo, Peter Eades, Giuseppe Liotta, "2-Layer Right Angle Crossing Drawings", Algorithmica, 68(4): 954-997, 2014. [quartile: Q1]

[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): 909-916, 2013. [quartile: Q1]

[JOUR-36] Walter Didimo, "Density of 1-planar Graph Drawings", Information Processing Letters, 113(7): 236-240, 2013. [quartile: Q2]

[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): 630-635, 2012. [quartile: Q2]

[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): 418-422, 2012. [quartile: Q2]

[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): 132-139, 2012. [quartile: Q2]

[JOUR-32] 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): 491-503, 2012. [quartile: Q1]

[JOUR-31] Walter Didimo, Peter Eades, Giuseppe Liotta, "Drawing Graphs with Right Angle Crossings", Theoretical Computer Science, 412(39): 5156-5166, 2011. [quartile: Q1]

[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): 229-251, 2011. [quartile: Q2]

[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): 587-629, 2011. [quartile: Q2]

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[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): 53-78, 2011. [quartile: Q2]

[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): 565-575, 2011. [quartile: Q3]

[JOUR-25] Walter Didimo, Peter Eades, and Giuseppe Liotta. "A Characterization of Complete Bipartite RAC Graphs", Information Processing Letters, 110(16): 687-691, 2010. [quartile: Q2]

[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): 577-600, 2010. [quartile: Q3]

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[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): 219-232, 2010. [quartile: Q1]

[JOUR-21] Walter Didimo, Francesco Giordano, Giuseppe Liotta, "Upward Spirality and Upward Planarity Testing", SIAM J. On Discrete Mathematics, 23(4), 1842-1899, 2009. [quartile: Q1]

[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), 664-676, 2009. [quartile: Q1]

[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): 423-445, 2009. [quartile: Q2]

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[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): 29-49, 2008. [quartile: Q1]

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[JOUR-13] Walter Didimo, "Upward Planar Drawings and Switch-regularity Heuristics", Journal of Graph Algorithms and Applications, 10(2): 259-285, 2006. [quartile: Q1]

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[JOUR-11] Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Henk Mejier, "Computing Radial Drawings on the Minimum Number of Circles", Journal of Graph Algorithms and Applications, 9(3): 365-389, 2006. [quartile: Q1]

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[JOUR-6] Carla Binucci, Walter Didimo, "A Software System for Computing Labeled Orthogonal Drawings of Graphs", Electr. Notes Theor. Comput. Sci., 72(2), 2002. [quartile: Q2]

[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): 281-311, 2002.

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Books and Book Chapters (books and book chapters)

[BOOK-9] Walter Didimo, "Right Angle Crossing Drawings of Graphs", chapther in book "Beyond Planar Graphs", Springer: 149-169, 2020.

[BOOK-8] Walter Didimo, "Upward Graph Drawing", chapter in book: "Encyclopedia of Algorithms", Springer: 2308-2312, 2016.

[BOOK-7] Emilio Di Giacomo, Walter Didimo, book "Fundamentals of Computer Science in Java", Maggioli Ed., 2014.

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

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[BOOK-2] Giuseppe Di Battista, Walter Didimo, Maurizio Patrignani, Maurizio Pizzonia, "DBdraw - Automatic Layout of Relational Database Schemas", chapter in book "Graph Drawing Software" (M. Juenger and P. Mutzel Ed.), Springer: 237-256, 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" (M. Juenger and P. Mutzel Ed.), Springer: 341-364, 2003.

APPOINTMENTS AND SERVICES IN UNIVERSITIES AND OTHER PUBLIC BODIES

Main Appointments and Services

The following lists the main institutional appointments and services performed by Walter Didimo in addition to those already mentioned.

- 2025. Chair of the Examining Committee for the State Examinations qualifying for the engineering profession, at the Department of Engineering of the University of Perugia – July and November sessions.

- 2024-present. Chair of the Degree Program Council in Information Engineering of the University of Perugia.

- 2022-2025. Member of the OpenBadge committee for the University of Perugia, as representative for the Technical-Scientific Area.

- 2019-2022. Director of the CINI Research Unit at the University of Perugia.

- 2015-present. Representative for teaching activities of the "Information" curriculum of the Ph.D. program in Industrial and Information Engineering at the University of Perugia.

- 2014-present. Member of the Ph.D. Board in Industrial and Information Engineering at the University of Perugia.

- 2013-2019. Quality assurance coordinator of the Master's degree program in Computer and Automation Engineering of the University of Perugia and teaching quality representative for the Department's information area since 2014.

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

- 2006-2009. Representative of associate professors on the Scientific-Disciplinary Committee of Area 09 - "Industrial and Information Engineering" for the University of Perugia.

- 2006-2008. Head of the University Competence Center for the EUCIP certification in computer science at the University of Perugia.

- 2009-2013. Member of the Digital Services Committee for the Faculty of Engineering of the University of Perugia.

- 2006-2016. Member of the Funds Committee for Degree Programs of the area Informazione of the Faculty of Engineering of the University of Perugia.

- 2004-2013. Member of the Committee for the Laboratorio in Computer Science of the Faculty of Engineering of the University of Perugia.

- 2003-2005. Member of a Faculty Committee per i Degree programs in Management Engineering of the University of Perugia (based in Terni).

Services on Selection and Competition Committees

- 2024. Member of a selection committee for a full professor position at the Department of Engineering of the University of Campania Luigi Vanvitelli, competition sector 09/H1.

- 2022. Member of a committee selection for a type-B researcher position at the Department of Information Engineering of the University degli Studi di Padova, competition sector 09/H1.

- 2020. Member of a committee selection for a type-A researcher position at the Department of Engineering of Roma Tre University, competition sector 09/H1.

- 2019. Member of a selection committee for a type-A researcher position at the Department of Engineering of the University of Campania "Luigi Vanvitelli", competition sector 09/H1.

- 2017, 2018. Expert member of a selection committee per Officers of the Army Corps of Engineers.

- 2014. Member of a committee examining for the call of the Umbria Region: "Selection for awarding a fixed-term management appointment for the information-society policy and regional information-system service at the area of human-resource organization, technological innovation and local authorities".

- 2010. Member of the committee for the Ph.D. competition in Information Engineering of the University of Perugia, 26th cycle.

- 2008. Member of a committee for the confirmation of associate professors in permanent positions.

- 2008. Member of the committee for the Ph.D. competition in Information Engineering of the University of Perugia, 24th cycle.

- 2007. Member of a committee selection for the award of a research grant in the sector ING-INF/05 at Faculty of Engineering of the University of Perugia.

- 2006. Member of a committee selection for the award of a research grant in the sector ING-INF/05 at Faculty of Engineering of the University of Perugia.

- 2004. Member of a committee selection for the award of 8 category-C technical-administrative staff positions at Engineering site in Terni of the University of Perugia.

- 2004. Member of a evaluation committee for the award of occasional collaboration contracts, aimed at examination support activities, within the Faculty of Engineering of the University of Perugia.

- 2004. Member of an evaluation committee for the award of two postgraduate scholarships aimed at analysis and development activities within the European Project "Health for All in Latin America", @LIS Programme.

- 2003. Member of two selection committees for the award of a research grant within thel'Area 11: Information Engineering Sciences and Computer Science, for the Faculty of Engineering of the University of Perugia.

- 2003-2004. Member of examining committees for the signing of a contract per examination support activities, within the Faculty of Engineering of the University of Perugia.

- **2002.** Member of a selection committee for the admission examination to the first year of the Postgraduate School for Secondary-School Teachers (SSIS), within the Faculty of Engineering of the University of Perugia.

LANGUAGE SKILLS

MOTHER TONGUE	Italian
OTHER LANGUAGES	English
READING SKILLS	Excellent
WRITING SKILLS	Excellent
ORAL EXPRESSION SKILLS	Excellent