

# Giuseppe Di Battista

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# Bio Sketch

Giuseppe Di Battista is a Professor of Computer Science. He received the Ph.D. in Computer Science from the University of Rome "La Sapienza" and is currently a faculty member in the Department of Engineering at the Third University of Rome. His current research interests include Computer networks, Graph Drawing, and Information Visualization. He has published more than 200 papers in the above areas and has given several invited lectures worldwide. He is one of the authors of a [book](#) by Prentice Hall on Graph Drawing. He served and chaired program committees of international symposiums and is editor and guest editor of international journals. He is a founding member of the steering committee for the Graph Drawing Symposium. His research has been funded by the Italian National Research Council, by the EU, and by several industrial sponsors. He has been national and/or local coordinator of many Projects of Relevant Italian National Interest (PRIN) of the MIUR.

## Main Appointments:

- 2019 - 2021 Research Infrastructure Coordinator of the [Center of Excellence DTC](#)
- 2013 - 2017 Vice President for Research of the Roma Tre University
- 2012 - 2014 Chair of the [Alta Scuola Roma Tre](#)
- 2011 - 2012 Member of the Steering and Control Committee for the Computational Support of the Italian Census
- 2009 - 2013 Member of the [Senato Accademico](#) of the Roma Tre University
- 2006 - 2009 National Testing Committee of the Italian Multi-Provider Public Administration Computer Network ([SPC](#))
- 2000 - 2008 Chair of the [School of Computer Science and Engineering](#) of the Roma Tre University
- 2005 - 2007 Coordinator of the Master on the Security of Computer and Communication Networks of the Roma Tre University
- 2005 - 2008 National Testing Committee of the Italian Worldwide Embassies and Consulates Computer Network ([RIPA](#))
- 2003 - 2005 [Cnel](#) Committee for the Usage of Electronic Documents in B2B Transactions
- 2003 Testing committee of the European Council Presidency Web portal (Italian semester)
- 1999 - 2004 National Testing Committee of the Italian Public Administration Computer Network (RUPA)

**Current PhD students:** [Lorenzo Ariemma](#), [Tommaso Caiazzi](#), [Massimo Candela](#), and [Mariano Scazzariello](#).

**Past PhD students:** [Patrizio Angelini](#), [Marco Chiesa](#), [Luca Cittadini](#), [Lorenzo Colitti](#), [Pier Francesco Cortese](#), [Giordano Da Lozzo](#), [Marco Di Bartolomeo](#), [Roberto di Lallo](#), [Walter Didimo](#), [Fabrizio Frati](#), [Mattia Iodice](#), [Giuseppe Liotta](#), [Gabriele Lospoto](#), [Habib Mostafaei](#), [Bernardo Palazzi](#), [Maurizio Patrignani](#), [Maurizio Pizzonia](#), [Massimo Rimondini](#), [Tiziana Refice](#), [Vincenzo Roselli](#), and [Claudio Squarcella](#).

## Current teaching (pages in Italian):

- [Computer Networks I](#)
- [Theoretical Computer Science](#)

# Publications

 FILTERS

Authors	Title	Publication Venue	↓ Year	Info
Mariano Scazzariello, Lorenzo Ariemma, Giuseppe Di Battista, Maurizio Patrignani	<a href="#">Megalos: A Scalable Architecture for the Virtualization of Network Scenarios</a>	Future Internet	2021	<div style="border: 1px solid black; padding: 2px; display: inline-block; margin-bottom: 5px;">MORE</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">COPY BIBTEX</div>
Habib Mostafaei, Davinder Kumar, Gabriele Lospoto, Marco Chiesa, Giuseppe Di Battista	DeSI: A Decentralized Software-Defined Network Architecture for Internet eXchange Points	IEEE Transactions on Network Science and Engineering	2021	<div style="border: 1px solid black; padding: 2px; display: inline-block; margin-bottom: 5px;">MORE</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">COPY BIBTEX</div>
Giuseppe Di Battista, Fabrizio Frati, Maurizio Patrignani, Marco Tais	<a href="#">Schematic Representation of Large Biconnected Graphs</a>	Journal of Graph Algorithms and Applications	2021	<div style="border: 1px solid black; padding: 2px; display: inline-block; margin-bottom: 5px;">MORE</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">COPY BIBTEX</div>
Patrizio Angelini, Giordano Da Lozzo, Giuseppe Di Battista, Fabrizio Frati, Maurizio Patrignani	<a href="#">2-Level Quasi-Planarity or How Caterpillars Climb (SPQR-)Trees</a>	Proc. ACM-SIAM Symposium on Discrete Algorithms (SODA '21)	2021	<div style="border: 1px solid black; padding: 2px; display: inline-block; margin-bottom: 5px;">MORE</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">COPY BIBTEX</div>
Ariemma, Lorenzo, Liotta, Simone, Candela, Massimo, Di Battista, Giuseppe	Long-Lasting Sequences of BGP Updates	Passive and Active Measurement	2021	<div style="border: 1px solid black; padding: 2px; display: inline-block; margin-bottom: 5px;">MORE</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">COPY BIBTEX</div>

Mariano Scazzariello, Lorenzo Ariemma, Giuseppe Di Battista, Maurizio Patrignani	Megalos: A Scalable Architecture for the Virtualization of Large Network Scenarios	Future Internet	2021	<a href="#">MORE</a> <a href="#">COPY BIBTEX</a>
Emanuele Balloni, Giuseppe Di Battista, Maurizio Patrignani	<a href="#">A Tipping Point for the Planarity of Small and Medium Sized Graphs</a>	Cornell University (arXiv:2008.09405)	2020	<a href="#">MORE</a> <a href="#">COPY BIBTEX</a>
Giuseppe Di Battista, Fabrizio Frati, Maurizio Patrignani, Marco Tais	<a href="#">Schematic Representation of Large Biconnected Graphs</a>	Cornell University (arXiv:2008.09414)	2020	<a href="#">MORE</a> <a href="#">COPY BIBTEX</a>
Michael Bekos, Carla Binucci, Giuseppe Di Battista, Walter Didimo, Martin Gronemann, Karsten Klein, Maurizio Patrignani, Ignaz Rutter	<a href="#">On Turn-Regular Orthogonal Representations</a>	Cornell University (arXiv:2008.09002)	2020	<a href="#">MORE</a> <a href="#">COPY BIBTEX</a>
Michael Bekos, Carla Binucci, Giuseppe Di Battista, Walter Didimo, Martin Gronemann, Karsten Klein, Maurizio Patrignani, Ignaz Rutter	On Turn-Regular Orthogonal Representations	Proc. 28th International Symposium on Graph Drawing and Network Visualization (GD 2020)	2020	<a href="#">MORE</a> <a href="#">COPY BIBTEX</a>
Emanuele Balloni, Giuseppe Di Battista, Maurizio Patrignani	A Tipping Point for the Planarity of Small and Medium Sized Graphs	Proc. 28th International Symposium on Graph Drawing and Network Visualization (GD 2020)	2020	<a href="#">MORE</a> <a href="#">COPY BIBTEX</a>
Giuseppe Di Battista, Fabrizio Frati, Maurizio Patrignani, Marco Tais	Schematic Representation of Large Biconnected Graphs	Proc. 28th International Symposium on Graph Drawing and Network Visualization (GD 2020)	2020	<a href="#">MORE</a> <a href="#">COPY BIBTEX</a>

Giordano Da Lozzo, Giuseppe Di Battista, Fabrizio Frati	<a href="#">Extending Upward Planar Graph Drawings</a>	Computational Geometry: Theory and Applications	2020	<a href="#">MORE</a> <a href="#">COPY BIBTEX</a>
Habib Mostafaei, Gabriele Lospoto, Roberto di Lallo, Massimo Rimondini, Giuseppe Di Battista	A Framework for Multi-Provider Virtual Private Networks in Software-Defined Federated Networks	International Journal of Network Management	2020	<a href="#">MORE</a> <a href="#">COPY BIBTEX</a>
Mariano Scazzariello, Lorenzo Ariemma, Giuseppe Di Battista, Maurizio Patrignani	<a href="#">Megalos: A Scalable Architecture for the Virtualization of Network Scenarios</a>	NOMS 2020 - 2020 IEEE/IFIP Network Operations and Management Symposium	2020	<a href="#">MORE</a> <a href="#">COPY BIBTEX</a>
Manuel Borrazzo, Giordano Da Lozzo, Giuseppe Di Battista and Fabrizio Frati, Maurizio Patrignani	<a href="#">Graph Stories in Small Area</a>	Journal of Graph Algorithms and Applications	2020	<a href="#">MORE</a> <a href="#">COPY BIBTEX</a>
Giordano Da Lozzo, Giuseppe Di Battista, Fabrizio Frati, Maurizio Patrignani, Vincenzo Roselli	<a href="#">Upward Planar Morphs</a>	Algorithmica	2020	<a href="#">MORE</a> <a href="#">COPY BIBTEX</a>
Patrizio Angelini, Giordano Da Lozzo, Giuseppe Di Battista, Fabrizio Frati, Maurizio Patrignani, Ignaz Rutter	<a href="#">Beyond Level Planarity: Cyclic, Torus, and Simultaneous Level Planarity.</a>	Theoretical Computer Science	2020	<a href="#">MORE</a> <a href="#">COPY BIBTEX</a>

<p>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</p>	<p><a href="#">Simple k-planar graphs are simple (k+1)-quasiplanar</a></p>	<p>Journal of Combinatorial Theory, Series B</p>	<p>2019</p>	<p><a href="#">MORE</a> <a href="#">COPY BIBTEX</a></p>
<p>Giordano Da Lozzo, Giuseppe Di Battista, Fabrizio Frati</p>	<p><a href="#">Extending Upward Planar Graph Drawings</a></p>	<p>Proc. 15th Algorithms and Data Structures Symposium (WADS '19)</p>	<p>2019</p>	<p><a href="#">MORE</a> <a href="#">COPY BIBTEX</a></p>
<p>Fidel Barrera-Cruz, Manuel Borrasso, Giordano Da Lozzo, Giuseppe Di Battista, Fabrizio Frati, Maurizio Patrignani, Vincenzo Roselli</p>	<p><a href="#">How to Morph a Tree on a Small Grid</a></p>	<p>Proc. 15th Algorithms and Data Structures Symposium (WADS '19)</p>	<p>2019</p>	<p><a href="#">MORE</a> <a href="#">COPY BIBTEX</a></p>
<p>Giordano Da Lozzo, Giuseppe Di Battista, Fabrizio Frati</p>	<p><a href="#">Extending Upward Planar Graph Drawings</a></p>	<p>Cornell University (arXiv:1902.06575)</p>	<p>2019</p>	<p><a href="#">MORE</a> <a href="#">COPY BIBTEX</a></p>
<p>Marcus Chimani, Giuseppe Di Battista, Fabrizio Frati, Karsten Klein</p>	<p>Advances on Testing C-Planarity of Embedded Flat Clustered Graphs</p>	<p>International Journal of Foundations of Computer Science</p>	<p>2019</p>	<p><a href="#">MORE</a> <a href="#">COPY BIBTEX</a></p>
<p>Luca Marzaletti, Massimo Candela, Giuseppe Di Battista</p>	<p>Upstream Visibility: A Multi-View Routing Visualization</p>	<p>VINCI '18 Proceedings of the 11th International Symposium on Visual Information Communication and Interaction</p>	<p>2018</p>	<p><a href="#">MORE</a> <a href="#">COPY BIBTEX</a></p>

Giordano Da Lozzo, Giuseppe Di Battista, Fabrizio Frati, Maurizio Patrignani, Vincenzo Roselli	<a href="#">Upward Planar Morphs</a>	Cornell University (arXiv:1808.10826)	2018	<a href="#">MORE</a> <a href="#">COPY BIBTEX</a>
Giordano Da Lozzo, Giuseppe Di Battista, Fabrizio Frati, Maurizio Patrignani, Vincenzo Roselli	<a href="#">Upward Planar Morphs</a>	26th International Symposium on Graph Drawing and Network Visualization (GD 2018)	2018	<a href="#">MORE</a> <a href="#">COPY BIBTEX</a>
Giuseppe Di Battista	Morphing Planar Graph Drawings	Proc. 12th International Conference WALCOM 2018	2018	<a href="#">MORE</a> <a href="#">COPY BIBTEX</a>
Gaetano Bonofiglio, Veronica Iovinella, Gabriele Lospoto, Giuseppe Di Battista	Kathará: A Container-Based Framework for Implementing Network Function Virtualization and Software Defined Networks	Proc. IFIP/IEEE Network Operations and Management Symposium (NOMS 2018)	2018	<a href="#">MORE</a> <a href="#">COPY BIBTEX</a>
Giordano Da Lozzo, Giuseppe Di Battista, Fabrizio Frati, Maurizio Patrignani	<a href="#">Computing NodeTrix Representations of Clustered Graphs</a>	Journal of Graph Algorithms and Applications	2018	<a href="#">MORE</a> <a href="#">COPY BIBTEX</a>
Giuseppe Di Battista, Valentino Di Donato, Maurizio Pizzonia	Long Transaction Chains and the Bitcoin Heartbeat	Euro-Par 2017: Parallel Processing Workshops. Euro-Par 2017	2018	<a href="#">MORE</a> <a href="#">COPY BIBTEX</a>
Massimo Candela, Marco Di Bartolomeo, Giuseppe Di Battista, Claudio Squarcella	<a href="#">Radian: Visual Exploration of Traceroutes</a>	IEEE Transactions on Visualization and Computer Graphics	2018	<a href="#">MORE</a> <a href="#">COPY BIBTEX</a>

<p>Patrizio Angelini, Michael A. Bekos, Franz J. Brandenburg, Giordano Da Lozzo, Giuseppe Di Battista, Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani, Ignaz Rutter</p>	<p><a href="#">On the Relationship between k-Planar and k-Quasi Planar Graphs</a></p>	<p>Cornell University (arXiv:1702.08716)</p>	<p>2017</p>	<p>MORE COPY BIBTEX</p>
<p>Patrizio Angelini, Giordano Da Lozzo, Giuseppe Di Battista, Fabrizio Frati, Maurizio Patrignani, Ignaz Rutter</p>	<p><a href="#">Intersection-Link Representations of Graphs</a></p>	<p>Journal of Graph Algorithms and Applications</p>	<p>2017</p>	<p>MORE COPY BIBTEX</p>
<p>Patrizio Angelini, Michael A. Bekos, Franz J. Brandenburg, Giordano Da Lozzo, Giuseppe Di Battista, Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani, Ignaz Rutter</p>	<p><a href="#">On the Relationship between k-Planar and k-Quasi Planar Graphs</a></p>	<p>43rd International Workshop on Graph-Theoretic Concepts in Computer Science (WG 2017), Eindhoven, The Netherlands, June 21-23, 2017</p>	<p>2017</p>	<p>MORE COPY BIBTEX</p>
<p>Habib Mostafaei, Gabriele Lospoto, Roberto di Lallo, Massimo Rimondini, Giuseppe Di Battista</p>	<p>SDNetkit: A Testbed for Experimenting SDN in Multi-Domain Networks</p>	<p>Proceedings of the 3rd IEEE Conference on Network Softwarization (IEEE NetSoft 2017)</p>	<p>2017</p>	<p>MORE COPY BIBTEX</p>



<p>Habib Mostafaei, Gabriele Lospoto, Andrea Brandimarte, Roberto di Lallo, Massimo Rimondini, Giuseppe Di Battista</p>	<p>SDNS: Exploiting SDN and the DNS to Exchange Traffic in a Federated Network</p>	<p>Proceedings of the 3rd IEEE Conference on Network Softwarization (IEEE NetSoft 2017)</p>	<p>2017</p>	<p>MORE COPY BIBTEX</p>
<p>Patrizio Angelini, Michael A. Bekos, Franz J. Brandenburg, Giordano Da Lozzo, Giuseppe Di Battista, Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani, Ignaz Rutter</p>	<p><a href="#">On the Relationship between k-Planar and k-Quasi Planar Graphs</a></p>	<p>(Informal) Proceedings of the 33rd European Workshop on Computational Geometry, Malmo, Sweden, April 5-7, 2017</p>	<p>2017</p>	<p>MORE COPY BIBTEX</p>
<p>Soroush Alamdari, Patrizio Angelini, Fidel Barrera-Cruz, Timothy M. Chan, Giordano Da Lozzo, Giuseppe Di Battista, Fabrizio Frati, Penny Haxell, Anna Lubiw, Maurizio Patrignani, Vincenzo Roselli, Sahil Singla, Bryan T. Wilkinson</p>	<p>How to morph planar graph drawings</p>	<p>SIAM Journal on Computing</p>	<p>2017</p>	<p>MORE COPY BIBTEX</p>
<p>Marco Chiesa, Roberto di Lallo, Gabriele Lospoto, Habib Mostafaei, Massimo Rimondini, Giuseppe Di Battista</p>	<p><a href="#">PrIXP: Preserving the Privacy of Routing Policies at Internet eXchange Points</a></p>	<p>Proc. IFIP/IEEE International Symposium on Integrated Network Management (IM 2017)</p>	<p>2017</p>	<p>MORE COPY BIBTEX</p>

Patrizio  
Angelini,  
Giordano Da  
Lozzo,  
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Battista,  
Fabrizio Frati

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Testing for  
Embedded  
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