Curriculum Vitae di Giuseppe Di Battista
(Febbraio 2020)

Giuseppe Di Battista, nato a Roma il 28/11/1960, è dottore di ricerca in Informatica. E' diventato professore ordinario di Sistemi di Elaborazione nel 1994 ed attualmente afferisce al Dipartimento di Ingegneria (Dipartimento riconosciuto dal Miur nel 2018 come Dipartimento di Eccellenza) dell'Università degli Studi Roma Tre.

Incarichi più Significativi degli Ultimi Quindici Anni

2018 – …. Coordinatore dell'Infrastruttura di Ricerca del DTC Lazio (circa 140 laboratori di ricerca distribuiti tra le Università La Sapienza, Tor Vergata, Roma Tre, Tuscia, Cassino e i tre Enti CNR, ENEA, INFN).

2013 – 2017 Pro-rettore con delega per la Ricerca dell'Università degli Studi Roma Tre.

2012 – 2014 Direttore dell'Alta Scuola Roma Tre.

2011 Membro del Comitato di Audit dell'ISTAT per gli aspetti ICT del Censimento 2011.

2009 – 2013 Membro del Senato Accademico dell'Università Roma Tre.

2008 – 2009 Membro della Commissione di Collaudo del Cnipa per la Progettazione, realizzazione e gestione di servizi di infrastruttura e di qualificazione per la cooperazione applicativa nell'ambito del Sistema Pubblico di Connettività - CG SICA.

2006 – 2009 Membro e quindi Presidente della Commissione di Collaudo del Cnipa dei Servizi di Connettività e Sicurezza nell'ambito del Sistema Pubblico di Connettività.

2005 – 2008 Membro della Commissione di Collaudo dell'AIPA della Rete Internazionale della Pubblica Amministrazione (RIPA).

Ricerca Scientifica

Gli interessi di ricerca di Giuseppe Di Battista comprendono le Reti di Computer, la Sicurezza dei Sistemi e delle Reti e la Visualizzazione dell'Informazione.

Nelle aree di ricerca sopra menzionate ha pubblicato circa 80 lavori su riviste internazionali e più di 130 lavori su conferenze internazionali.

Tra i lavori su rivista speciale menzione meritano gli oltre 10 lavori su Transactions della IEEE. Tra essi lavori su: IEEE Trans. on Visualization and Computer Graphics, IEEE/ACM Trans. on Networking, IEEE Trans. on Network and Service Management, IEEE Trans. Computers, IEEE Trans. on Software Engineering, IEEE Trans. on Knowledge and Data Engineering, e IEEE Trans. on Systems, Man, and Cybernetics.

Tra le pubblicazioni in conferenze internazionali spiccano i lavori a IEEE Infocom, a IEEE International Conference on Network Protocols, ad ACM Symposium on Data Structures and Algorithms, ad ACM Symposium on Computational Geometry, a ACM Symposium on Theory of Computing, a IEEE Symposium on Foundations of Computer Science, a Int. Conference on Very Large Data Bases (VLDB).

E' titolare di brevetti sulla sicurezza degli outsourced Databases.

Attualmente il suo h-index Google Scholar è 44, con più di 11.000 citazioni.

E' stato invitato a tenere keynote e invited lectures in tutto il mondo. Tra le invited lectures più significative quelle tenute a GD (2019), Walcom (2018), IEEE PacificVis (2013) all' Ecole Polytechnique Federale Lausanne (2010), alla Conferenza WG di Durham, U.K (2008) e all'ACM Symposium on Computational Geometry (2005).

È editor delle riviste Computational Geometry Theory & Applications e Journal of Graph Algorithms and Applications. E' stato guest editor di diverse riviste, ad esempio: Algorithmica, Computational Geometry Theory & Applications, IEEE Computer Graphics and Applications, IEEE Trans. on Visualization and Computer Graphics.

Ha partecipato al comitato di programma di numerose conferenze ed è stato presidente del comitato di programma di IEEE Pacific Visualization Symposium 2013, ESA2003, GD1997, CIAC1997. E' membro permanente dello steering committee della Conferenza GD.

Principali Risultati Scientifici

La lista dei principali risultati scientifici che ha contribuito a ottenere contiene:

2017-2018 – Paradigma Upstream visibility per il routing interdominio.

2014-2018 – Algoritmi per il morphing di topologie.

2011-2012 – Algoritmi per la rappresentazione simultanea di più reti.

2010-2012 – Algoritmi per la visualizzazione di reti in ambienti di streaming.

2010 – Attuale miglior bound per il calcolo del queue number di grafi planari.

2008-2012 – Metodologie per la verifica della stabilità, della sicurezza e della robustezza del routing interdominio.

2006-2007 – Metodologia per verificare la validità delle informazioni contenute nell' Internet Routing Registry.

2005-2006 – Algoritmi per la visualizzazione topografica di Internet.

2003-2007 – Metodologia per l'assessment dello stato della transizione IPv4-IPv6 in funzione del dispiegamento di tunnel.

2002-2012 – Teoria delle relazioni tra tecniche di clusterizzazione e planarità.

2002-2007 – Metodologia per inferire le relazioni commerciali tra Internet Service Provider basata sull'osservazione dello stato del routing interdominio.

1995-2006 – Teoria delle proximity representations.

1995 – Metodologia, ora ampiamente adottata per la valutazione sperimentale di algoritmi per la visualizzazione delle reti.

1993 – Caratterizzazione delle Delaunay triangulations.

1991-1993 – Teoria delle relazioni tra connettività e complessità degli algoritmi on-line.

1989-2012 – Classificazione sistematica delle reti, in termini di complessità strutturale e di rappresentabilità geometrica.

1989 – Definizione della struttura di dati SPQR-tree, una delle più utilizzate per algoritmi su grafi planari.

1988-1999 – Teoria algoritmica dell'Upward Planarità, controparte orientate della planarità tradizionale.

1986-1988 – Definizione dell'approccio topology-shape-metrics approach per la visualizzazione delle informazioni relazionali, uno dei metodi fondanti del graph drawing, utilizzato in un gran numero di sistemi software.

Finanziamento dell'Attività di Ricerca

E’ stato coordinatore di progetti finanziati dal CNR (Robust Computational Geometry, Design of Concurrent Information Systems), dal Miur (Progetti di Rilevante Interesse Nazionale – Prin 2012, 2008, 2006, 2004, 2002 e 1999), dalla NATO, e dalla EU. Il progetto europeo nel quale è stato più recentemente coinvolto è il progetto “Preventive methodology and Tools to protect utilities” per la protezione delle infrastrutture critiche.

E’ stato inoltre partner del progetto GraDR della European Science Foundation.

I risultati della sua ricerca sono stati trasferiti all’ industria ICT attraverso contratti con vari sponsor industriali quali Cabletron Systems, Enterasys, CM Sistemi, Finsiel, Integra Sistemi, Laziomatica e Sysdata.

Nel 2017 ha avuto un contratto da Agid per lo Sviluppo di tecnologie innovative per la Pubblica Amministrazione.

Rete della Ricerca

Collabora con varie università ed enti di ricerca nell’ambito di una fitta rete di rapporti scientifici. La lista delle università con le quali collabora annovera, tra le altre, Brown University (Prof. Tamassia), University of California at Irvine (Prof. Goodrich), Charles University in Prague (Prof. Kratochvìl), Karlsruhe Institute of Technology (Prof. Wagner), University of Waterloo (Prof. Lubiw).

Attività Didattica

Nell’AA 2019/2020 insegna Reti di Calcolatori e Informatica Teorica.

La sua esperienza didattica del passato può essere sintetizzata come segue. Nelle università di Roma La Sapienza, della Basilicata, di Roma Tre, Di Battista ha insegnato per molti anni corsi di Fondamenti di Informatica, Impianti di Elaborazione, Informatica Teorica, Infrastrutture delle Reti di Calcolatori, Programmazione dei Calcolatori Elettronici, Reti di Calcolatori. Insegna anche all’Alta Scuola Roma Tre (ad es. nel 2017/2018 ha insegnato un corso su Bitcoin e sulla Blockchain).

Ha seguito e segue l’attività di circa 20 dottori di ricerca. Tra i dottori di ricerca di cui è stato tutore quattro sono professori universitari in Italia, tre sono professori o ricercatori all’estero, uno è ricercatore in Italia, quattro lavorano per Google.

Pubblicazioni

Per una lista completa delle pubblicazioni si veda:
http://www.dia.uniroma3.it/~compunet/www/view/person.php?id=gdb

Libri

1. G. Di Battista, P. Eades, R. Tamassia, I. G. Tollis, Graph Drawing, Prentice Hall, Upper Saddle River, NJ 1999.

2. Giuseppe Di Battista, Jean-Daniel Fekete, Huamin Qu, Pacific Visualization Symposium (PacificVis), volume in, IEEE, 2011.

3. Giuseppe Di Battista, Uri Zwick, Algorithms - ESA 2003, 11th Annual European Symposium, Budapest, Hungary, September 16-19, 2003, Proceedings volume 2832 in Lecture Notes in Computer Science Springer 2003.

4. Giuseppe Di Battista, Graph Drawing, 5th International Symposium, GD '97, Rome, Italy, September 18-20, 1997, Proceedings volume 1353 in Lecture Notes in Computer Science, Springer 1998.

5. Gian Carlo Bongiovanni, Daniel P. Bovet, Giuseppe Di Battista, Algorithms and Complexity, Third Italian Conference, CIAC '97, Rome, Italy, March 12-14, 1997, Proceedings volume 1203 in Lecture Notes in Computer Science Springer 1997.

Articoli su Riviste Internazionali

1. Marcus Chimani, Giuseppe Di Battista, Fabrizio Frati, Karsten Klein. Advances on Testing C-Planarity of Embedded Flat Clustered Graphs. International Journal of Foundations of Computer Science. 2018. To appear.

2. Giordano Da Lozzo, Giuseppe Di Battista, Fabrizio Frati, Maurizio Patrignani. Computing NodeTrix Representations of Clustered Graphs. Journal of Graph Algorithms and Applications. 22(2):139-176. 2018.

3. Massimo Candela, Marco Di Bartolomeo, Giuseppe Di Battista, Claudio Squarcella. Radian: Visual Exploration of Traceroutes. IEEE Transactions on Visualization and Computer Graphics. 24(7):2194-2208. Jul 2018.

4. Patrizio Angelini, Giordano Da Lozzo, Giuseppe Di Battista, Fabrizio Frati, Maurizio Patrignani, Ignaz Rutter. Intersection-Link Representations of Graphs. Journal of Graph Algorithms and Applications. 21(4):731-755. 2017.

5. 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. How to morph planar graph drawings. SIAM Journal on Computing. 46(2):824-852. 2017.

6. Patrizio Angelini, Giordano Da Lozzo, Giuseppe Di Battista, Fabrizio Frati. Strip Planarity Testing for Embedded Planar Graphs. Algorithmica. 77(4):1022-1059. 2017.

7. Marco Chiesa, Giuseppe Di Battista, Thomas Erlebach, Maurizio Patrignani. Computational Complexity of Traffic Hijacking under BGP and S-BGP. Theoretical Computer Science. 600:143-154. 2015.

8. Patrizio Angelini, Giordano Da Lozzo, Giuseppe Di Battista, Fabrizio Frati, Vincenzo Roselli. The Importance of Being Proper (In Clustered-Level Planarity and T-Level Planarity. Theoretical Computer Science. 571:1-9. 2015.

9. Patrizio Angelini, Giordano Da Lozzo, Giuseppe Di Battista, Fabrizio Frati, Maurizio Patrignani, Vincenzo Roselli. Relaxing the Constraints of Clustered Planarity. Computational Geometry: Theory and Applications. 48(2):42-75. 2015.

10. Stefano Vissicchio, Luca Cittadini and Giuseppe Di Battista. On iBGP Routing Policies. IEEE/ACM Transactions on Networking. 23(1):227-240. 2015.

11. Patrizio Angelini, Giuseppe Di Battista, Fabrizio Frati, Vìt Jelìnek, Jan Kratochvìl, Maurizio Patrignani, Ignaz Rutter. Testing Planarity of Partially Embedded Graphs. ACM Transactions on Algorithms. 11(4). 2015. Article No. 32.

12. Marco Chiesa, Gabriele Lospoto, Massimo Rimondini, Giuseppe Di Battista. Intra-Domain Routing with Pathlets. Computer Communications. 46:76-86. 2014.

13. Giuseppe Di Battista, Fabrizio Frati, Janos Pach. On the Queue Number of Planar Graphs. SIAM Journal on Computing. 42(6):2243-2285. 2013.

14. Patrizio Angelini, Pier Francesco Cortese, Giuseppe Di Battista, Maurizio Patrignani. Topological Morphing of Planar Graphs. Theor. Computer Science. 514:2-20. 2013.

15. Patrizio Angelini, Giuseppe Di Battista, Fabrizio Frati. Simultaneous Embedding of Embedded Planar Graphs. International Journal on Computational Geometry and Applications. 23(2):93-126. 2013. Special Issue on Selected Papers from ISAAC '11.

16. Giordano Da Lozzo, Giuseppe Di Battista, Claudio Squarcella. Visual Discovery of the Correlation between BGP Routing and Round-Trip Delay Active Measurements. Computing. 96(1):67-77. 2014.

17. Giuseppe Di Battista and Jean-Daniel Fekete, Huamin Qu. Guest Editor's Introduction: Special Section on the IEEE Pacific Visualization Symposium. IEEE Transactions on Visualization and Computer Graphics. 18(9):1381-1382. 2012.

18. Giuseppe Di Battista and Jean-Daniel Fekete, Huamin Qu. Visualization Applications and Design Studies - Guest editors' introduction. IEEE Computer Graphics and Applications. 32(1):20-21. 2012.

19. Giuseppe Di Battista, Claudio Squarcella, Wolfgang Nagele. How to Visualize the K-Root Name Server. Journal of Graph Algorithms and Applications. 16(3):675-699. 2012.

20. Giuseppe Di Battista, Fabrizio Frati, Maurizio Patrignani. Nonconvex Representations of Plane Graphs. SIAM Journal on Discrete Mathematics. 26(4):1670-1681. 2012.

21. Carla Binucci, Ulrik Brandes, Giuseppe Di Battista, Walter Didimo, Marco Gaertler, Pietro Palladino, Maurizio Patrignani, Antonios Symvonis, Katharina Zweig. Drawing Trees in a Streaming Model. Information Processing Letters. 112:418-422. 2012.

22. Giordano Da Lozzo, Giuseppe Di Battista, Francesco Ingrassia. Drawing Graphs on a Smartphone. Journal of Graph Algorithms and Applications. 16(1):109-126. 2012. Special Issue on Selected Papers from GD '10.

23. Patrizio Angelini, Enrico Colasante, Giuseppe Di Battista, Fabrizio Frati, Maurizio Patrignani. Monotone Drawings of Graphs. Journal of Graph Algorithms and Applications. 16(1):5-35. 2012. Special Issue on Selected Papers from GD '10. [download pdf]

24. Patrizio Angelini, Giuseppe Di Battista, Fabrizio Frati, Maurizio Patrignani, Ignaz Rutter. Testing the Simultaneous Embeddability of Two Graphs whose Intersection is a Biconnected or a Connected Graph. Journal of Discrete Algorithms. 14:150-172. 2012.

25. Giuseppe Di Battista, Ethan Kim, Giuseppe Liotta, Anna Lubiw, Sue Whitesides. The Shape of Orthogonal Cycles in Three Dimensions. Discrete and Computational Geometry. 47:461-491. 2012.

26. Luca Cittadini, Giuseppe Di Battista, Massimo Rimondini, Stefano Vissicchio. Wheel + Ring = Reel: the Impact of Route Filtering on the Stability of Policy Routing. IEEE/ACM Transactions on Networking. 19(4):1085-1096. Aug 2011.

27. Patrizio Angelini, Giuseppe Di Battista, Fabrizio Frati. Succinct Greedy Drawings Do Not Always Exist. Networks. 59(3):267-274. 2012.

28. Luca Cittadini, Giuseppe Di Battista, Massimo Rimondini. On the Stability of Interdomain Routing. ACM Computing Surveys. 44(4):26:1-26:40. 2012.

29. Luca Cittadini, Massimo Rimondini, Stefano Vissicchio, Matteo Corea, Giuseppe Di Battista. From Theory to Practice: Efficiently Checking BGP Configurations for Guaranteed Convergence. IEEE Transactions on Network and Service Management. 8(4):387-400. Dec 2011.

30. Patrizio Angelini, Luca Cittadini, Giuseppe Di Battista, Walter Didimo, Fabrizio Frati, Michael Kaufmann, Antonios Symvonis. On the Perspectives Opened by Right Angle Crossing Drawings. Journal of Graph Algorithms and Applications. 15(1):53-78. 2011. Special Issue on Selected Papers from GD '09. [download pdf]

31. Patrizio Angelini, Giuseppe Di Battista, Maurizio Patrignani. Finding a Minimum-Depth Embedding of a Planar Graph in O(n^4) Time. Algorithmica. 60(4):890-937. 2011.

32. Pier Francesco Cortese, Giuseppe Di Battista, Maurizio Patrignani, Maurizio Pizzonia. On Embedding a Cycle in a Plane Graph. Discrete Mathematics. 309(7):1856-1869. Apr 2009.

33. Giuseppe Di Battista, Fabrizio Frati. Efficient C-Planarity Testing for Embedded Flat Clustered Graphs with Small Faces. Journal of Graph Algorithms and Applications. 13(3):349-378. Nov 2009. Special Issue on Selected Papers from GD '07. [download pdf]

34. Pier Francesco Cortese, Giuseppe Di Battista, Fabrizio Frati, Maurizio Patrignani, Maurizio Pizzonia. C-Planarity of C-Connected Clustered Graphs. Journal of Graph Algorithms and Applications. 12(2):225-262. Nov 2008. [download pdf] [see TR1] [see TR2]

35. Giuseppe Di Battista, Guido Drovandi, Fabrizio Frati. How to Draw a Clustered Tree. Journal of Discrete Algorithms. 7(4):479-499. Dec 2009.

36. Giuseppe Di Battista, Fabrizio Frati, Maurizio Patrignani. On Embedding a Graph on the Grid with the Maximum Number of Bends and Other Bad Features. Theory of Computing Systems. 44(2):143-149. Feb 2009. Special Issue on Selected Papers from FUN '07.

37. Giuseppe Di Battista, Fabrizio Frati. Small Area Drawings of Outerplanar Graphs. Algorithmica. 54(1):25-53. May 2009.

38. Lorenzo Colitti, Giuseppe Di Battista, Maurizio Patrignani, Maurizio Pizzonia, Massimo Rimondini. Investigating Prefix Propagation through Active BGP Probing. Microprocessors and Microsystems. 31:460-474. 2007.

39. Giuseppe Di Battista, Thomas Erlebach, Alexander Hall, Maurizio Patrignani, Maurizio Pizzonia, Thomas Schank. Computing the Types of the Relationships between Autonomous Systems. IEEE/ACM Transactions on Networking. 15(2):267-280. Apr 2007.

40. Giuseppe Di Battista, Giuseppe Liotta, Sue H. Whitesides. The strength of weak proximity. Journal of Discrete Algorithms. 4(3):384-400. Sep 2006.

41. Pier Francesco Cortese, Giuseppe Di Battista, Antonello Moneta, Maurizio Patrignani, Maurizio Pizzonia. Topographic Visualization of Prefix Propagation in the Internet. IEEE Transactions on Visualization and Computer Graphics. 12(5):725-732. 2006.

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43. Lorenzo Colitti, Giuseppe Di Battista, Federico Mariani, Maurizio Patrignani, Maurizio Pizzonia. Visualizing Interdomain Routing with BGPlay. Journal of Graph Algorithms and Applications. 9(1):117-148. 2005. Special Issue on the 2003 Symposium on Graph Drawing, GD '03.

44. Lorenzo Colitti, Giuseppe Di Battista, Maurizio Patrignani. IPv6-in-IPv4 tunnel discovery: methods and experimental results. IEEE Transactions on Network and Service Management. 1(1):2-10. Apr 2004.

45. Andrea Carmignani, Giuseppe Di Battista, Walter Didimo, Francesco Matera, Maurizio Pizzonia. Visualization of the Autonomous Systems Interconnections with HERMES. Journal of Graph Algorithms and Applications. 6(3):281-311. 2002.

46. Giuseppe Di Battista, Giuseppe Liotta, Anna Lubiw, Sue Whitesides. Embedding problems for paths with direction constrained edges. Theor. Computer Science. 289(2):897-917. 2002.

47. Giuseppe Di Battista, Walter Didimo, Maurizio Patrignani, Maurizio Pizzonia. Drawing Database Schemas. Software-Practice and Experience. 32:1065-1098. 2002.

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49. Giuseppe Di Battista, Roberto Tamassia, Luca Vismara. Incremental Convex Planarity Testing. Inf. Comput.. 169(1):94-126. 2001.

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56. G. Di Battista, G. Liotta, F. Vargiu. Spirality and Optimal Orthogonal Drawings. SIAM J. Comput.. 27(6):1764-1811. 1998.

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Capitoli di Libri

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Articoli in Conferenze Internazionali

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