

*Curriculum Vitae*  
*of*

**FABRIZIO MONTECCHIANI**

(June 2020)

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## SHORT BIO

Fabrizio Montecchiani received his PhD in Information Engineering at the University of Perugia in 2014, under the supervision of Prof. Walter Didimo and Prof. Giuseppe Liotta. He is currently an Assistant professor (with tenure track - RTDb) at the University of Perugia, Engineering Department. In 2018, he took the Italian national scientific habilitation for the role of Associate Professor of Information Engineering. Since 2019, he is the coordinator of the Large-scale Data Analysis & Visualization Lab<sup>1</sup>, the local node at the University of Perugia of the national CINI Big Data Laboratory.

During his PhD, he spent three weeks (November 2012) as a visiting PhD student at the Brain Research Center of the National Tsing Hua University of Taiwan, working under the supervision of Prof. Ann-Shyn Chiang. He then spent three months (January to April 2013) as a visiting PhD student at the University of Tübingen in Germany, working under the supervision of Prof. Michael Kaufmann. As a post-doctoral student, he spent two months (September to October 2015) as a visiting Postdoc fellow at the University of Waterloo in Canada, under the supervision of Prof. Therese Biedl.

His main research interests lie within the fields of graph algorithms and graph drawing, computational geometry, information visualization and visual analytics for Big Data, algorithm engineering and system development. On the above topics he wrote several research papers, he collaborated with many international researchers, he participated to numerous grants, and he developed software systems that have been commercialized by academic spin-off companies.

He has teaching experience at the undergraduate, graduate and professional level, as well as in supervising students.

From 2011 to 2014, he also collaborated as a software engineer with the academic spin-off Vis4 Srl, an ICT company providing advanced solutions for the visual analysis of complex data sets. In 2017, he co-founded the academic spin-off CONTACTTI yi-zhong-yi Srl, a company made up by engineers and linguists that offers advanced ICT solutions and smart technologies to promote and develop tourism in Italy, with a particular focus on Chinese tourists.

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<sup>1</sup><https://bigdata.unipg.it>

## CONTACTS

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**WWW:** <http://mozart.diei.unipg.it/montecchiani>

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## CURRENT POSITION

Since 2018, I am Assistant professor (with tenure track - RTDb) at the University of Perugia, Engineering Department (DI).

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## PREVIOUS POSITIONS

From 2014 to 2018, I have been a post-doc research fellow at the University of Perugia, Engineering Department (DI). From 2010 to 2014, I have been a PhD student in the same department.

## EDUCATION

- I received my PhD (European Doctorate Program) in Information Engineering at the University of Perugia in 2014.
    - Thesis title: “Crossing Complexity in Graph Drawing”
    - Advisors: Prof. Walter Didimo, Prof. Giuseppe Liotta
    - Committee: Prof. Roberto Grossi, Prof. Michael Kaufmann, Prof. Giuseppe Liotta
  - I received my Master’s Degree (Laurea Specialistica) in Computer and Telecommunications Engineering at the University of Perugia in 2010. The thesis won the national prize “*Premi di Laurea Giorgio Santini 2010*” for the best thesis in Computer Engineering. The software system developed within the thesis activity has been further engineered by the academic spin-off Vis4, and in 2011 the software became a commercial product.
    - Thesis title: “Analysis, design and development of a software system for the visual analysis of financial crime networks”
    - Advisor: Prof. Walter Didimo
    - Final mark: 110/110 cum laude
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## AWARDS AND HONORS

- June 2016. Winner of the “2016 Algorithms Travel Award” sponsored by Algorithms, an international open access journal, which provides an advanced forum for studies related to algorithms and their applications, published quarterly online by MDPI.
  - February 2011. Winner of the national prize “*Premi di Laurea Giorgio Santini 2010*” for the best thesis in Computer Engineering.
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## RESEARCH EXPERIENCE ABROAD

**September - October 2015** Visiting Postdoc fellow at the David R. Cheriton School of Computer Science, University of Waterloo, Canada. During this period I collaborated with Prof. Therese Biedl and joined the Algorithms and Complexity group.

**January to April 2013** Visiting PhD student at the Wilhelm-Schickard-Institut für Informatik, University of Tübingen, Germany. During this period I joined the group led by Prof. Michael Kaufmann, whose activity is focused on the following research fields: Graph Drawing, Information Visualization, Computational Geometry, Algorithms and Complexity, Combinatorics Optimization.

**November 2012** Visiting PhD student at the Brain Research Center of the National Tsing Hua University of Taiwan. During this period I worked under the supervision of Prof. Ann-Shyn Chiang, on a project whose goal was the visual analysis of biological data.

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## RESEARCH INTERESTS

My research interests lie within the following fields.

- Graph algorithms and graph drawing.
- Computational geometry.
- Information visualization and visual analytics for Big Data.
- Algorithm engineering and system development for Big Data.

On the above topics I collaborated with several international researchers, I participated to numerous grants, and I developed software systems that have been commercialized by academic spin-off companies.

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## GRANTS

- *Principal Investigator* of the scientific project (8,000 EUR) “Modelli, algoritmi e sistemi per la visualizzazione di grafi e reti” funded by the “Ricerca di Base 2019” program of the Engineering Department - University of Perugia.
- Participant of the MIUR PRIN 2017 project (100,000 EUR) “AHeAD: efficient Algorithms for HArnessing networked Data”, prot. 00120174LF3T8.
- *Participant* of the scientific project “Analysis, design, and development of algorithms and interfaces for the visual analysis of data within the Knowledge

Discovery system PiattaformaPA and B2”. Contract (35,000 EUR) between the Department of Engineering of the University of Perugia and the company ETI3 Srl, within the regional program POR FESR Umbria 2014-2020.

- *Participant* of the scientific project “INFINITY - Models and algorithms for the visual representation of information on the driving styles of a big dataset of drivers”. Contract (30,000 EUR) between the Department of Engineering of the University of Perugia and the company Sistemica SpA, within the regional call, Innovative Actions, FESR 2007-2013.
  - *Participant* of the MIUR PRIN 2012 project (55,000 EUR), “AMANDA: Algorithmics for MAssive and Networked DAta”, prot. 2012C4E3KT 001. Website: <http://www.dia.uniroma3.it/~amanda/index.php>
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## EDITORSHIPS

- Guest Editor of the special issue on “Graph Drawing Beyond Planarity” of the Journal Of Graph Algorithms and Applications.

## PROGRAM COMMITTEES

- Program committee member of the 28<sup>th</sup> International Symposium on Graph Drawing & Network Visualization (GD 2020), Vancouver (Canada), September 15-18, 2020. Website: <https://gd2020.cs.ubc.ca/>
- Program committee member of the 25<sup>th</sup> International Symposium on Graph Drawing & Network Visualization (GD 2017), Boston (USA), September 25-27, 2017. Website: <https://gd2017.ccis.northeastern.edu/>
- Program committee member of the Graph and Network Visualization Special Session hosted by the 7<sup>th</sup> International Conference on Information, Intelligence, Systems and Applications (IISA 2016), Chalikidiki (Greece), July 13-15, 2016.

## ORGANIZING COMMITTEES

- Organizing committee co-chair of the 38<sup>th</sup> European Workshop on Computational Geometry (EuroCG 2022), together with Emilio Di Giacomo (UniPG). To be held in Perugia, in March 2022.

- Organizer of the Dagstuhl Seminar 21062 on “Parameterized Complexity in Graph Drawing”, together with Robert Ganian (TU Wien, AT), Martin Nöllenburg (TU Wien, AT) and Meirav Zehavi (Ben Gurion University – Beer Sheva, IL). To be held February 7 – 12 2021, Dagstuhl, Germany.
- Organizing committee member of the 28<sup>th</sup> European Workshop on Computational Geometry (EuroCG 2012), Assisi (Italy), March 19–21, 2012.

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## INVITED TALKS AND LECTURES

- Invited lecture at the Technische Universität Wien, Austria, 15 January 2019.
- Invited lecture at the Universität zu Köln, Germany, 20 November 2018.
- Invited lecture at the FernUniversität in Hagen, Germany, 3 July 2017.
- Invited talk at the NII Shonan Meeting Seminar 089 “Algorithmics for Beyond Planar Graphs”, Shonan Village Center, Japan, 27 Nov. – 1 Dec. 2016.
- Invited talk at the 3<sup>rd</sup> meeting of the ANR Project Embedded Graphs and their Oriented Structures (EGOS), Bordeaux, France, 5 – 7 Nov. 2014.

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## INT’NL CONFERENCES AND WORKSHOPS ATTENDED

The following is a list of attended conferences and workshops in the last five years. For each entry, the symbol \* indicates that I gave a talk.

- 2020: \*14<sup>th</sup> International Conference and Workshop on Algorithms and Computation (WALCOM 2020), Singapore (held online); NII Shonan Meeting Seminar 171 “Trends and Perspectives for Graph Drawing and Network Visualization”, Shonan Village Center, Japan.
- 2019: \*27<sup>th</sup> Int. Symposium on Graph Drawing & Network Visualization (GD 2019), Prague, Czech Republic; \*1<sup>st</sup> Italian Workshop on Parallel and High Performance Computing Technologies, Bologna, Italy; Workshop on Graph Drawing and Network Visualization 2019 (GNV 2019), Heiligkreuztal, Germany; Dagstuhl Seminar 19092 “Beyond-Planar Graphs: Combinatorics, Models and Algorithmics”, Schloss Dagstuhl, Germany; Bertinoro Workshop on Graph Drawing 2019 (BWGD 2019), Bertinoro, Italy.



- 2018: \*26<sup>th</sup> Int. Symposium on Graph Drawing & Network Visualization (GD 2018), Barcelona, Spain; Workshop on Graph Drawing and Network Visualization 2018 (GNV 2018), Heiligkreuztal, Germany; \*44<sup>th</sup> Int. Workshop on Graph Theoretic Concepts in Computer Science (WG 2018), Cottbus, Germany; Bertinoro Workshop on Graph Drawing 2018 (BWGD 2018), Bertinoro, Italy.
- 2017: \*25<sup>th</sup> Int. Symposium on Graph Drawing & Network Visualization (GD 2017), Boston, USA; Workshop on Graph Drawing and Network Visualization 2017 (GNV 2017), Heiligkreuztal, Germany; Bertinoro Workshop on Graph Drawing 2017 (BWGD 2017), Bertinoro, Italy.
- 2016: \*NII Shonan Meeting Seminar 089 “Algorithmics for Beyond Planar Graphs”, Shonan Village Center, Japan; Dagstuhl Seminar 16452 “Beyond-Planar Graphs: Algorithmics and Combinatorics”, Schloss Dagstuhl, Germany; \*24<sup>th</sup> Int. Symposium on Graph Drawing & Network Visualization (GD 2016), Athens, Greece; 19<sup>th</sup> Korean Workshop on Computational Geometry (KWCG 2016), Würzburg, Germany; \*32<sup>nd</sup> International Symposium on Computational Geometry (SoCG 2016), Boston, USA; \*32<sup>nd</sup> European Workshop on Computational Geometry (EuroCG 2016), Lugano, Switzerland; Bertinoro Workshop on Graph Drawing 2016 (BWGD 2016), Bertinoro, Italy.
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## SCIENTIFIC REVIEW ACTIVITY

**International journals (alphabetical order):** Algorithmica; Computer Graphics Forum; Computational Geometry: Theory and Applications; Decision Support Systems; Discrete Applied Mathematics; Discrete Mathematics, Discrete Mathematics and Theoretical Computer Science; Discussiones Mathematicae Graph Theory; Filomat; IEEE Access; Theoretical Computer Science; Journal of Computational Geometry; Journal of Graph Algorithms and Applications; Journal of Visual Languages and Computing.

**International conferences (alphabetical order):** EUROCG (2012, 2018, 2020); GD (2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020); ICALP (2014); ISAAC (2011, 2016, 2017); PACIFICVIS (2012, 2015, 2016, 2018, 2019, 2020); SEA (2018); SOCG (2017, 2020); SODA (2019); SWAT (2016, 2020); VISIGRAPP (2012); WALCOM (2015, 2018); WG (2019, 2020).

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## ACADEMIC AND PUBLIC SERVICE

**2020 – today** Member of the faculty board of the Ph.D. course in Industrial and Information Engineering at the University of Perugia.

**2019 – 2020** Member of the faculty board of the Ph.D. course in Ethics of Communication, Scientific Research and Innovation Technology at the University of Perugia.

**2019 – today** Director of the CINI Big Data Laboratory node at the University of Perugia<sup>2</sup>.

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## TEACHING EXPERIENCE

The following teaching activity took place at the Department of Engineering at the University of Perugia.

### Master degree

- Course **Information Visualization and Visual Analytics**  
Year: 2020/2021  
Degree: Master's Degree in Computer and Robotics Engineering (Laurea Magistrale in Ingegneria Informatica e Robotica)  
Role: Co-Teacher (9CFU, 12 of 72 hours).
- Course **Computation Models and Advanced Algorithms**  
Year: 2020/2021  
Degree: Master's Degree in Computer and Robotics Engineering (Laurea Magistrale in Ingegneria Informatica e Robotica)  
Role: Co-Teacher (9CFU, 12 of 72 hours).
- Course **Software Engineering**  
Year: 2019/2020 – present  
Degree: Master's Degree in Computer and Robotics Engineering (Laurea Magistrale in Ingegneria Informatica e Robotica)  
Role: Teacher (6CFU, 48 hours).
- Course **Big Data Management**  
Year: 2017/2018 – present  
Degree: Master's Degree in Computer and Robotics Engineering (Laurea

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<sup>2</sup><https://www.conorzio-cini.it/index.php/it/labbigdata-home/>

Magistrale in Ingegneria Informatica e Robotica)  
Role: Teacher (6CFU, 48 hours).

- Course: **Lab of Information Visualization**  
Year: 2011/2012 – 2019/2020  
Degree: Master’s Degree in Computer and Robotics Engineering (Laurea Magistrale in Ingegneria Informatica e Robotica)  
Role: Lab Teacher (12 hours).

### **Bachelor degree**

- Course: **Analysis II**  
Year: 2011–2012  
Degree: Bachelor’s Degree (Laurea Triennale)  
Role: Tutor.
- Course: **Geometry**  
Year: 2011–2012  
Degree: Bachelor’s Degree (Laurea Triennale)  
Role: Tutor.

### **Post-graduate**

- Course: **Models and Technologies for Big Data**  
Year: 2016, 2017  
Degree: Doctorate Course in Industrial and Information Engineering (for PhD candidates only)  
Role: Teacher (20 hours).
- Course **Visual analytics - Laboratory**  
Year: 2017  
Degree: Post-graduate Master (Master di II° livello) in “Data Science”<sup>3</sup>  
Role: Teacher (12 hours).
- Course **ICT for Smart Cities**  
Year: 2015  
Degree: Post-graduate Master (Master di II° livello) in “Designing Smart Cities”<sup>4</sup>  
Role: Invited Lecturer.

I tutored and co-tutored several students during their Bachelor or Master thesis. Among them (in alphabetic order): Marco Aquilanti, Alessio Arleo, Betim Beja,

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<sup>3</sup><http://masterds.unipg.it/>

<sup>4</sup><http://www.smartcities.unipg.it/>

Paolo Bicchielli, Stefano Capotosti, Felice De Luca, Maria Elisa Ganci, Francesco Giacchè, Paride Paffarini, Daniele Portarena, Serafino Saputelli, Andrea Stronati, Alessandra Tappini.

The following teaching activity took place at the ITS Umbria Academy<sup>5</sup>.

- Course: **Big Data Management and Analytics**  
Year: 2020  
Role: Teacher (50 hours).
- Course: **Big Data Management and Analytics**  
Year: 2019  
Role: Teacher (25 hours).

The following teaching activity took place at the ECIPA Umbria<sup>6</sup>, an association that organizes training courses at national and European levels.

- Course: **Development of Software Systems**  
Year: 2018  
Role: Teacher (58 hours).
- Course: **Big Data Management**  
Year: 2017  
Role: Teacher (62 hours).

The following teaching activity took place at the Tiber Umbria Comett Education Programme<sup>7</sup>, an association between Universities and Enterprises created in 1992 under a former Comett project. The main activity of TUCEP is the organization and management of training courses at national and European levels.

- Course: **Development of Software Systems**  
Year: 2015  
Role: Teacher.

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<sup>5</sup><http://www.itsumbria.it>

<sup>6</sup><http://www.ecipaumbria.it/>

<sup>7</sup><http://www.tucep.org/>

## PROFESSIONAL EXPERIENCE & TECHNOLOGY TRANSFER

In December 2017, I co-founded CONTATTI yi-zhong-yi Srl<sup>8</sup>, a spin-off company of the University of Perugia. The company is made up by engineers and linguists and it is aimed at offering advanced ICT solutions and smart technologies to promote and develop tourism in Italy. In particular, the company has Chinese tourists as main target for its solutions and services.

From 2011 to 2014, I collaborated as a Software Engineer with the academic spin-off Vis4 Srl<sup>9</sup>, an IT company providing advanced solutions for the visual analysis of complex data sets. Vis4, founded in 2009, established relevant contracts and collaborations with national and international companies and institutions, like the Financial Intelligence Agency (AIF) of the San Marino Republic, and Fabbrica, the advertisement company of the Benetton group. Vis4 is 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 January 2014 I have been appointed as administrator of the company, and I left this position in December 2014. In November 2014, all the academic members of Vis4 have sold their shares to private entrepreneurs<sup>10</sup>.

In 2013 I collaborated as consultant with the Umbria Region for the assessment of the regional community network<sup>11</sup>.

During my studies I had internships with Angelantoni Industrie Spa, Sintesi Srl, and Jobnet Srl.

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<sup>8</sup><https://www.contattizyzy.it/>

<sup>9</sup><http://www.vis4you.com> - This website may no longer be available.

<sup>10</sup>The company has changed its name, see <http://www.esapio.com>

<sup>11</sup><http://www.sir.umbria.it/cnumbria>

## PUBLICATIONS

### [SPE] **Journal Special Issues (Editor)**

[SPE-01] M. A. Bekos, M. Kaufmann, F. Montecchiani. “Guest Editors’ Foreword and Overview”. Special Issue on Graph Drawing Beyond Planarity in *Journal of Graph Algorithms and Applications*, 22(1): 1–10 (2018).

### [JOUR] **International Journals**

[JOUR-41] P. Angelini, M. A. Bekos, F. J. Brandenburg, G. Da Lozzo, G. Di Battista, W. Didimo, M. Hoffmann, G. Liotta, F. Montecchiani, I. Rutter, C. Tóth, “Simple  $k$ -planar graphs are simple  $(k + 1)$ -quasi planar”. *Journal of Combinatorial Theory, Series B*, 142: 1–35 (2020).

[JOUR-40] E. Di Giacomo, G. Liotta, F. Montecchiani, “1-bend Upward Planar Slope Number of SP-digraphs”. *Computational Geometry: Theory and Applications*, 90: 101628 (2020).

[JOUR-39] W. Didimo, L. Grilli, G. Liotta, L. Menconi, F. Montecchiani, D. Pagliuca, “Combining Network Visualization and Data Mining for Tax Risk Assessment”. *IEEE Access*, 8: 16073–16086 (2020).

[JOUR-38] E. Di Giacomo, P. Eades, G. Liotta, H. Meijer, F. Montecchiani, “Polyline Drawings with Topological Constraints”. *Theoretical Computer Science*, 809: 250–264 (2020).

[JOUR-37] M. Bekos, H. Förster, M. Gronemann, T. Mchedlidze, F. Montecchiani, C. Raftopoulou, T. Ueckerdt, “Planar Graphs of Bounded Degree have Bounded Queue Number”. *SIAM Journal on Computing*, 48(5), 1487–1502 (2019).

[JOUR-36] W. Didimo, L. Grilli, G. Liotta, F. Montecchiani and D. Pagliuca. “Visual querying and analysis of temporal fiscal networks”. *Information Sciences*, 505: 406–421 (2019).

[JOUR-35] P. Angelini, M. A. Bekos, M. Kaufmann and F. Montecchiani. “On 3D visibility representations of graphs with few crossings per edge”. *Theoretical Computer Science*, 784: 11–20 (2019).

[JOUR-34] P. Angelini, M. A. Bekos, G. Liotta and F. Montecchiani. “Universal Slope Sets for 1-Bend Planar Drawings”. *Algorithmica*, 81(6): 2527–2556 (2019)

[JOUR-33] A. Arleo, W. Didimo, G. Liotta and F. Montecchiani. “A Distributed Multilevel Force-directed Algorithm”. *IEEE Transactions on Parallel and Distributed Systems*, 30(4): 754–765 (2019).

- [JOUR-32] W. Didimo, G. Liotta and F. Montecchiani. “A Survey on Graph Drawing Beyond Planarity”. *ACM Computing Surveys*, 52(1): 4:1–4:37 (2019).
- [JOUR-31] T. Biedl, T. M. Chan, S. Lee, S. Mehrabi, F. Montecchiani and H. Vosoughpour. “Guarding Orthogonal Art Galleries with Sliding  $k$ -Transmitters: Hardness and Approximation”. *Algorithmica*, 81(1): 69–97 (2019).
- [JOUR-30] M. Bekos, E. Di Giacomo, W. Didimo, G. Liotta, F. Montecchiani, C. Raftopoulou, “Edge Partitions of Optimal 2-plane and 3-plane Graphs”. *Discrete Mathematics*, 342: 1038–1047 (2019).
- [JOUR-29] S. W. Bae, J.-F. Baffier, J. Chun, P. Eades, K. Eickmeyer, L. Grilli, S.-H. Hong, M. Korman, F. Montecchiani, I. Rutter, C. D. Tóth, “Gap-planar Graphs”. *Theoretical Computer Science*, 745: 36–52 (2018).
- [JOUR-28] T. Biedl, , G. Liotta, F. Montecchiani. “Embedding-Preserving Rectangle Visibility Representations of Nonplanar Graphs” *Discrete & Computational Geometry*, 60(2): 345–380 (2018).
- [JOUR-27] A. Arleo, W. Didimo, G. Liotta, F. Montecchiani. “Profiling distributed graph processing systems through visual analytics”. *Future Generation Computer Systems*, 87: 43–57 (2018).
- [JOUR-26] E. Di Giacomo, W. Didimo, W. S. Evans, G. Liotta, H. Meijer, F. Montecchiani, S. K. Wismath. “Ortho-polygon Visibility Representations of Embedded Graphs” *Algorithmica*, 80(8): 2345–2383 (2018).
- [JOUR-25] W. Didimo, L. Giamminonni, G. Liotta, F. Montecchiani and D. Pagliuca. “A visual analytics system to support tax evasion discovery”. *Decision Support Systems*, 110: 71–83 (2018).
- [JOUR-24] A. Arleo, C. Binucci, E. Di Giacomo, W. S. Evans, L. Grilli, G. Liotta, H. Meijer, F. Montecchiani, S. Whitesides, S. K. Wismath, “Visibility Representations of Boxes in 2.5 Dimensions” *Computational Geometry*, 72: 19–33 (2018).
- [JOUR-23] W. Didimo, E. M. Kornaropoulos, F. Montecchiani, I. G. Tollis, “A Visualization Framework and User Studies for Overloaded Orthogonal Drawings” *Computer Graphics Forum*, 37(1): 288–300 (2018).
- [JOUR-22] E. Di Giacomo, G. Liotta, F. Montecchiani “Drawing subcubic planar graphs with four slopes and optimal angular resolution” *Theoretical Computer Science*, 714: 51–73 (2018).

- [JOUR-21] E. Di Giacomo, W. Didimo, W. S. Evans, G. Liotta, H. Meijer, F. Montecchiani, S. K. Wismath “New Results on Edge Partitions of 1-plane Graphs” *Theoretical Computer Science*, 713: 78–84 (2018).
- [JOUR-20] T. Bruckdorfer, S. Cornelsen, C. Gutwenger, M. Kaufmann, F. Montecchiani, M. Nöllenburg, A. Wolff, “Progress on Partial Edge Drawings” *Journal of Graph Algorithms and Applications*, 21(4): 757-786 (2017).
- [JOUR-19] S. G. Kobourov, G. Liotta, F. Montecchiani. “An annotated bibliography on 1-planarity” *Computer Science Review*, 25: 49–67 (2017).
- [JOUR-18] M. Bekos, W. Didimo, G. Liotta, S. Mehrabi, F. Montecchiani. “On RAC Drawings of 1-Planar Graphs” *Theoretical Computer Science*, 689: 48–57 (2017).
- [JOUR-17] C. Binucci, F. De Luca, E. Di Giacomo, G. Liotta, F. Montecchiani. “Designing the Content Analyzer of a Travel Recommender System” *Expert Systems with Applications*, 87: 199–208 (2017).
- [JOUR-16] P. Angelini, M. A. Bekos, F. De Luca, W. Didimo, M. Kaufmann, S. Kobourov, F. Montecchiani, C. N. Raftopoulou, V. Roselli, A. Symvonis. “Vertex-Coloring with Defects”. *Journal of Graph Algorithms and Applications (Special Issue on Selected Papers from the 10<sup>th</sup> International Conference and Workshops on Algorithms and Computation , WALCOM 2016)*, 21(3): 313-340 (2017).
- [JOUR-15] E. Di Giacomo, W. Didimo, G. Liotta and F. Montecchiani. “Areathickness Trade-offs for Straight-line Drawings of Planar Graphs”. *The Computer Journal*, 60(1): 135–142 (2017).
- [JOUR-14] C. Binucci, M. Chimani, W. Didimo, M. Gronemann, K. Klein, J. Kratochvíl, F. Montecchiani and I.G. Tollis, “2-Layer Fan-planarity: From Caterpillar to Stegosaurus”. *Journal of Graph Algorithms and Applications (Special Issue on Selected Papers from the 23<sup>st</sup> International Symposium on Graph Drawing, GD 2015)*, 21(1): 81-102 (2017).
- [JOUR-13] W. J. Lenhart, G. Liotta and F. Montecchiani. “On Partitioning the Edges of 1-Plane Graphs”. *Theoretical Computer Science*, 662: 59–65 (2017).
- [JOUR-12] A. Arleo, W. Didimo, G. Liotta and F. Montecchiani. “Large Graph Visualizations Using a Distributed Computing Platform”. *Information Sciences*, 381: 124-141 (2017).
- [JOUR-11] W. S. Evans, G. Liotta and F. Montecchiani. “Simultaneous Visibility Representations of Plane *st*-graphs Using L-shapes”. *Theoretical Computer Science*, 645: 100–111 (2016).



- [JOUR-10] F. J. Brandenburg, W. Didimo, W. S. Evans, P. Kindermann, G. Liotta and F. Montecchiani, “Recognizing and Drawing IC-planar Graphs”. *Theoretical Computer Science*, 636: 1–16 (2016).
- [JOUR-09] G. Liotta, F. Montecchiani, “L-Visibility Drawings of IC-planar Graphs”. *Information Processing Letters*, 116(3): 217-222 (2016).
- [JOUR-08] E. Di Giacomo, G. Liotta, F. Montecchiani, “Drawing Outer 1-planar graphs with few slopes”. *Journal of Graph Algorithms and Applications (Special Issue on Selected Papers from the 22<sup>st</sup> International Symposium on Graph Drawing, GD 2014)*, 19(2): 707-741 (2015).
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