Alessandra Tappini

Curriculum Vitae (November 22, 2023)

Current Position

Since February 2020, I am a post-doc research fellow at the University of Perugia, Department of Engineering (DI), Perugia, Italy.

Previous Positions

From 2016 to 2020, I have been a Ph.D. student at the University of Perugia, Department of Engineering (DI), Perugia, Italy.

Education

April 9, 2020	**Ph.D. in Industrial and Information Engineering**, *University of Perugia*, Department of Engineering (DI), Perugia, Italy. Thesis: *Hybrid Graph Planarity Testing and Drawing.* Advisor: Prof. Giuseppe Liotta. External reviewers: Prof. William J. Lenhart and Prof. Ignaz Rutter. Committee: Prof. Andrea Monteriù, Prof. Renzo Perfetti, and Prof. Marco Sasso.
February 19, 2016	**Master Degree (Laurea Magistrale) in Computer and Automation Engineering**, *University of Perugia*, Department of Engineering (DI), Perugia, Italy. *Final mark: 110/110 cum laude* Thesis: *Visual analysis of large networks: Design and experimental validation of techniques for the reduction of the visual complexity.* Advisor: Prof. Giuseppe Liotta.

Awards and Honors

September, 2022	**Best Poster Award** - *30th International Symposium on Graph Drawing and Network Visualization.* The Witness Unit Disk Representability Problem. Giuseppe Liotta, Maarten Löffler, Fabrizio Montecchiani, Alessandra Tappini, and Soeren Terziadis.
September, 2021	**Best Paper Award** - Track 2: Experimental, applied, and network visualization aspects - *29th International Symposium on Graph Drawing and Network Visualization.* A User Study on Hybrid Graph Visualizations. Emilio Di Giacomo, Walter Didimo, Fabrizio Montecchiani, and Alessandra Tappini.

2020	**Special mention** for the Best Italian Ph.D. Thesis in Theoretical Computer Science Award, advertised by the Italian Chapter of the European Association for Theoretical Computer Science (IC-EATCS). Ph.D. Thesis: *Hybrid Graph Planarity Testing and Drawing.* `https://www.eatcs.org/index.php/italian-chapter-awards`
September, 2019	**Best Poster Award** - *27th International Symposium on Graph Drawing and Network Visualization.* Packing Trees into 1-planar Graphs. Felice De Luca, Emilio Di Giacomo, Seok-Hee Hong, Stephen Kobourov, William J. Lenhart, Giuseppe Liotta, Henk Meijer, Alessandra Tappini, and Stephen Wismath.
September, 2018	**Best Paper Award** - Track 1: Combinatorial and algorithmic aspects - *26th International Symposium on Graph Drawing and Network Visualization.* Pole Dancing: 3D Morphs for Tree Drawings. Elena Arseneva, Prosenjit Bose, Pilar Cano, Anthony D'Angelo, Vida Dujmović, Fabrizio Frati, Stefan Langerman, and Alessandra Tappini.

Research Interests

My research focuses on the design and development of graph algorithms and software systems for the visual analysis of complex data sets, with particular attention to the reduction of the visual complexity of such networks. My research interests span across the following fields:

- Graph drawing and its applications;
- Theoretical computer science;
- Network visualization and visual analytics;
- Human-computer interaction;
- Computational geometry.

Program Committees

- Program committee member of the *40th European Workshop on Computational Geometry* (EuroCG 2024), Ioannina (Greece), March 13-15, 2024. Website: `https://eurocg2024.math.uoi.gr/`
- Program committee member of the *30th International Symposium on Graph Drawing and Network Visualization* (GD 2022), Tokyo (Japan), September 13-16, 2022. Website: `http://graphdrawing.org/gd2022/`

Organizing Committees

- Organizing committee co-chair of the *31st International Symposium on Graph Drawing and Network Visualization* (GD 2023), Isola delle Femmine (PA), Italy, September 19-22, 2023. Website: `https://gd2023.ing.unipg.it/`
- Organizing committee member of the *38th European Workshop on Computational Geometry* (EuroCG 2022), Perugia, Italy, March 14-16, 2022. Website: `https://eurocg2022.unipg.it/`

Scientific Review Activity

International journals: Computational Geometry: Theory and Applications, Computational Intelligence, Computing in Geometry and Topology, Discrete Applied Mathematics, Discrete Mathematics, Discrete Mathematics and Theoretical Computer Science, European Journal of Combinatorics, IEEE Access, Information Processing Letters, Journal of Computer and System Sciences, Journal of Experimental Algorithmics, Journal of Graph Algorithms and Applications, The Computer Journal, Theoretical Computer Science.

International conferences: CIAC (2021), EuroCG (2020, 2023), GD (2017, 2018, 2019, 2020, 2021, 2022, 2023), IEEE VIS (2021, 2023), ISAAC (2021), MFCS (2022), SOFSEM (2023), SoCG (2023), WADS (2021), WALCOM (2018, 2019, 2020, 2021, 2022, 2023), WG (2019, 2020, 2022).

Attended Conferences and Workshops

September 2023	**GD 2023**, *31st International Symposium on Graph Drawing and Network Visualization*, Isola delle Femmine (PA), Italy.
September 2023	**SWGD 2023**, *Summer Workshop on Graph Drawing 2023*, Caldana (GR), Italy.
March 2023	**EuroCG 2023**, *39th European Workshop on Computational Geometry*, Barcelona, Spain.
March 2023	**BWGD 2023**, *BICI Workshop on Graph Drawing 2023*, Bertinoro (FC), Italy.
January-February 2023	**Dagstuhl Seminar 23051**, *Perception in Network Visualization*, Schloss Dagstuhl, Germany.
September 2022	**GD 2022**, *30th International Symposium on Graph Drawing and Network Visualization*, Tokyo, Japan, *online participation*.
September 2022	**SWGD 2022**, *Summer Workshop on Graph Drawing 2022*, Caldana (GR), Italy.
June 2022	**SWAT 2022**, *18th Scandinavian Symposium and Workshops on Algorithm Theory*, Tórshavn, Faroe Islands.
June 2022	**WG 2022**, *48th International Workshop on Graph-Theoretic Concepts in Computer Science*, Tübingen, Germany.
March 2022	**EuroCG 2022**, *38th European Workshop on Computational Geometry*, Perugia (PG), Italy.
March 2022	**BWGD 2022**, *BICI Workshop on Graph Drawing 2022*, Bertinoro (FC), Italy.
September 2021	**GD 2021**, *29th International Symposium on Graph Drawing and Network Visualization*, Tübingen, Germany.
September 2021	**SWGD 2021**, *Summer Workshop on Graph Drawing 2021*, Castiglione del Lago (PG), Italy.
September 2020	**GD 2020**, *28th International Symposium on Graph Drawing and Network Visualization*, Vancouver, Canada, *online event*.

March-April 2020	**WALCOM 2020**, *14th International Conference and Workshops on Algorithms and Computation*, Singapore, *online event*.
March 2020	**EuroCG 2020**, *36th European Workshop on Computational Geometry*, Würzburg, Germany, *online event*.
January 2020	**SOFSEM 2020**, *46th International Conference on Current Trends in Theory and Practice of Computer Science*, Limassol, Cyprus.
September 2019	**GD 2019**, *27th International Symposium on Graph Drawing and Network Visualization*, Průhonice (Prague), Czech Republic.
March 2019	**BWGD 2019**, *BICI Workshop on Graph Drawing 2019*, Bertinoro (FC), Italy.
September 2018	**GD 2018**, *26th International Symposium on Graph Drawing and Network Visualization*, Barcelona, Spain.
March 2018	**BWGD 2018**, *BICI Workshop on Graph Drawing 2018*, Bertinoro (FC), Italy.
September 2017	**GD 2017**, *25th International Symposium on Graph Drawing and Network Visualization*, Boston, USA.
March 2017	**BWGD 2017**, *BICI Workshop on Graph Drawing 2017*, Bertinoro (FC), Italy.
July 2016	**IISA 2016**, *7th International Conference on Information, Intelligence, Systems and Applications*, Chalkidiki, Greece.

Experience Abroad

September - October 2023	**University of Tübingen (Germany)** - **Wilhelm Schickard Institut für Informatik**, *Visiting post-doc fellow*. During this period I joined the Algorithmik group, leaded by Prof. Michael Kaufmann, and I taught a course about Visual Analytics.
November 2018 - March 2019	**University of Tübingen (Germany)** - **Wilhelm Schickard Institut für Informatik**, *Visiting Ph.D. student*. During this period I joined the Algorithmik group, leaded by Prof. Michael Kaufmann.
July 2018, February 2019	**University of Passau (Germany)**, *Visiting Ph.D. student*. During these periods I collaborated with Prof. Ignaz Rutter and joined the Theoretical Computer Science group.
April - June 2016	**Oxford (UK)**, *Traineeship in GlamOre Ltd*. Design and development of an "e-recruitment and e-collaboration" web platform.

Summer Schools

September 2023	**Visual Exploration of Graph Databases**, *Saracen Sands Hotel & Congress Centre*, Isola delle Femmine (PA), Italy.
September 2019	**PhD School of the 27th International Symposium on Graph Drawing and Network Visualization**, *Charles University*, Prague, Czech Republic.

September 2018	**Recent Trends in Graph Drawing and Network Visualization**, *Universitat Politècnica de Catalunya (UPC)*, Barcelona, Spain.
May 2018	**Intensive Research Program in Discrete, Combinatorial and Computational Geometry**, *Universitat Autònoma de Barcelona (UAB) - Centre de Recerca Matemàtica*, Barcelona, Spain. Inspiring Lectures II: Challenges in Combinatorial and Discrete Geometry.
September 2017	**3rd IEEE Italy Section PhD Summer School - Smarter Engineering for Industry 4.0 (SmE4I4.0)**, *Università degli Studi di Perugia*, Perugia, Italy.
May 2017	**International School on Mathematics "Guido Stampacchia" - Graph Theory, Algorithms and Applications, 4th Edition**, *Ettore Majorana Foundation and Centre for Scientific Culture*, Erice (TP), Italy.
May-June 2016	**Oxford Venture Idea Exploration Workshop**, *Saïd Business School*, Oxford, UK. A six weeks workshop exploring an entrepreneurial idea with hands-on learning to accelerate the start-up process.
July 2011	**3rd International Summer School & Conference on Measuring and Managing Corporate Sustainability**, *Polythechnic Institute of NYU*, New York, USA.

Teaching Experience

A.A. 2023/2024	**Visual Analytics**, *University of Tübingen, Wilhelm Schickard Institut für Informatik, Tübingen, Germany*. Degree: Bioinformatics (B. Sc. & M. Sc.), Computer Science (B. Sc. & M. Sc.), Machine Learning (M. Sc.), Media Informatics (B. Sc. & M. Sc.), Medical Informatics (B. Sc. & M. Sc.). Role: Teacher (30 hours).
A.A. 2022/2023	**Fundamentals of Computer Science - Information Systems (6 ECTS)**, *University of Perugia, Department of Engineering (DI), Perugia, Italy*. Degree: Undergraduate Course in Engineering Management. Role: Teaching Assistant.
A.A. 2022/2023	**Visual Analytics - Hands on**, *University of Perugia, Department of Engineering (DI), Perugia, Italy*. Degree: Doctorate Course in Industrial and Information Engineering (for Ph.D. candidates only). Role: Teacher (20 hours).
A.A. 2022/2023	**C Programming**, *ITS Umbria Academy*, http://www.itsumbria.it. Role: Teacher (40 hours).
A.A. 2021/2022	**Computer Science**, *ITS Umbria Academy*, http://www.itsumbria.it. Role: Co-Teacher (50 of 70 hours).

A.A. 2020/2021	**Fundamentals of Computer Science**, *University of Perugia, Department of Engineering (DI), Perugia, Italy.* Degree: Undergraduate Course in Computer and Electronic Engineering. Role: Tutor (50 hours).
A.A. 2020/2021	**Computer Science**, *ITS Umbria Academy*, `http://www.itsumbria.it`. Role: Co-Teacher (30 of 60 hours).
A.A. 2020/2021	**C Programming**, *ITS Umbria Academy*, `http://www.itsumbria.it`. Role: Co-Teacher (20 of 40 hours).

I co-tutored the following students during their Bachelor or Master thesis:
Lorenzo Angori (M.Sc. 2019), Massimo Briceno (B.Sc. 2022), Barbara Frittella (B.Sc. 2023), Matteo Medori (B.Sc. 2022), Tommaso Piselli (M.Sc. 2022).

Publications

Journals

2023 **Recognizing Map Graphs of Bounded Treewidth**, *Patrizio Angelini, Michael Bekos, Giordano Da Lozzo, Martin Gronemann, Fabrizio Montecchiani, and Alessandra Tappini*, Algorithmica, Springer, 2023, (to appear).

2023 **On the Parameterized Complexity of s-club Cluster Deletion Problems**, *Fabrizio Montecchiani, Giacomo Ortali, Tommaso Piselli, and Alessandra Tappini*, Theoretical Computer Science, Elsevier, 2023, 969: 114041.

2023 **k-planar Placement and Packing of Δ-regular Caterpillars**, *Carla Binucci, Emilio Di Giacomo, Michael Kaufmann, Giuseppe Liotta, and Alessandra Tappini*, International Journal of Foundations of Computer Science, 34(07): 875-902.

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

2023 **Parameterized Complexity of Graph Planarity with Restricted Cyclic Orders**, *Giuseppe Liotta, Ignaz Rutter, and Alessandra Tappini*, Journal of Computer and System Sciences, Elsevier, 2023, 135: 125-144.

2023 **Comparative Study and Evaluation of Hybrid Visualizations of Graphs**, *Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani, and Alessandra Tappini*, IEEE Transactions on Visualization and Computer Graphics, 2023, (to appear).

2022 **Hybrid Graph Visualizations with ChordLink: Algorithms, Experiments, and Applications**, *Lorenzo Angori, Walter Didimo, Fabrizio Montecchiani, Daniele Pagliuca, and Alessandra Tappini*, IEEE Transactions on Visualization and Computer Graphics, 2022, 28(2): 1288-1300.

2021 **(k,p)-planarity: A Relaxation of Hybrid Planarity**, *Emilio Di Giacomo, William J. Lenhart, Giuseppe Liotta, Timothy W. Randolph, and Alessandra Tappini*, Theoretical Computer Science, Elsevier, 2021, 896: 19-30.

2021 **Packing Trees into 1-planar Graphs**, *Felice De Luca, Emilio Di Giacomo, Seok-Hee Hong, Stephen Kobourov, William J. Lenhart, Giuseppe Liotta, Henk Meijer, Alessandra Tappini, and Stephen Wismath*, Journal of Graph Algorithms and Applications, 2021, 25(2): 605-624.

2021 **Simultaneous FPQ-Ordering and Hybrid Planarity Testing**, *Giuseppe Liotta, Ignaz Rutter, and Alessandra Tappini*, Theoretical Computer Science, Elsevier, 2021, 874: 59-79.

2021 **Ortho-polygon Visibility Representations of 3-connected 1-plane Graphs**, *Giuseppe Liotta, Fabrizio Montecchiani, and Alessandra Tappini*, Theoretical Computer Science, Elsevier, 2021, 863: 40-52.

2020 **Graph Planarity by Replacing Cliques with Paths**, *Patrizio Angelini, Peter Eades, Seok-Hee Hong, Karsten Klein, Stephen Kobourov, Giuseppe Liotta, Alfredo Navarra, and Alessandra Tappini*, Algorithms, 2020, 13(8): 194.

2019 **Greedy Rectilinear Drawings**, *Patrizio Angelini, Michael Bekos, Walter Didimo, Luca Grilli, Philipp Kindermann, Tamara Mchedlidze, Roman Prutkin, Antonios Symvonis, and Alessandra Tappini*, Theoretical Computer Science, Elsevier, 2019, 795: 375-397.

2019 **Pole Dancing: 3D Morphs for Tree Drawings**, *Elena Arseneva, Prosenjit Bose, Pilar Cano, Anthony D'Angelo, Vida Dujmović, Fabrizio Frati, Stefan Langerman, and Alessandra Tappini*, Journal of Graph Algorithms and Applications, 2019, 23(3): 579-602.

2019 **NodeTrix Planarity Testing with Small Clusters**, *Emilio Di Giacomo, Giuseppe Liotta, Maurizio Patrignani, Ignaz Rutter, and Alessandra Tappini*, Algorithmica, Springer, 2019, 81(9): 3464-3493.

Conferences

2023 **Evaluating Animation Parameters for Morphing Edge Drawings**, *Carla Binucci, Henry Förster, Julia Katheder, and Alessandra Tappini*, In: Bekos, M.A., Chimani, M. (eds.) Proceedings of the 31st International Symposium on Graph Drawing and Network Visualization (GD 2023). LNCS, Springer (to appear).

2023 **Min-k-planar Drawings of Graphs**, *Carla Binucci, Aaron Büngener, Giuseppe Di Battista, Walter Didimo, Vida Dujmović, Seok-Hee Hong, Michael Kaufmann, Giuseppe Liotta, Pat Morin, and Alessandra Tappini*, In: Bekos, M.A., Chimani, M. (eds.) Proceedings of the 31st International Symposium on Graph Drawing and Network Visualization (GD 2023). LNCS, Springer (to appear).

2023 **Nonplanar Graph Drawings with k Vertices per Face**, *Carla Binucci, Giuseppe Di Battista, Walter Didimo, Seok-Hee Hong, Michael Kaufmann, Giuseppe Liotta, Pat Morin, and Alessandra Tappini*, In: Paulusma, D., Ries, B. (eds.) Proceedings of the 49th International Workshop on Graph-Theoretic Concepts in Computer Science (WG 2023). LNCS, Springer (pp. 86-100).

2023 **k-planar Placement and Packing of $\triangle$-regular Caterpillars**, *Carla Binucci, Emilio Di Giacomo, Michael Kaufmann, Giuseppe Liotta, and Alessandra Tappini*, In: Proceedings of the 39th European Workshop on Computational Geometry (EuroCG 2023) LIPIcs (pp. 30:1-30:6).

2023 **On the Parameterized Complexity of s-club Cluster Deletion Problems**, *Fabrizio Montecchiani, Giacomo Ortali, Tommaso Piselli, and Alessandra Tappini*, In: Gąsieniec, L. (eds.) Proceedings of the 48th International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM 2023), LNCS, Springer (pp. 159-173).

2022 **Small Point-Sets Supporting Graph Stories**, *Giuseppe Di Battista, Walter Didimo, Luca Grilli, Fabrizio Grosso, Giacomo Ortali, Maurizio Patrignani, and Alessandra Tappini*, In: Angelini, P., von Hanxleden, R. (eds.) Proceedings of the 30th International Symposium on Graph Drawing and Network Visualization (GD 2022). LNCS, Springer (pp. 289-303).

2022 **The Witness Unit Disk Representability Problem**, *Giuseppe Liotta, Maarten Löffler, Fabrizio Montecchiani, Alessandra Tappini, and Soeren Terziadis*, In: Angelini, P., von Hanxleden, R. (eds.) Proceedings of the 30th International Symposium on Graph Drawing and Network Visualization (GD 2022). LNCS, Springer (pp. 483-486).

2022 **On the Parameterized Complexity of the s-Club Cluster Edge Deletion Problem**, *Fabrizio Montecchiani, Giacomo Ortali, Tommaso Piselli, and Alessandra Tappini*, In: Dal Lago, U., Gorla, D. (eds.) Proceedings of the 23rd Italian Conference on Theoretical Computer Science (ICTCS 2022). CEUR Workshop Proceedings, CEUR-WS.org (pp. 14-20).

2022 **Parameterized Complexity of Graph Planarity with Restricted Cyclic Orders**, *Giuseppe Liotta, Ignaz Rutter, and Alessandra Tappini*, In: Bekos, M., Kaufmann, M. (eds.) Proceedings of the 48th International Workshop on Graph-Theoretic Concepts in Computer Science (WG 2022). LNCS, Springer (pp. 383-397).

2022 **Recognizing Map Graphs of Bounded Treewidth**, *Patrizio Angelini, Michael Bekos, Giordano Da Lozzo, Martin Gronemann, Fabrizio Montecchiani, and Alessandra Tappini*, In: Czumaj, A., Xin, Q. (eds.) Proceedings of the 18th Scandinavian Symposium and Workshops on Algorithm Theory (SWAT 2022). LIPIcs (pp. 8:1-8:18).

2021   **A User Study on Hybrid Graph Visualizations**, *Emilio Di Giacomo, Walter Didimo, Fabrizio Montecchiani, and Alessandra Tappini*, In: Purchase, H., Rutter, I. (eds.) Proceedings of the 29th International Symposium on Graph Drawing and Network Visualization (GD 2021). LNCS, Springer (pp. 21-38).

2021   **Quasi-upward Planar Drawings with Minimum Curve Complexity**, *Carla Binucci, Emilio Di Giacomo, Giuseppe Liotta, and Alessandra Tappini*, In: Purchase, H., Rutter, I. (eds.) Proceedings of the 29th International Symposium on Graph Drawing and Network Visualization (GD 2021). LNCS, Springer (pp. 195-209).

2020   **Storyline Visualizations with Ubiquitous Actors**, *Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani, and Alessandra Tappini*, In: Auber, D., Valtr, P. (eds.) Proceedings of the 28th International Symposium on Graph Drawing and Network Visualization (GD 2020). LNCS, Springer (pp. 324–332).

2020   **Packing Trees into 1-planar Graphs**, *Felice De Luca, Emilio Di Giacomo, Seok-Hee Hong, Stephen Kobourov, William J. Lenhart, Giuseppe Liotta, Henk Meijer, Alessandra Tappini, and Stephen Wismath*, In: WALCOM: Algorithms and Computation, 14th International Conference and Workshops (WALCOM 2020) LNCS, Springer (pp. 81-93).

2020   **Graph Planarity Testing with Hierarchical Embedding Constraints**, *Giuseppe Liotta, Ignaz Rutter, and Alessandra Tappini*, In: Proceedings of the 36th European Workshop on Computational Geometry (EuroCG 2020) LIPIcs (pp. 34:1-34:7).

2020   **Simultaneous FPQ-Ordering and Hybrid Planarity Testing**, *Giuseppe Liotta, Ignaz Rutter, and Alessandra Tappini*, In: SOFSEM 2020 (46th International Conference on Current Trends in Theory and Practice of Computer Science), LNCS, Springer (pp. 617-626).

2019   **ChordLink: A New Hybrid Visualization Model**, *Lorenzo Angori, Walter Didimo, Fabrizio Montecchiani, Daniele Pagliuca, and Alessandra Tappini*, In: Archambault, D., Tóth, C.D. (eds.) Proceedings of the 27th International Symposium on Graph Drawing and Network Visualization (GD 2019). LNCS, Springer (pp. 276-290).

2019   **FPQ-choosable Planarity Testing**, *Giuseppe Liotta, Ignaz Rutter, and Alessandra Tappini*, In: Archambault, D., Tóth, C.D. (eds.) Proceedings of the 27th International Symposium on Graph Drawing and Network Visualization (GD 2019). LNCS, Springer (pp. 602-604).

2019 **Packing Trees into 1-planar Graphs**, *Felice De Luca, Emilio Di Giacomo, Seok-Hee Hong, Stephen Kobourov, William J. Lenhart, Giuseppe Liotta, Henk Meijer, Alessandra Tappini, and Stephen Wismath*, In: Archambault, D., Tóth, C.D. (eds.) Proceedings of the 27th International Symposium on Graph Drawing and Network Visualization (GD 2019). LNCS, Springer (pp. 605-607).

2019 **(k,p)-planarity: A Relaxation of Hybrid Planarity**, *Emilio Di Giacomo, William J. Lenhart, Giuseppe Liotta, Timothy W. Randolph, and Alessandra Tappini*, In: WALCOM: Algorithms and Computation, 13th International Conference and Workshops (WALCOM 2019) LNCS, Springer (pp. 148-159).

2018 **Ortho-polygon Visibility Representations of 3-connected 1-plane Graphs**, *Giuseppe Liotta, Fabrizio Montecchiani, and Alessandra Tappini*, In: Biedl, T., Kerren, A. (eds.) Proceedings of the 26th International Symposium on Graph Drawing and Network Visualization (GD 2018) LNCS, Springer (pp. 524-537).

2018 **Turning Cliques into Paths to Achieve Planarity**, *Patrizio Angelini, Peter Eades, Seok-Hee Hong, Karsten Klein, Stephen Kobourov, Giuseppe Liotta, Alfredo Navarra, and Alessandra Tappini*, In: Biedl, T., Kerren, A. (eds.) Proceedings of the 26th International Symposium on Graph Drawing and Network Visualization (GD 2018). LNCS, Springer (pp. 67-74).

2018 **Greedy Rectilinear Drawings**, *Patrizio Angelini, Michael Bekos, Walter Didimo, Luca Grilli, Philipp Kindermann, Tamara Mchedlidze, Roman Prutkin, Antonios Symvonis, and Alessandra Tappini*, In: Biedl, T., Kerren, A. (eds.) Proceedings of the 26th International Symposium on Graph Drawing and Network Visualization (GD 2018). LNCS, Springer (pp. 495-508).

2018 **Pole Dancing: 3D Morphs for Tree Drawings**, *Elena Arseneva, Prosenjit Bose, Pilar Cano, Anthony D'Angelo, Vida Dujmović, Fabrizio Frati, Stefan Langerman, and Alessandra Tappini*, In: Biedl, T., Kerren, A. (eds.) Proceedings of the 26th International Symposium on Graph Drawing and Network Visualization (GD 2018). LNCS, Springer (pp. 371-384).

2018 **A Matrix Approach for Weighted Argumentation Frameworks**, *Stefano Bistarelli, Alessandra Tappini, and Carlo Taticchi*, In: Proceedings of the 31st International Florida Artificial Intelligence Research Society Conference (FLAIRS 2018) (pp. 507-512).

2017 **NodeTrix Planarity Testing with Small Clusters**, *Emilio Di Giacomo, Giuseppe Liotta, Maurizio Patrignani, and Alessandra Tappini*, In: Frati, F., Ma, K. (eds.) Proceedings of the 25th International Symposium on Graph Drawing and Network Visualization (GD 2017). LNCS, Springer (pp. 479-491).

2017 **Planar k-NodeTrix Graphs - A new Family of Beyond Planar Graphs**, *Emilio Di Giacomo, Giuseppe Liotta, Maurizio Patrignani, and Alessandra Tappini*, In: Frati, F., Ma, K. (eds.) Proceedings of the 25th International Symposium on Graph Drawing and Network Visualization (GD 2017). LNCS, Springer (pp. 609-611).

2016 **Partial Edge Drawing: Homogeneity is more Important than Crossings and Ink**, *Carla Binucci, Giuseppe Liotta, Fabrizio Montecchiani, and Alessandra Tappini*, 7th International Conference on Information, Intelligence, Systems and Applications, IISA 2016, Chalkidiki, Greece, 2016. IEEE (1-6).