

*Curriculum Vitae of*

***EMILIO DI GIACOMO***

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Emilio Di Giacomo received the Laurea degree in Electronic Engineering from the University of Rome “La Sapienza” in 2000 and the PhD degree in Information Engineering from the University of Perugia in 2003. From 2005 to 2015 he is an assistant professor of computer science at the Department of Engineering of the University of Perugia. In 2015 he becomes associate professor at the same department.

His research interests include Graph Drawing, Computational Geometry, Information Visualization, and Algorithm Engineering. He collected more than 130 international publications in the above areas. He also wrote a textbook for the course of Fondamenti di Informatica (Fundamentals of Computer Science). He served in the scientific and organizing committees of several international conferences including the International Symposium on Graph Drawing, the IEEE Pacific Visualization Symposium, and the ACM Symposium on Computational Geometry. Since 2021 he is a member of the Steering Committee of the International Symposium on Graph Drawing and Network Visualization. In 2015 he served as PC co-chair of 23<sup>rd</sup> International Symposium on Graph Drawing and Network Visualization and in 2022 as PC co-chair of the 38<sup>th</sup> European Workshop on Computational Geometry. Since 2023 he is co-Editor in chief of the Journal of Graph Algorithms and Applications.

He have been also involved in several national and international research projects, including projects supported by the Italian Ministry of Education and by the European Community. He is also a co-funded of the Vis4 s.r.l. company, started as a spin-off of the University of Perugia.

Emilio’s career milestones:

- 2000:** Laurea Degree in Electronic Engineering (Univ. of Rome “La Sapienza”)
- 2003:** PhD in Information Engineering (University of Perugia)
- 2003-2004:** Post-doc (University of Perugia)
- 2005-2015:** Assistant Professor (University of Perugia)
- 2015-:** Associate Professor (University of Perugia)

## EDUCATION

- 2003:** PhD in Information Engineering at the University of Perugia.
- 2000:** Laurea Degree in Electronic Engineering at University of Rome “La Sapienza”, final grade: 110/110 *cum laude* .

## SCIENTIFIC INTERESTS

Emilio Di Giacomo’s research interests are in the general area of Algorithm Engineering, with particular focus to the following fields:

- Graph Drawing,
- Computational Geometry,
- Information Visualization.

## CONFERENCE COMMITTEES

### Steering Committee

**2021-present:** Member of the Steering Committee of the International Symposium on Graph Drawing and Network Visualization.

**2014-2016:** Member of the Steering Committee of the International Symposium on Graph Drawing and Network Visualization.

### Program Committees

**2025:** PC member of the 18<sup>th</sup> IEEE Pacific Visualization Symposium (PacificVis 2025), Taipei, Taiwan, 22–25 April 2025.

**2024:** PC member of the 17<sup>th</sup> IEEE Pacific Visualization Symposium (PacificVis 2024), Tokyo, Japan, 23–26 April 2024.

**2023:** PC member of the 31<sup>st</sup> International Symposium on Graph Drawing (GD 2023), Palermo, Italy, 20–22 September 2023.

**2022:** PC co-chair of the 38<sup>th</sup> European Workshop on Computational Geometry (EuroCG 2022), Perugia, Italy, 14–16 March 2022.

**2020:** PC member of the 36<sup>th</sup> European Workshop on Computational Geometry (EuroCG 2020), Würzburg, Germany, 16–18 March 2020.

**2019:** PC member of the 27<sup>th</sup> International Symposium on Graph Drawing (GD 2019), Prague, Czech Republic, 17–20 September 2019.

**2015:** PC chair of the 23<sup>th</sup> International Symposium on Graph Drawing and Network Visualization (GD 2015), Los Angeles, USA, 24–26 September 2015.

**2013:** PC member of the 21<sup>th</sup> International Symposium on Graph Drawing (GD 2013), Bordeaux, France, 23–25 September 2013.

**2012:** PC member of the 2012 International Workshop on Computer Image and its Applications (CIA 2012) Vancouver, Canada, 26–28 June 2012.

- 2012:** PC member of the 5<sup>th</sup> IEEE Pacific Visualization Symposium (PacificVis 2012) Songdo, South Korea, 28 February–2 March 2012.
- 2011:** PC member of the 2011 International Workshop on Computer Image and its Applications (CIA 2011) Busan, South Korea, 26–28 May 2011.
- 2010:** PC member of the 18<sup>th</sup> International Symposium on Graph Drawing (GD 2010), Konstanz, Germany, 21–24 September 2010.

### Organizing Committee

- 2023:** Co-chair of the organizing committee of the 31<sup>st</sup> Symposium on Graph Drawing and Network Visualization (GD 2023), Palermo 20–22 September 2023.
- 2022:** Co-chair of the organizing committee of the 38<sup>th</sup> European Workshop on Computational Geometry (EuroCG 2022), Perugia 14–16 March 2022.
- 2012:** Publicity chair of the 20<sup>th</sup> Symposium on Graph Drawing (GD 2012), Redmond, WA, USA, 19–21 September 2012.
- 2012:** Organizing committee member of the 28<sup>th</sup> European Workshop on Computational Geometry (EuroCG 2012), Assisi 19–21 March 2012.
- 2011:** Publicity chair of the 1<sup>st</sup> International ICST Conference on Practice and Theory of Algorithms in (Computer) Systems (TAPAS 2011), Rome 18–20 April 2011.
- 2008:** Publicity chair of the 16<sup>th</sup> Symposium on Graph Drawing (GD 2008), Crete, Greece, 21–24 September 2008.
- 2005:** Organizing committee member of the ACM Symposium on Computational Geometry (SoCG 2005), Pisa 6–8 June 2005.
- 2003:** Organizing committee member of the 11<sup>th</sup> Symposium on Graph Drawing (GD 2003), Perugia 21–24 September 2003.

### EDITORIAL ACTIVITY

- 2023-present:** Co-Editor in Chief of the “Journal of Graph Algorithms and Applications” (<http://jgaa.info>).
- 2005-2023:** Publication Editor of the “Journal of Graph Algorithms and Applications” (<http://jgaa.info>).

## RESEARCH PROJECTS

- 2024-2025:** “*Progettazione e Realizzazione Applicativo MDD per Sottosistema di Diagnostica ACC*” Research contract between CINI and RFI – *Principal investigator.*
- 2023-2025:** “*Progettazione e Realizzazione HMI per sottosistema di diagnostica ACC*” Research contract between CINI and RFI – *Principal investigator.*
- 2022-2025:** “*STEAMigPOWER: STEAM approaches at higher education for mIGrants, refugees and asylum seekers’ emPOWERment*”, Erasmus+ KA220-HED - Cooperation partnerships in higher education – *Participant*
- 2022-2023:** “*Per una giustizia giusta: Innovazione ed efficienza negli uffici giudiziari /Giustizia AGILE*”, PON Governance e Capacità Istituzionale 2014-2020 – *Participant.*
- 2022-2025:** “*RASTA - Realtà Aumentata e Story-Telling Automatizzato per la valorizzazione di Beni Culturali ed Itinerari*”, PON 2015-2020 – *Task Leader of OR 1.3.*
- 2019-2022:** “*AHeAD: efficient Algorithms for HARnessing networked Data*” - MIUR PRIN 2017 – *Participant.*
- 2019-2022:** “*SMARTOUR: Intelligent Platform for Tourism*”, MIUR Smart Cities and Communities and Social Innovation – *Participant.*
- 2018-2021:** “*CARE: Un sistema informativo regionale per lo scompenso cardiaco e la patologia vascolari*” - POR-FESR 2014 - 2020 – *Participant*
- 2018-2019:** “*ColleGALi*” Research contract with Comune di Perugia (within project PSR UMBRIA 2014/2020) – *Principal investigator*
- 2017-2018:** “*Kinetic - sistema integrato hardware e software per la misurazione di gesti atletici tramite l’acquisizione e l’elaborazione di dati provenienti da sensori inerziali indossati da atleti*”. Research contract with Laytech s.r.l. (within program POR FESR 2014 – 2020) – *Principal investigator*
- 2014-2017:** “*AMANDA: Algorithmics for MASSive and Networked DATA*”, MIUR PRIN 2012 – *Participant.*
- 2013:** “*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 Sistemica SpA, within the regional call, Innovative Actions, FESR 2007-2013 – *Participant*

- 2010-2012:** “*ALGODEEP: Algorithmic Challenges for Data-intensive Processing on Emerging Computing Platforms*”, MIUR PRIN 2008 – Participant.
- 2007-2009:** “*MAINSTREAM: Algorithms for massive information structures and data streams*”, MIUR PRIN 2006 – Participant.
- 2006-2007:** “*AREA: Information System for Experiences of Environmental Education and Sustainable Development*”, CRIDEA Umbria Regional Project – Participant
- 2004-2006:** “*ALGO-NEXT: Algorithms for the Next Generation Internet and Web: Methodologies, Design and Experiments*”, MIUR PRIN 2004 – Participant.
- 2003-2006:** “*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.
- 2003-2004:** “Design and implementation of software prototypes within the program: Robotic systems for preserving DNA, blood and biological materials at low temperature”, MIUR Project S606/P - Participant
- 2002-2004:** “*ALINWEB: Algorithms for Internet and the Web*”, MIUR PRIN 2002 – Participant.

## TEACHING ACTIVITY

Emilio Di Giacomo teaches and taught in several undergraduate and master courses of the Engineering Faculty of the University of Perugia. In detail:

- 2009-today:** Teacher of **Fundamentals of Computer Science** (Undergraduate Course in Information and Electronic Engineering)
- 2010-today:** Teacher of **Algorithms and Data Structures** (Undergraduate Course in Information and Electronic Engineering)
- 2008:** Teacher of **Fundamentals of Computer Science I** (Undergraduate Course in Information and Electronic Engineering)
- 2006:** Tacher of **Fundamentals of Computer Science II** (Undergraduate Course in Management Engineering)
- 2006-2007:** Teacher of **Information Systems** (Undergraduate Course in Management Engineering)

**2005-2009:** Teacher of **Algorithms for Internet and Web** (Undergraduate Course in Information and Electronic Engineering)

**2005-2009:** Co-teacher of **Guidance for the Project of Computing Systems** (Master Course in Information and Telecommunication Engineering)

He also collaborated and collaborates to the teaching activity of other courses giving some lectures and doing some class exercises. In particular:

**2022-2023:** Collaboration to the teaching of **Information Visualization and Visual Analytics** (Master Course in Information and Robotics Engineering)

**2010-2015:** Collaboration to the teaching of **Databases** (Master Course in Information and Automation Engineering)

**2002-2009:** Collaboration to the teaching of **Information Systems** (Undergraduate Course in Information and Electronic Engineering)

**2003:** Collaboration to the teaching of **Logic Networks** (Undergraduate Course in Information Engineering)

**2002-2003:** Collaboration to the teaching activity of **Information Science Methodologies for Internet** (Undergraduate Course in Information Engineering)

He has been supervisor of about 40 undergraduate and master students dissertations.

## TECHNOLOGY TRANSFER

**2009-2014:** Emilio Di Giacomo is a co-founder of the Vis4 Srl company, started as a spin-off of the University of Perugia, and working in the Information Visualization and Visual Analytics fields. The spin-off, 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 Fabrica, 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. In November 2014, all the academic members of Vis4 have sold their shares to private entrepreneurs, and the company has changed its name.

## PUBLICATIONS

### Books and Book Chapters

- [B4] E. Di Giacomo, W. Didimo “Fondamenti di Informatica in Java” Maggioli Editore, 2013.
- [B3] E. Di Giacomo, G. Liotta, R. Tamassia, “Drawings of Graphs” *Handbook of Graph Theory, Second Edition*, J. Gross, J. Yellen, and P. Zhang eds., CRC Press, 2013.
- [B2] E. Di Giacomo, W. Didimo, and G. Liotta, “Spine and Radial Drawings” *Handbook of Graph Drawing and Visualization*, R. Tamassia editor, CRC Press, 2013.
- [B1] G. Liotta, E. Di Giacomo, R. Magni, and F. Corradi, “Web Solutions for Rehabilitation and Daily Life” *Assistive Technology Assessment Handbook*, S. Federici and M.J. Scherer editors, Taylor-Francis Group LLC, 2012.

### Edited Proceedings and Special Issues

- [E2] E. Di Giacomo, A. Lubiw, “Special Issue of Selected Papers from the 23rd International Symposium on Graph Drawing and Network Visualization (GD 2015). Guest Editors’ Foreword” *Journal of Graph Algorithms and Applications*, 21(1) 1-3, 2017.  
**DOI:**10.7155/jgaa.00404.
- [E1] E. Di Giacomo, A. Lubiw, “Graph Drawing and Network Visualization - 23rd International Symposium, GD 2015, Los Angeles, CA, USA, September 24-26, 2015, Revised Selected Papers” LNCS 9411, Springer, 2015, ISBN 978-3-319-27260-3.  
**DOI:**10.1007/978-3-319-27261-0

### Journal Papers

- [J62] S. Chaplick, G. Da Lozzo, E. Di Giacomo, G. Liotta, F. Montecchiani: “Planar Drawings with Few Slopes of Halin Graphs and Nested Pseudotrees” *Algorithmica* 86(8); 2413-2447, 2024.  
**DOI:**10.1007/S00453-024-01230-7.
- [J61] C. Binucci, E. Di Giacomo, W. J. Lenhart, G. Liotta, F. Montecchiani, M. Nöllenburg, A. Symvonis “On the complexity of the storyplan problem” *Journal of Computer and System Sciences* 139; 103466, 2024.  
**DOI:**10.1016/J.JCSS.2023.103466.
- [J60] E. Di Giacomo, W. Didimo, G. Liotta, F. Montecchiani, A. Tappini “Comparative Study and Evaluation of Hybrid Visualizations of Graphs” *IEEE Transactions on*

*Visualizaton and Computer Graphics* 30(7); 3503-3515, 2024.

**DOI:**10.1109/TVCG.2022.3233389.

- [J59] C. Binucci, G. Da Lozzo, E. Di Giacomo, W. Didimo, T. Mchedlidze, M. Patrignani “Upward Book Embeddability of st-Graphs: Complexity and Algorithms” *Algorithmica* 85(12); 3521-3571, 2023.  
**DOI:**10.1007/S00453-023-01142-Y.
- [J58] C. Binucci, E. Di Giacomo, M. Kaufmann, G. Liotta, A. Tappini “k-Planar Placement and Packing of  $\Delta$ -Regular Caterpillars” *International Journal of Foundations of Computer Science* 34(7); 875-902, 2023.  
**DOI:**10.1142/S0129054123420042.
- [J57] M. A. Bekos, E. Di Giacomo, W. Didimo, G. Liotta, F. Montecchiani “Universal Slope Sets for Upward Planar Drawings” *Algorithmica*, 84(9); 2556-2580, 2022.  
**DOI:**10.1007/s00453-022-00975-3.
- [J56] E. Di Giacomo, G. Liotta, F. Montecchiani “Orthogonal planarity testing of bounded treewidth graphs” *Journal of Computer and System Sciences*,125: 129-148, 2022.  
**DOI:**10.1016/j.jcss.2021.11.004.
- [J55] E. Di Giacomo, W. Didimo, M. Kaufmann, G. Liotta “Stable visualization of connected components in dynamic graphs” *Information Visualization*, 20(1): 3-19, 2021.  
**DOI:**10.1177/1473871620972339.
- [J54] F. De Luca, E. Di Giacomo, S.-H. Hong, S. G. Kobourov, W. J. Lenhart, G. Liotta, H. Meijer, A. Tappini, S. K. Wismath “Packing Trees into 1-planar Graphs” *Journal of Graph Algorithms and Applications*, 25(2): 605-624, 2021.  
**DOI:**10.7155/jgaa.00574.
- [J53] Emilio Di Giacomo, William J. Lenhart, Giuseppe Liotta, Timothy W. Randolph, Alessandra Tappini: “ $(k, p)$ -planarity: A relaxation of hybrid planarity”. *Theoretical Computer Science*, 896: 19-30, 2021.  
**DOI:**10.1016/j.tcs.2021.09.044.
- [J52] E. Di Giacomo, J. Hančl Jr., G. Liotta: “2-colored point-set embeddings of partial 2-trees”. *Theoretical Computer Science*, 896: 31-45, 2021.  
**DOI:**10.1016/j.tcs.2021.09.045.
- [J51] C. Binucci, E. Di Giacomo, S.-H. Hong, G. Liotta, H. Meijer, V. Sacristán, S. K. Wismath “Colored anchored visibility representations in 2D and 3D space” *Computational Geometry*, 89: 101592, 2020.  
**DOI:**10.1016/j.comgeo.2019.101592.

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- [J50] E. Di Giacomo, G. Liotta, F. Montecchiani “1-bend upward planar slope number of SP-digraphs” *Computational Geometry*, 90: 101628, 2020.  
**DOI:**10.1016/j.comgeo.2020.101628.
- [J49] E. Di Giacomo, P. Eades, G. Liotta, H. Meijer, F. Montecchiani “Polyline drawings with topological constraints” *Theoretical Computer Science*, 809: 250-264, 2020.  
**DOI:**10.1016/j.tcs.2019.12.016.
- [J48] E. Di Giacomo, L. Gasieniec, G. Liotta, A. Navarra “On the curve complexity of 3-colored point-set embeddings” *Theoretical Computer Science*, 846: 114-140, 2020.  
**DOI:**10.1016/j.tcs.2020.09.027.
- [J47] E. Di Giacomo, G. Liotta, M. Patrignani, I. Rutter, A. Tappini “NodeTrix Planarity Testing with Small Clusters” *Algorithmica*, 81(9) 3464-3493, 2019.  
**DOI:**10.1007/s00453-019-00585-6.
- [J46] M. A. Bekos, E. Di Giacomo, W. Didimo, G. Liotta, F. Montecchiani, C. N. Raf-topoulou “Edge partitions of optimal 2-plane and 3-plane graphs” *Discrete Mathematics*, 342(4) 1038-1047, 2019.  
**DOI:**10.1016/j.disc.2018.12.002.
- [J45] F. De Luca, E. Di Giacomo, W. Didimo, S. G. Kobourov, G. Liotta “An Experimental Study on the Ply Number of Straight-line Drawings” *Journal of Graph Algorithms and Applications*, 23(1) 71-91, 2019.  
**DOI:**10.7155/jgaa.00484.
- [J44] 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.
- [J43] 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.  
**DOI:**10.1007/s00453-017-0324-2.
- [J42] 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.  
**DOI:**10.1016/j.tcs.2017.12.024.
- [J41] 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.  
**DOI:**10.1016/j.tcs.2017.12.004.

- [J40] C. Binucci, E. Di Giacomo, M. I. Hossain, G. Liotta “1-page and 2-page drawings with bounded number of crossings per edge” *European Journal of Combinatorics*, 68: 24–37, 2018.  
**DOI:**10.1016/j.ejc.2017.07.009.
- [J39] E. Di Giacomo, W. Didimo, G. Liotta, F. Montecchiani “Area-Thickness Trade-Offs for Straight-Line Drawings of Planar Graphs” *The Computer Journal*, 60(1): 135–142, 2017.  
**DOI:**10.1093/comjnl/bxw075.
- [J38] 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, 2016.  
**DOI:**10.1016/j.eswa.2017.06.028.
- [J37] E. Di Giacomo, G. Liotta, T. Mchedlidze “Lower and upper bounds for long induced paths in 3-connected planar graphs” *Theoretical Computer Science*, 636: 47–55, 2016.  
**DOI:**10.1016/j.tcs.2016.04.034.
- [J36] E. Di Giacomo, G. Liotta, F. Montecchiani “Drawing Outer 1-planar Graphs with Few Slopes” *Journal of Graph Algorithms and Applications*, 19(2) 707-741, 2015.  
**DOI:**10.7155/jgaa.00376.
- [J35] E. Di Giacomo, W. Didimo, G. Liotta, H. Meijer, S. K. Wismath “Planar and Quasi-Planar Simultaneous Geometric Embedding” *The Computer Journal*, 58 (11): 3126-3140, 2015.  
**DOI:**10.1093/comjnl/bxv048.
- [J34] C. Binucci, E. Di Giacomo, W. Didimo, F. Montecchiani, M. Patrignani, A. Symvonis, I. G. Tollis “Fan-planarity: Properties and complexity” *Theoretical Computer Science*, 589: 76–86, 2015.  
**DOI:**10.1016/j.tcs.2015.04.020.
- [J33] E. Di Giacomo, W. Didimo, L. Grilli, G. Liotta, and S. A. Romeo “Heuristics for the Maximum 2-Layer RAC Subgraph Problem” *The Computer Journal*, 58 (5): 1085–1098, 2015.  
**DOI:**10.1093/comjnl/bxu017.
- [J32] E. Di Giacomo, G. Liotta, and H. Meijer “The Approximate Rectangle of Influence Drawability Problem” *Algorithmica*, 72 (2): 620–655, 2015.  
**DOI:**10.1007/s00453-013-9866-0.
- [J31] E. Di Giacomo, W. Didimo, G. Liotta, F. Montecchiani, I. G. Tollis “Techniques for Edge Stratification of Complex Graph Drawing” *Journal of Visual Languages and*

- Computing*, 25 (4): 533-543, 2014.  
**DOI:**10.1016/j.jvlc.2014.05.001.
- [J30] E. Di Giacomo, W. Didimo, P. Eades, and G. Liotta “2-Layer Right Angle Crossing Drawings” *Algorithmica*, 68(4), pp. 954-997, 2014.  
**DOI:**10.1007/s00453-012-9706-7.
- [J29] E. Di Giacomo, W. Didimo, G. Liotta, F. Montecchiani “Area requirement of graph drawings with few crossings per edge” *Computational Geometry*, 46 (8), pp. 909-916, 2013.  
**DOI:**10.1016/j.comgeo.2013.03.001.
- [J28] E. Di Giacomo, F. Frati, R. Fulek, L. Grilli, M. Krug “Orthogeodesic point-set embedding of trees”. *Computational Geometry*, 46 (8), pp. 929–944, 2013.  
**DOI:**10.1016/j.comgeo.2013.04.003.
- [J27] E. Di Giacomo, L. Grilli, M. Krug, G. Liotta, I. Rutter “Hamiltonian orthogeodesic alternating paths” *Journal of Discrete Algorithms*, 16, 34–52, 2012.  
**DOI:**10.1016/j.jda.2012.04.012.
- [J26] E. Di Giacomo, W. Didimo, P. Eades, S.-H. Hong, G. Liotta “Bounds on the crossing resolution of complete geometric graphs” *Discrete Applied Mathematics*, 160(1-2) 132-139, 2012.  
**DOI:**10.1016/j.dam.2011.09.016.
- [J25] E. Di Giacomo, W. Didimo, G. Liotta, H. Meijer “Drawing a Tree as a Minimum Spanning Tree Approximation” *Journal of Computer and System Sciences*, 78(2) 491-503, 2012.  
**DOI:**10.1016/j.jcss.2011.06.001.
- [J24] C. Binucci, E. Di Giacomo, W. Didimo, A. Rextin “Switch-Regular Upward Planar Embeddings of Directed Trees” *Journal of Graph Algorithms and Applications*, 15(5) 587-629, 2011.  
**DOI:**10.7155/jgaa.00241.
- [J23] E. Di Giacomo, F. Giordano, G. Liotta “Upward Topological Book Embeddings of DAGs” *SIAM Journal on Discrete Mathematics*, 25(2), pp. 479-489, 2011.  
**DOI:**10.1137/080731128.
- [J22] E. Di Giacomo, W. Didimo, G. Liotta, H. Meijer “Area, Curve Complexity, and Crossing Resolution of Non-Planar Graph Drawings” *Theory of Computing Systems*, 49(3), pp. 565-575, 2011.  
**DOI:**10.1007/s00224-010-9275-6.

- [J21] E. Di Giacomo, W. Didimo, G. Liotta, H. Meijer, S. K. Wismath “Constrained Point-Set Embeddability of Planar Graphs” *International Journal of Computational Geometry and Applications*, 20(5), pp. 577-600, 2010.  
**DOI:**10.1142/S021819591000344X.
- [J20] E. Di Giacomo, W. Didimo, G. Liotta, P. Palladino “Visual Analysis of One-To-Many Matched Graphs”. *Journal of Graph Algorithms and Applications*, 14(1), pp. 97–119, 2010.  
**DOI:**10.7155/jgaa.00200.
- [J19] E. Di Giacomo, G. Liotta, F. Trotta “Drawing Colored Graphs with Constrained Vertex Positions and Few Bends per Edge” *Algorithmica*, 57(4), pp. 796–818, 2010.  
**DOI:**10.1007/s00453-008-9255-2.
- [J18] C. Binucci, E. Di Giacomo, W. Didimo, A. Estrella-Balderrama, F. Frati, S. G. Kobourov, G. Liotta “Upward straight-line embeddings of directed graphs into point sets”. *Computational Geometry*, 43 (2), pp. 219-232, 2010.  
**DOI:**10.1016/j.comgeo.2009.07.002.
- [J17] A. Rugo, M. L. Mele, G. Liotta, F. Trotta, E. Di Giacomo, S. Borsci, S. Federici “A visual sonificated web search clustering engine” *Cognitive Processing*, 10(2), pp. 286-289, 2009.  
**DOI:**10.1007/s10339-009-0317-4.
- [J16] E. Di Giacomo, W. Didimo, G. Liotta, H. Meijer, S. K. Wismath “Point-Set Embeddings of Trees with Given Partial Drawings”. *Computational Geometry*, 42 (6-7), pp. 664-676, 2009.  
**DOI:**10.1016/j.comgeo.2009.01.001.
- [J15] E. Di Giacomo, W. Didimo, M. van Kreveld, G. Liotta, B. Speckmann “Matched Drawings of Planar Graphs”. *Journal of Graph Algorithms and Applications*, 13 (3), pp. 423-445, 2009.  
**DOI:**10.7155/jgaa.00193.
- [J14] E. Di Giacomo, G. Liotta, H. Meijer, S. K. Wismath “Volume Requirements of 3D Upward Drawings” *Discrete Mathematics*, 309 (8), pp. 1824-1837, 2009.  
**DOI:**10.1016/j.disc.2007.12.061.
- [J13] M. Badent, E. Di Giacomo, G. Liotta “Drawing colored graphs on colored points” *Theoretical Computer Science*, 408(2-3), pp. 129-142, 2008.  
**DOI:**10.1016/j.tcs.2008.08.004.
- [J12] E. Di Giacomo, L. Grilli, G. Liotta “Drawing Bipartite Graphs on Two Parallel Convex Curves” *Journal of Graph Algorithms and Applications*, 12(1), pp. 97-112,

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