

Documento di progettazione del corso di laurea magistrale in Data Science and Management (LM-91 Tecniche e metodi per la società dell'informazione)

Allegato 5 – Curricula docenti di riferimento

Elenco dei curricula:

GIUSEPPE FRANCESCO ITALIANO

IANNINS KALLINIKOS

SILVIO MARTUCELLI

LOUKAS GEORGIADIS

ANTONIO GRILLO

FILIPPO BONTADINI

Giuseppe F. Italiano

Libera Università Internazionale degli Studi Sociali “Guido Carli”
viale Romania 32
00197 Roma, Italy

Tel +39-06-85225626
gitaliano@luiss.it
<http://docenti.luiss.it/italiano/>

SHORT SUMMARY OF QUALIFICATIONS

SCIENTIFIC PROFILE

My current position is (Full) Professor of Computer Science at Luiss University, Rome, Italy. After getting a Ph.D. in Computer Science at Columbia University, I worked as a Research Staff Member at the IBM T.J. Watson Research Center in Yorktown Heights (New York). When I was 33 years old, I won a National competition for Full Professor and went back to Italy, where I held positions as Professor of Computer Science in several universities (University of Salerno, University of Venice Ca’ Foscari, University of Rome Tor Vergata and Luiss University). I have worked on a wide variety of problems, producing highly-cited results on a number of different areas. Most of my research is centered around the design, analysis and engineering of algorithms for big data sets, with applications to several areas, including graph theory, social network analysis, computer and network security, and computational biology. My background, which includes also an experience in industrial research, puts me in a unique position to carry out work that combines basic research with a strong focus on applications.

I published more than 270 papers, most of which in top journals and conferences in theoretical computer science / algorithms, such as *J. ACM*, *SIAM J. Comp.*, *J. Comput. Syst. Sci.*, *ACM Trans. on Alg., Theor. Comp. Sci.*, and *ACM STOC*, *IEEE FOCS*, *ACM-SIAM SODA*, *ICALP* (in computer science, many top tier conferences are highly respected publication venues, arguably with journal-equivalent rankings). As of December 2019, I have a total of 8,550 citations and h-index 43, calculated with Google Scholar, and 3,149 citations and h-index 27, calculated with Scopus. I am included in the list of Top H-index for Computer Science and Electronics (<http://www.guide2research.com/scientists/>) and in the list of Top Italian Scientists (<http://topitalianscientists.org/>).

Throughout the years, I coordinated many research teams and research projects: I was Principal Investigator (Coordinatore Nazionale) of several Italian PRIN projects (Progetti di Rilevante Interesse Nazionale) and of several European Projects. I have an extensive experience on research evaluation, as I was appointed to several research evaluations panels for the European Union and for the DFF (Danish Council for Independent Research). As a further indication of my international scientific stature, in 2011 I have been appointed to the Gödel Prize Committee; the Gödel Prize is the award given to outstanding papers in theoretical computer science, awarded annually since 1993 by the Association for Computing Machinery (ACM) and the European Association for Theoretical Computer Science (EATCS). In 2016 I was nominated *EATCS Fellow* for “*fundamental contributions to the design and analysis of algorithms for solving theoretical and applied problems in graphs and massive data sets, and for his role in establishing the field of algorithm engineering*”. The *European Association for Theoretical Computer Science* (EATCS) is an international organization founded in 1972, and EATCS Fellows are recognized for their outstanding scientific achievements in theoretical computer science (currently there are only 29 EATCS Fellows in the world).

PROFESSIONAL EXPERIENCE

I have been Editor-in-Chief and Associate Editor of 7 international journals, and I have been member / chair of about 90 Program Committees (PC) of international conferences, including the most prestigious in theoretical computer science / algorithms (e.g., STOC, FOCS, SODA, ICALP). Those prestigious conferences have small PCs (around 20 members) compared to the number of submissions (typically several hundred papers), and so being in the PC of those conferences is highly selective. On another note, I strive to pursue research questions that are not only academically challenging, but also relate to important prac-

tical problems, and thus I have been actively working on the technology transfer of my research results: I co-founded two successful startups, TrustMyPhone (<http://trustmyphone.com>, recently sold to an Italian company) and Wireless Lab (<http://www.w-lab.it>, sold to a French company), and I was a member of the Advisory Board of RoboAdvisorCoin (<http://roboadvisorcoin.com>), a Robo-Advisor dedicated to cryptocurrencies, which was among the first to launch an ICO (Initial Coin Offering) in the EU zone. I have been Member of the Board of Directors of another startup (<http://www.innovazioniperlaterra.org/>) and of Consorzio Roma Ricerche, a consortium that supports and promotes technology transfer from research to industry. This is reflected also in my research funding, which comes not only from highly competitive grants from the European Union and the Italian Ministry of Education, University and Research (MIUR), but also from several industrial research contracts with large companies (e.g., Leonardo Finmeccanica SpA, Microsoft, Elettronica SpA) and SMEs (e.g., BioFly, Land, Mashfrog, Spike Reply). Most of those projects were carried out as public-private research partnerships.

SENIOR MANAGEMENT

Throughout the years I held several positions of high responsibility and I have been leading several complex organizations in universities. I have been Chair of the Evaluation Committee (Presidente del nucleo di valutazione) at University of Rome Tor Vergata for 6 years, where I was responsible for evaluation (quality and effectiveness of courses offered and of the research activities carried out) and for strategic planning and control of the University. I have been Department Chair for 8 years: my Department had more than 120 professors, researchers, postdocs, Ph.D. students and administrative / tech staff, with an yearly budget (salary excluded) of the order of million euros. My responsibilities as Department Chair included providing leadership toward the achievement of excellence in teaching, research and service activities of the department, working with other Chairs and Deans to coordinate resource allocations and faculty hires, preparing and proposing budget requests, attracting research grants at the department level, administering the department budget and supervising the work of tech / administrative staff within the department. At University of Rome Tor Vergata I was the Rector's Delegate for Quality, Evaluation and Performance (Delegato del Rettore per la Qualità, Autovalutazione e Performance), and I was in charge of the evaluation, quality control and the strategic and performance planning of the University. I was also the Coordinator of the PhD Program in Computer Science, Control and Geoinformation at University of Rome Tor Vergata. In all those positions, I have been managing and leading large teams of professors, researchers and staff.

TEACHING

I enjoy teaching and I have an extensive teaching experience. In the last 20 years I have been always teaching at least 2-3 courses per year, both at the undergraduate (bachelor) and graduate (master) level. Most of the courses were in the area of algorithms and data structures but I also taught courses on several other topics, including introduction to computer programming, computer architecture, database systems and computer and network security. Last year, I was teaching the following courses (if not specified, the courses are at the University of Rome Tor Vergata): Algorithm Engineering (Ingegneria degli algoritmi); Web Algorithmics (Algoritmi per il Web); Algorithms, Data and Security; Introduction to Computer Science (Informatica) at LUISS University; Customer Intelligence and Big Data (Customer Intelligence e Logiche di Analisi dei Big Data) at LUISS University. I have been teaching also courses both at the undergraduate and graduate level for several universities worldwide (e.g., Aarhus University, Columbia University, University of Copenhagen, Hong Kong University of Science & Technology, Warsaw University) and I have been invited to lecture in several international Summer Schools.

PERSONAL INFORMATION

Born in 1961. Italian Citizen. Married plus four. Enjoy running.

EDUCATION

- 1988 - 91 Ph.D. in Computer Science. Columbia University, New York, NY. PhD Advisor: Prof. Zvi Galil. Thesis Title: "Dynamic data structures for graphs".
- 1990 M.Phil. Columbia University, New York, NY.
- 1987 - 88 M.Sc. in Computer Science. Columbia University, New York, NY.
- 1979 - 85 *Laurea summa cum laude* in Electronics Engineering. University of Rome "La Sapienza", Roma, Italy. Thesis Advisor: Prof. Giorgio Ausiello.

PRESENT POSITION

- 2018 - *Professor of Computer Science.* LUISS University, Rome, Italy.

PREVIOUS POSITIONS

- 1998 - 18 *Professor of Computer Science.* University of Rome Tor Vergata, Italy.
- 2004 - 12 *Chair of the Department of Computer Science, Systems and Production.* University of Rome Tor Vergata.
- 1995 - 98 *Professor of Computer Science.* University of Venice "Ca' Foscari", Italy.
- 1994 - 95 *Professor of Computer Science.* University of Salerno, Italy.
- 1991 - 95 *Research Staff Member.* IBM Research Division, T.J. Watson Research Center, *Communication Systems Department.*
- 1989 - 94 *Assistant Professor.* University of Rome "La Sapienza", Italy.

OTHER APPOINTMENTS

- 2019 - *Member of the EATCS Fellow Selection Committee.*
- 2019 - *Scientific Director of the Master in Cybersecurity,* LUISS University, Rome.
- 2019 - *Scientific Director of the Master in Big Data and Management,* LUISS Business School, Rome.
- 2019 - *Member of the Scientific Committee of ETHOS, Observatory for Ethics,* LUISS Business School, Rome.
- 2019 - *Member of the ALETHEIA Excellence Center,* LUISS , Rome.
- 2019 *Panel Member for Thematic research - Digital Technologiense.* Danish Council for Independent Research (DFF).
- 2018 - *Director of the Bachelor in Management and Computer Science,* LUISS University, Rome.
- 2018 - *Member of the Scientific Committee* of the LUISS Data Lab, Rome.
- 2017 - *Panel Member for Natural Sciences: Mathematics, Statistics and Computer Science.* Danish Council for Independent Research (DFF).
- 2017 - 2019 *Coordinator* of the PhD Program in Computer Science, Control and Geoinformation. University of Rome Tor Vergata.
- 2017 - 2019 *Member of the Advisory Board* of RoboAdvisorCoin (<https://roboadvisorcoin.com>), a Robo-Advisor dedicated to cryptocurrencies.
- 2017 - *Member of the Council,* European Association for Theoretical Computer Science.
- 2017 - *Member of the ESA Test of Time Award Committee.*

- 2017 - *Member* of the ERABLE team (European Research team in Algorithms and Biology, formal and Experimental), Laboratoire de Biométrie et Biologie Évolutive (LBBE), UMR 5558, CNRS / University Claude Bernard (Lyon 1), Lyon, France.
- 2017 *Visiting Professor*. Laboratoire de Recherche en Informatique (LRI), Université Paris-Sud, France.
- 2013 - 2018 *Rector's Delegate for Quality, Evaluation and Performance*. University of Rome Tor Vergata.
- 2012 - 2018 *Member of the Board of Directors*. In-Time (<http://www.innovazioniperlaterra.org/>). Start-up focusing on information technologies for the environment.
- 2012 - 15 *Member of the Scientific Committee*, CeRSI, Research Center in Information Systems, LUISS University, Rome.
- 2011 - 14 *Member of the Gödel Award Committee*, **Chair** in 2014.
- 2009– *Member of the Advisory Board*. MADALGO - Center for MASSive Data ALGORithmics, Aarhus, Denmark.
- 2009 - 17 *Co-founder*, TrustMyPhone (<http://trustmyphone.com>). Start-up focusing on security for mobile devices.
- 2006 - 13 *Member of the Council*. European Association for Theoretical Computer Science.
- 2002 - 08 *Chair of the Evaluation Committee*. University of Rome Tor Vergata.
- 2002 - 08 *Member of the Council*. European Association for Theoretical Computer Science, Italian Chapter.
- 2002 - 16 *Co-founder*, Wireless Lab (<http://www.w-lab.it>). Start up focusing on wireless technologies and on pervasive and mobile computing.
- 2001 - 07 *Member of the Board of Directors*. Roma Ricerche Consortium.
- 2001 - 04 *Coordinator* for the *Campus One* infrastructural grant at University of Rome Tor Vergata. Total funding was approximately ITL 3.5 billions.
- 2000 *Visiting Professor*. Department of Computer Science, Columbia University.
- 2000 *Member of the EATCS Doctoral Dissertation Thesis Award Committee*, EATCS Italian Chapter
- 1998 *Visiting Professor*. Department of Computer Science, The Hong Kong University of Science & Technology.

PRIZES AND AWARDS

- 2018 Best Paper Award at the *26th European Symposium on Algorithms (ESA 2018)*.
- 2016 *EATCS Fellow* for “*fundamental contributions to the design and analysis of algorithms for solving theoretical and applied problems in graphs and massive data sets, and for his role in establishing the field of algorithm engineering*”.
- 2011 Best Paper Award at the *8th Symposium on String Processing and Information Retrieval (SPIRE 2011)*.
- 1997 *Distinguished Visiting Professor*. Max-Planck-Institut für Informatik, Saarbrücken, Germany.
- 1988 - 91 IBM Graduate Fellowship.
- 1986 - 87 Italian National Research Council Fellowship.

COMPETITIVE RESEARCH FUNDING

- 2019-22 Italian Ministry of Education, University and Research, PRIN 2017 Project AHeAD: efficient Algorithms for HARnessing networked Data (Principal Investigator, Coordinatore Nazionale).

- 2018 Bridgestone Open Innovation: Digital Innovation for Driving (Principal Investigator).
- 2015-17 Leonardo Finmeccanica S.p.A., Grant on "Tools and Techniques for the Analysis of Criminal Networks" (Principal Investigator).
- 2015 Elettronica S.p.A., Grant on "Automatic Coverage Planning" (Principal Investigator).
- 2014-16 Italian Ministry of Education, University and Research, PRIN 2012 Project AMANDA: Algorithmics for MAssive and Networked DAta (Principal Co-Investigator).
- 2013-14 Mashfrog S.p.A., Grant on "Wine Web 2.0: Innovative algorithms for mobile transactions" (Principal Investigator).
- 2012-13 TrustMyPhone S.r.l., Grant on "My Mobile Enterprise (MYME)" (Principal Investigator).
- 2012-13 FILAS S.p.A., Grant on "Mobile solutions for e-Health (HE.Mob.TV)" (Principal Investigator).
- 2011 Elettronica S.p.A., Grant on "Cyber Threats" (Principal Investigator).
- 2011 Elettronica S.p.A., Grant on "OODA Loops" (Principal Investigator).
- 2011 Elettronica S.p.A., Grant on "HLA Federated Simulator for Network Centric Scenarios" (Principal Investigator).
- 2011 Land S.r.l., Grant on "High Capacity Color 2D Barcodes" (Principal Investigator).
- 2010-12 European Union, Grant on Secure Imprint GeNerated for papEr Documents (SIGNED), Project No. 262448, FP7-SME-2010-1 (Principal Co-Investigator).
- 2010-12 Italian Ministry of Education, University and Research, PRIN 2008 Project AlgoDEEP: Algorithmic Challenges for Data-intensive Processing on Emerging Computing Platforms (Principal Co-Investigator).
- 2010-11 Biofly S.r.l., Grant on Virtual Black Box (Principal Investigator).
- 2010 Elettronica S.p.A., Grant on Simulators for Mobile Ad Hoc Networks (Principal Investigator).
- 2008-11 European Union, Network of Excellence EuroNF: Network of Excellence on Anticipating the Network of the Future - From Theory to Design.
- 2008-09 Elettronica S.p.A., Grant on Benchmarking for Single Board Computers (Principal Investigator).
- 2008-09 Biofly S.r.l., Grant on Security for Adhoc Networks (Principal Investigator).
- 2008 Zeta Reticuli S.r.l., Grant on Mobile Security (Principal Investigator).
- 2007-08 Spike Replay S.r.l., Grant on Digital Signatures for SMS on smart phones (Principal Investigator).
- 2007-08 Telefono Azzurro Onlus, Grant on Web Security (Principal Investigator).
- 2007-09 Italian Ministry of Education, University and Research, PRIN 2006 Project MAINSTREAM: Algorithms for Massive Information Structures and Data Streams (Principal Co-Investigator).
- 2006-08 European Union, Network of Excellence EuroFGI: Design and Engineering the Future Generation Internet - Towards convergent multi-service networks.
- 2005-06 FILAS S.p.A., Finanziaria Laziale di Sviluppo, Project WEPSS: Web Platform for Secure Sharing of Data and Applications (Principal Investigator).
- 2004-06 Italian Ministry of Education, University and Research, PRIN 2004 Project ALGONEXT: Algorithms for Next Generation Internet and Web (Principal Investigator, Coordinatore Nazionale).
- 2004 Land S.r.l.: Grant on "Security issues for paper documents" (Principal Investigator).

- 2003-06 European Union, Network of Excellence EuroNGI: Design and Engineering the Next Generation Internet.
- 2002-04 Italian Ministry of Education, University and Research, PRIN 2002 Project on Algorithms for Internet and Web (Principal Co-Investigator).
- 2001-02 CNR, Italian National Research Council, Contract n. 01.00690.CT26 (Principal Investigator).
- 2001-02 Special Research Grant from University of Rome Tor Vergata on Algorithmic software for timetabling (Principal Co-Investigator).
- 2001-02 ENEA, Italian Agency for New Technologies, Energy and Environment, Grant on “Design and Simulation of Innovative Transportation Systems” (Principal Investigator).
- 2000-01 CNR, Italian National Research Council, Contract n. 00.00346.CT26 (Principal Investigator).
- 2000-01 CNR, Italian National Research Council, Contract n. 99.00602.CT12 (Principal Investigator).
- 2000-01 Italian Ministry of University and Scientific Research, PRIN 1999 Project on “Algorithms for Large Data Sets: Science and Engineering”, (Principal Co-investigator).

Over the last five years (2015–2019) my average yearly grant income was EUR 323,473.23.

EDITORIAL BOARDS

Journal Editorial Boards

- 2007– Associate Editor, *Algorithmica*
- 2002– Associate Editor, *Theoretical Computer Science*, Track A
- 2008–2017 Editor-in-Chief, *ACM Journal on Experimental Algorithmics*
- 2008–2010 Associate Editor, *Journal of Discrete Algorithms*
- 1999–2008 Editor-in-Chief, *Journal of Discrete Algorithms*
- 1999–2008 Associate Editor, *ACM Journal on Experimental Algorithmics*
- 1995–2007 Associate Editor, *Journal of Complexity*
- 1997–2003 Associate Editor, *Discrete Mathematics and Theoretical Computer Science*
- 1995–2003 Associate Editor, *Journal of Computing and Information*

Journal Guest Editor

1. *Theoretical Computer Science*, 2020. Special issue in memoriam Danny Breslauer.
2. *Theoretical Computer Science*, vol. 658 (263), 2017. Special issue on ‘Horn Formulas, Directed Hypergraphs, Lattices and Closure Systems: related formalisms and applications’.
3. *Algorithmica*, vol. 73(4), 2015. Special issue on the 21st European Symposium on Algorithms.
4. *Journal of Discrete Algorithms*, vol. 7(3), 2009. Special issue on the 6th Int. Conf. on Algorithms and Complexity.
5. *Theoretical Computer Science*, vol. 380 (1–2), 2007. Special issue on the 32nd Int. Coll. on Automata, Languages and Programming.
6. *ACM Journal on Experimental Algorithmics*. Special issue on the 6th Workshop on Algorithm Engineering and Experimentation.
7. *Journal of Discrete Algorithms*, Special Issue, vol. 4 (3), September 2006.
8. *Journal of Algorithms*, 49, 1 (2003). Special Issue on the European Symposium on Algorithms 98.
9. *Algorithmica* vol. 30 (4), 2001, Special issue on Algorithm Engineering.
10. *Journal on Complexity* 15 (1), 1999. Festschrift for Zvi Galil.
11. *ACM Journal on Experimental Algorithmics* 3 (1998). Special Issue on the Workshop on Algorithm Engineering 1997.
12. *Theoretical Computer Science* 130 (1), 1994. Special Issue on Dynamic and On-line Algorithms.

KEYNOTE LECTURES

Invited Lectures at International Schools

1. *Spring School on Algorithms, Optimization and Learning in Dynamic Environment*, Hanoi, Vietnam, 4–8 March 2019.
2. *Indo-German Spring School on Algorithms for Big Data*, Bombay, India, 18–22 February 2019.
3. *4th School on Graph Theory, Algorithms and Applications*, Erice, Italy, 5–13 May, 2017.
4. *Summer School ADDICTION: ADdressing DIfficult problems in a Computationally Tractable fashION*, in Lisbon, Portugal, 16–21 November 2014.
5. *3rd School on Graph Theory, Algorithms and Applications*, Erice, Italy, 8–16 September, 2014.
6. *Microsoft School on Algorithms and Systems for Large Datasets*, Moscow, Russia, July 31 – August 7, 2013.
7. *17th Estonian Winter School in Computer Science (EWSCS)*, Palmse, Estonia, February 26 – March 2, 2012 .
8. *Microsoft Data Structures and Algorithms School (MIDAS)*, St. Petersburg, Russia, August 8–14, 2010.
9. *School on Graph Theory, Algorithms and Applications*, Erice, Italy, 8–16 September, 2008.
10. *20th International School on Algorithms: Science and Engineering*, Lipari, Italy, July 13 – July 26, 2008.
11. *Summer School on Shortest Paths - Between Algorithms and Optimization (PATH05)*, July 4–8, 2005, Copenhagen, Denmark.

Invited Lectures at Conferences

1. *14th Computer Science Symposium in Russia (CSR 2019)*, Novosibirsk, Russia, July 1–5 2019.
2. *17th International Symposium on Experimental Algorithms (SEA 2018)*, L'Aquila, Italy, June 27–29 2018.
3. *10th International Conference on Algorithms and Complexity (CIAC 2017)*, Athens, Greece, May 24–26, 2017.
4. *24th Annual European Symposium on Algorithms (ESA 2016)*, Aarhus, Denmark August 22–24, 2016.
5. *27th International Workshop on Combinatorial Algorithms (IWOCA 2016)*, Helsinki, Finland, August 17–19, 2016.
6. *10th International Workshop on Algorithms and Computation (WALCOM 2016)*, March 29–31, 2016 Kathmandu, Nepal.
7. *25th International Symposium on Algorithms and Computation (ISAAC 2014)*, December 15–17, 2014 Jeonju, Korea.
8. *Theoretical Computer Science (TCS 2014)*, September 1–3, 2014, Rome, Italy.
9. *NATO Technology for Information, Decision and Execution Superiority (TIDE) Sprint*, 16–20 April 2012. Utrecht, The Netherlands.
10. *38th International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM 2012)*, January 21–27, 2012, Špindlerův Mlýn, Czech Republic.
11. *7th International Conference on Algorithms and Complexity (CIAC 2010)*, May 26–28, 2010 Rome, Italy.
12. *4th International Symposium on Experimental Algorithms (SEA 2010)*, Ischia, Italy, May 20–22 2010.
13. *12th International Conference on Principles and Practice of Constraint Programming (CP 2006)*, September 25–29, 2006, Nantes, France.
14. *ALGO 2005* (Joint Symposium and Workshops: ESA 2005, WABI 2005, WAOA 2005, ATMOS 2005), 3–7 October 2005, Palma de Mallorca, Spain.

15. *3rd Workshop on Experimental Algorithms* (WEA 04), May 25–28 2004, Angra dos Reis, Brazil.
16. *11th International Symposium on Graph Drawing* (GD 2003), September 21–24 2003, Perugia, Italy.
17. *14th Australasian Workshop on Combinatorial Algorithms* (AWOCA 2003), July 13–16 2003, Seoul, Korea.
18. “Silver Jubilee”, *25th International Symposium on Mathematical Foundations of Computer Science* (MFCS 2000), August 28 – September 1, 2000, Bratislava, Slovakia.
19. *Workshop on Advances in Data Structures*, December 11–12 1999, Chennai, India.
20. Workshop on Dynamic Graph Problems, *Thematic Programme on Graph Theory and Combinatorial Optimization*, June 5–9, 2000, Victoria, Canada.
21. “Fundamentals” Track (Foundations of Computer Science), *15th IFIP World Computer Congress* (IFIP 98), August 31 – September 4, 1998, Vienna (Austria), 1998.
22. *1st South American Workshop on String Processing* (WSP 93), 13-15 September 1993, Belo Horizonte, Brazil, 1993.
23. *20th Theory Day* at Columbia University, New York, U.S.A., 1992.

STEERING COMMITTEES

- | | |
|-----------|--|
| 2018– | Steering Committee Member of the <i>International Colloquium on Automata, Languages and Programming</i> (ICALP). |
| 2017– | Steering Committee Member of the <i>Workshop on Algorithm Engineering and Experimentation</i> (ALENEX). |
| 2012–2015 | Steering Committee Member of the <i>European Symposium on Algorithms</i> (ESA), Chair from 2013. |
| 2012–2014 | Member of the NATO RTO Task Group “Trusted Information Sharing for Partnerships” (IST-114). |
| 2010–2015 | Steering Committee Member of the <i>International Conference on Algorithms and Complexity</i> (CIAC). |
| 2007–2010 | Steering Committee Member of the <i>European Symposium on Algorithms</i> (ESA). |
| 2005– | Steering Committee Member of the <i>Workshop/Symposium on Experimental Algorithms</i> (WEA / SEA). |
| 2004–2007 | Steering Committee Member of the <i>Workshop on Algorithm Engineering and Experimentation</i> (ALENEX). |
| 1997–2000 | Steering Committee Member of the <i>Workshop on Algorithm Engineering</i> (WAE). |
| 1997–2000 | Steering Committee Member of the <i>European Symposium on Algorithms</i> (ESA). |

PROGRAM COMMITTEES

Program Committee Member / Chair

1. *27th SIAM Symposium on Simplicity in Algorithms* (SOSA 2021), Alexandria, VA, USA, January 11–12, 2021.
2. *27th International Symposium on String Processing and Information Retrieval* (SPIRE 2020), Orlando, FL, USA, October 13–15 2020.
3. **Program Co-Chair**, *8th Annual Privacy Forum* (APF 2020), Lisbon, Portugal, 4–5 June 2020.
4. *Symposium on Algorithmic Approaches for Transportation Modelling, Optimization, and Systems* (ATMOS 2019), Munich, Germany, 12–13 September 2019.
5. **Program Co-Chair**, *7th Annual Privacy Forum* (APF 2019), Rome, Italy, 13–14 June 2019.

6. *11th International Conference on Algorithms and Complexity* (CIAC 2019), Rome, Italy, 27–29 May 2019.
7. *29th International Symposium on Algorithms and Computation* (ISAAC 2018), Jiaoxi, Yilan County, Taiwan, 2018.
8. *50th Annual ACM Symposium on the Theory of Computing* (STOC 2018), Los Angeles, CA, USA, June 25-29, 2018.
9. *45th International Colloquium on Automata, Languages, and Programming* (ICALP 2018) Prague, Czech Republic, July 9-13, 2018.
10. *6th Annual Privacy Forum* (APF 2018), Barcelona, Spain, 13–14 June 2018.
11. *12th International Conference and Workshop on Algorithms and Computation* (WALCOM 2018), Dhaka, Bangladesh, March 3-5, 2018.
12. *24th Annual Symposium on String Processing and Information Retrieval* (SPIRE 2017), Palermo, Italy, September 26–28, 2017.
13. *11th International Frontiers of Algorithmics Workshop* (FAW 2017), Chengdu, Sichuan, China, June 23–25, 2017.
14. *34th International Symposium on Theoretical Aspects of Computer Science* (STACS 2017), Hannover, Germany, March 8–11, 2017.
15. *27th International Symposium on Algorithms and Computation* (ISAAC 2016), Sydney, Australia, Dec 12–14, 2016.
16. *24th Annual European Symposium on Algorithms* (ESA 2016), Aarhus, Denmark August 22–24, 2016.
17. *27th Annual Symposium on Combinatorial Pattern Matching* (CPM 2016), Tel Aviv, Israel, June 27–29, 2016
18. *4th International Symposium on Combinatorial Optimization* (ISCO 2016), Vietri sul Mare, Italy, May 16-18, 2016.
19. *12th Latin American Theoretical Informatics Symposium* (LATIN 2016), Ensenada, Mexico, April 11-15, 2016.
20. *27th ACM-SIAM Symposium on Discrete Algorithms* (SODA 2016), Arlington, Virginia, USA, January 10-12, 2016.
21. **Program Committee Co-Chair**, *15th Workshop on Algorithmic Approaches for Transportation Modeling, Optimization, and Systems* (ATMOS 2015), Patras, Greece, 17 September 2015.
22. *7th Workshop on Massive Data Algorithmics* (MASSIVE 2015), Patras, Greece, 17 September 2015.
23. **Program Committee Co-Chair**, *40th International Symposium on Mathematical Foundations of Computer Science* (MFCS 2015) Milan, Italy, August 24–28, 2015.
24. **Program Committee General Chair**, *41st International Conference on Current Trends in Theory and Practice of Computer Science*, (SOFSEM 2015), January 2015.
25. *41st International Colloquium on Automata, Languages, and Programming* (ICALP 14), Track A, Copenhagen, Denmark, July, 2014.
26. **Program Chair**, *21st Annual European Symposium on Algorithms*, (ESA 2013) Track B, Sophia Antipolis, France, 2–6 September, 2013.
27. **Global Chair**, *19th International European Conference on Parallel and Distributed Computing* (Euro-Par 2013), Topic 12 “Theory and Algorithms for Parallel Computation”, Aachen, Germany, August 26–30, 2013.
28. **Executive Committee Member**, *45th ACM Symposium on Theory of Computing* (STOC 2013), Palo Alto, CA, June, 1-4, 2013
29. **Program Chair**, *39th International Conference on Current Trends in Theory and Practice of Computer Science*, (SOFSEM 2013), Track “Foundations of Computer Science”, January 26–31, 2013.

30. *1st Mediterranean Conference on Algorithms (MEDALG 2012)*, Ein-Gedi, Israel, December 3–5, 2012.
31. *International Workshop on Data Analytics and Mining in the Cloud*, Taipei, Taiwan, December 3–6, 2012.
32. *43rd Annual Conference of the Italian Operational Research Society (AIRO 2012)*, Vietri sul Mare, September 4–7 2012.
33. *37th International Symposium on Mathematical Foundations of Computer Science (MFCS 2012)* Bratislava, Slovakia, August 27–31, 2012.
34. *8th Conf. on Next Generation Internet Networks (NGI 2012)*, Blekinge Institute of Technology, Karlskrona, Sweden, June 25–27, 2012.
35. *13th Scandinavian Symposium and Workshops on Algorithm Theory (SWAT 2012)*, Helsinki, Finland, 4–6 July 2012.
36. *9th International Conference on Integration of Artificial Intelligence and Operations Research Techniques in Constraint Programming (CPAIOR 2012)*, Nantes, France, May 28 – June 1, 2012.
37. *12th Algorithms and Data Structure Symposium (WADS 2011)*, Brooklyn, NY, USA, August 15–17, 2011.
38. *4th International Conference on Contemporary Computing (IC3 2011)*, Noida, Uttar Pradesh, India, August 8–11, 2011.
39. *7th Conf. on Next Generation Internet Networks (NGI 2011)*, Kaiserslautern, Germany, 27–29 June 2011.
40. *21st International Symposium of Algorithms and Computation (ISAAC 2010)*, Jeju island, Korea, December 15–17, 2010.
41. *37th International Colloquium on Automata, Languages, and Programming (ICALP 10)*, Track A, Bordeaux, France, 5–12 July, 2010.
42. *36th International Workshop on Graph Theoretic Concepts in Computer Science (WG 10)*, Zaros, Crete, Greece, June 28–30, 2010.
43. *6th Conf. on Next Generation Internet Networks (NGI 10)*, Paris, France, June 2–4, 2010.
44. *12th Workshop on Algorithm Engineering and Experimentation (ALENEX 10)* Austin, Texas, January 16 2010.
45. *17th Annual European Symposium on Algorithms*, (ESA 09), Copenhagen, Denmark, 7–9 September, 2009.
46. *34st International Symposium on Mathematical Foundations of Computer Science*, (MFCS 09), Novy Smokovec, High Tatras, Slovakia, August 24–28, 2009
47. *5th IEEE Conf. on Next Generation Internet Networks (NGI 09)*, Aveiro, Portugal, 22–24 June 2009.
48. *8th International Symposium on Experimental Algorithms*, (SEA 09), Dortmund, Germany, June 3–6, 2009.
49. *3rd International Workshop on Algorithms and Complexity*, (WALCOM 09), Kolkata, India, 18–20 February, 2009.
50. *35th International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM 09)*, Špindlerův Mlýn, Czech Republic, January 24–30, 2009.
51. *5th IFIP International Conference on Theoretical Computer Science (TCS 08)*, Track A, Milano, Italy, 8–10 September, 2008.
52. *35th International Colloquium on Automata, Languages, and Programming (ICALP 08)*, Track A, Reykjavik, Iceland, 7–11 July, 2008.
53. *4th IEEE Conf. on Next Generation Internet Networks (NGI 08)*, Kraków, Poland, 28–30 April 2008.
54. **Program Co-Chair**, *10th Italian Conference on Theoretical Computer Science*, (ICTCS 07), Rome, Italy, 3–6 October, 2007.

55. *32nd International Symposium on Mathematical Foundations of Computer Science* (MFCS 07), Cesky Krumlov, Czech Republic, 27–31 August, 2007.
56. *6th Workshop on Experimental Algorithms* (WEA 07), Rome, Italy, 6–9 June, 2007.
57. *3rd Int. Conference on Algorithmic Aspects in Information and Management* (AAIM’07), Portland, USA, 6–8 June, 2007.
58. *3rd IEEE Conf. on Next Generation Internet Networks – Traffic Engineering* (NGI 07), Tondheim, Norway, 23–25 May 2007.
59. **Program Chair**, *33rd International Conference on Current Trends in Theory and Practice of Computer Science*, (SOFSEM 07), Track “Foundations of Computer Science”, Harrachov, Czech Republic, January 20–26, 2007.
60. *25th Int. Conference on Foundations of Software Technology and Theoretical Computer Science* (FSTTCS 06), Calcutta, India, 13–15 December 2006.
61. *2nd Int. Conference on Algorithmic Aspects in Information and Management* (AAIM’06), Hong Kong, 20–22 June 2006.
62. **Program Chair**, *6th Int. Conference on Algorithms and Complexity* (CIAC 06), Rome, Italy, 29–31 May 2006.
63. *IEEE Conf. on Next Generation Internet Networks – Traffic Engineering* (NGI 06), Valencia, Spain, April 2006.
64. **Program Chair**, *32nd International Colloquium on Automata, Languages, and Programming*, (ICALP 05), Track A, Lisbon, Portugal, 11–15 July 2005.
65. *4th Workshop on Efficient and Experimental Algorithms* (WEA 05), Santorini, Greece, May 10–13, 2005.
66. *IEEE Conf. on Next Generation Internet Networks – Traffic Engineering* (NGI 05), Rome, Italy, April 18–20, 2005.
67. *16th ACM-SIAM Symposium on Discrete Algorithms* (SODA 05), Vancouver, Canada, January 23–35, 2005.
68. *45th IEEE Symposium on Foundations of Computer Science*, (FOCS 04), Rome, Italy, 17–19 October 2004.
69. *12th European Symposium on Algorithms*, (ESA 2004), Engineering and Application Track, Bergen, Norway, September 13–18 2004.
70. *31st International Colloquium on Automata, Languages, and Programming*, (ICALP 04), Turku, Finland, July 2004.
71. **Program Co-Chair**, *6th Workshop on Algorithm Engineering and Experimentation* (ALENEX 04) New Orleans, LA, January 2004.
72. *8th Workshop on Algorithms and Data Structures* (WADS 2003), Carleton, Canada, July 30 - August 1, 2003.
73. *8th Scandinavian Workshop on Algorithm Theory* (SWAT 2002), Turku, Finland, 3–5 July 2002.
74. *7th Italian Conference on Theoretical Computer Science* (ICTCS 2001), Torino, Italy, 4–6 October 2001.
75. *5th International Workshop on Discrete Algorithms and Methods for Mobile Computing and Communication* (DIALM 2001), Rome Italy, 26 July 2001.
76. *28th International Colloquium on Automata, Languages, and Programming* (ICALP 01), Crete, Greece, 8–12 July 2001.
77. *11th Annual International Symposium on Algorithms and Computation* (ISAAC 2000), Academia Sinica, Taiwan, 18–20 December 2000.
78. *4th Italian Conference on Algorithms and Complexity* (CIAC 2000), Rome, Italy, 1–2 March 2000.
79. *3rd Workshop on Algorithm Engineering* (WAE 99), London, UK, 19–21 July 1999.
80. *7th European Symposium on Algorithms* (ESA 99), Prague, Czech Republic, July 1999.

81. 1st Workshop on Algorithm Engineering and Experimentation (ALENEX 99) Baltimore, MD, January 15-16, 1999.
82. 6th Italian Conference on Theoretical Computer Science (ICTCS 98), Prato, Italy, 9–11 November 1998.
83. **Program Co-Chair**, *6th European Symposium on Algorithms* (ESA 98), Venice, Italy, 24–26 August 1998.
84. Electronic commerce for Small and Medium Enterprises (CABOTO 98), Venice, Italy, 26–27 February 1998.
85. 15th Symposium on Theoretical Aspects of Computer Science (STACS 98), Paris, France, 25–27 February 1998.
86. **Program Chair**, *1st Workshop on Algorithm Engineering* (WAE 97), Venice, Italy, 11–13 September 1997.
87. 5th Israeli Symposium on Theory of Computing and Systems (ISTCS 97), Ramat-Gan, Israel, 17–19 June 1997.
88. 3rd Italian Conference on Algorithms and Complexity (CIAC 97), Rome, Italy, 12–14 March 1997.
89. 3rd European Symposium on Algorithms (ESA 95), Corfu, Greece, 25-27 September 1995.
90. 4th Scandinavian Workshop on Algorithm Theory (SWAT 94), Aarhus, Denmark, 7-9 July 1994.

Organizing Committee Chair

1. *45th Annual Symposium on Foundations of Computer Science* (FOCS 2004), Rome, Italy, October 2004.
2. 6th European Symposium on Algorithms (ESA 98), Venice, Italy, 24–26 August 1998.

Other Workshops and Schools Organized

1. 8th Workshop on “Algorithm and Data Structures”, June 9-14, 2019, Bertinoro, Italy. Co-organized with Andrew Goldberg, Valerie King, Robert E. Tarjan.
2. 8th Workshop on “Algorithm and Data Structures”, June 12-16, 2017, Bertinoro, Italy. Co-organized with Andrew Goldberg, Valerie King, Robert E. Tarjan.
3. “School on Graph Theory, Algorithms and Applications”, Center “Ettore Majorana” for Scientific Culture, Erice (Italy), 5–13 May 2017. Co-organized with Raffaele Cerulli, Andrew Goldberg, Robert E. Tarjan.
4. Dagstuhl Seminar on “Geometric and Graph-based Approaches to Collective Motion”, Workshop, Schloß Dagstuhl, Germany, January 10-15, 2016. (Co-organized with Bettina Speckmann, Guy Theraulaz and Mark van Kreveld).
5. “School on Graph Theory, Algorithms and Applications”, Center “Ettore Majorana” for Scientific Culture, Erice (Italy), 8 –16 September 2014. Co-organized with Raffaele Cerulli, Andrew Goldberg, Robert E. Tarjan.
6. “Horn formulas, directed hypergraphs, lattices and closure systems: related formalisms and applications”, Workshop, Schloß Dagstuhl, Germany, May 11-16, 2014. Co-organized with Kira Adaricheva, Hans Kleine Büning, György Turan.
7. “Algorithm Engineering”, Workshop, Schloß Dagstuhl, Germany, September 23–27, 2013. Co-organized with Andrew Goldberg, David S. Johnson, Dorothea Wagner.
8. 6th Workshop on “Algorithm and Data Structures”, June 2-7, 2013, Bertinoro, Italy. Co-organized with Andrew Goldberg, Valerie King, Robert E. Tarjan.
9. “School on Graph Theory, Algorithms and Applications”, Center “Ettore Majorana” for Scientific Culture, Erice (Italy), 25 September – 3 October, 2011. Co-organized with Raffaele Cerulli, Andrew Goldberg, Kurt Mehlhorn, Robert E. Tarjan.
10. “Algorithm Engineering”, Workshop, Schloß Dagstuhl, Germany, June 27 – July 2, 2010 Co-organized with David S. Johnson, Petra Mutzel, Peter Sanders.

11. 4th Workshop on “Algorithm and Data Structures”, June 7–12, 2009, Bertinoro, Italy. Co-organized with Andrew Goldberg, Valerie King, Robert E. Tarjan.
12. “School on Graph Theory, Algorithms and Applications”, Center “Ettore Majorana” for Scientific Culture, Erice (Italy), 8–16 September, 2008. Co-organized with Raffaele Cerulli, Andrew Goldberg, Robert E. Tarjan.
13. “Algorithm Engineering”, Mathematisches Forschungsinstitut Oberwolfach (Germany), 6–12 May 2007 (Oberwolfach Workshop). Co-organized with Petra Mutzel, Peter Sanders, Martin Skutella.
14. 2nd Workshop on “Algorithm and Data Structures”, May 29 - June 4, 2005, Bertinoro, Italy. Co-organized with Andrew Goldberg.
15. Workshop on “Algorithm and Data Structures”, June 23–28, 2003, Bertinoro, Italy. Co-organized with Camil Demetrescu.
16. “Summer School on Algorithm Engineering”, Rome, Italy, September 10–12, 2001 Co-organized with Giovanni Rinaldi.
17. “Efficient Algorithms”, Mathematisches Forschungsinstitut Oberwolfach (Germany), 6–12 August 2000 (Oberwolfach Workshop). Co-organized with Susanne Albers, Torben Hagerup, Kurt Mehlhorn

PH.D. STUDENTS

Graduated

- | | |
|------|---|
| 2001 | Camil Demetrescu, “Fully Dynamic Algorithms for Path Problems on Directed Graphs”. Now Full Professor at “Sapienza” University of Rome. |
| 2003 | Gianluigi Me, “Mobile transactions security”. Now Lieutenant Colonel in the Italian Carabinieri police. |
| 2004 | Fabrizio Grandoni, “Exact Algorithms for Hard Graph Problems”. Now Senior Researcher at IDSIA, University of Lugano, Switzerland. |
| 2006 | Maurizio A. Strangio, “Two-Party Cryptographic Protocols for Authentication and Key Agreement with Applications to Mobile Computing”. Now Lieutenant Colonel in the Italian Carabinieri police. |
| 2009 | Fabio Dellutri, “Profiling Mobile Identities”. Now CEO and Co-Founder at Miowelfare. |
| 2011 | Antonio Grillo, “Trasferring Identities to Mobile Devices (TIMiD)”. Now Digital Area Managing Director at Mashfrog Group. |
| 2011 | Alessandro Lentini, “TUBA: Total User Behavioural Authentication”. Now CEO and Co-Founder at TrustMyPhone. |
| 2011 | Vittorio Ottaviani “Open BAR - A New Approach to Mobile Backup And Restore”. Now Head Of B2C Digital Solutions and CTO at International Game Technology. |
| 2012 | Rosamaria Bertè. “Triage techniques applied to Digital Forensics”. Now Technical Manager at the Italian Corte dei Conti. |
| 2014 | Marco Querini, “A New System for Securizing Documents Through Their Entire Life Cycle”. Now Senior Manager at SelfieWealth. |
| 2014 | Fabio Marturana, “Device Classification in Digital Forensic Triage”. Now Lieutenant Colonel in the Italian Carabinieri police. |
| 2015 | Federico Santaroni, “Reliability in public transport networks”. Now Co-Founder and CIO at Comehome. |
| 2017 | Giovanni Bottazzi, “Botnets: Threats and Countermeasures”. Now Lieutenant Colonel in the Italian Carabinieri police. |
| 2017 | Nilakantha Paudel, “Graph Algorithms for Analytics and Security”. Now postdoc at Gran Sasso Science Institute (GSSI), L’Aquila. |
| 2019 | Nikos Parotsidis, “Connectivity in Directed Graphs: Static and Dynamic”. Now Research Software Engineer at Google Zurich. |

- 2019 Leandro Ishi Soares De Lima (coadvised with Marie-Frances Sagot, Université Claude Bernard Lyon 1), “De novo algorithms to identify patterns associated with biological events in de Bruijn graphs built from NGS data”. Now Scientific Software Developer at the European Bioinformatics Institute.
- 2020 Aikaterini Karanasiou, “Robustness in Directed Graphs”.

Current

- 2019– Luca Pepé Sciarria, expected 2023.
- 2019– Konstantinos Giannis, expected 2023.

Member of Ph.D. Theses Committees

- 2018 “Digraph Reachability Algorithms”, Daniel Wolled-Graf, ETH Zurich, Switzerland.
- 2017 “New Results on Hashing, Labeling Schemes and Algorithms ”, Mathias Baek Tejs Knudsen, University of Copenhagen Denmark.
- 2015 “Algorithms for computing the 2-vertex-connected components and the 2-blocks of directed graphs”, Raed Jaberi, Technische Universität Ilmenau, Germany.
- 2015 “Faster Approximation Algorithms for Partially Dynamic Shortest Paths Problems”, Sebastian Krinninger, University of Vienna, Austria.
- 2015 “Dynamic Graph Algorithms for Connectivity Problems”, Jakub Łacki, University of Warsaw, Poland.
- 2015 “Algorithms and Data Structures for Strings, Points and Integers”, Søren Juhl Vind, Technical University of Denmark, Denmark.
- 2013 “Engineering Shortest-Path Algorithms for Dynamic Networks”, Mattia D’Emidio, University of L’Aquila, Italy.
- 2012 “Complex Networks: Algorithms, Analysis and Models”, Leonardo Lanzi, University of Florence, Italy.
- 2011 “Engineering Algorithms for Solving Geometric and Graph Problems on Large Data Sets”, Adan Cosgaya Lozano, Dalhousie University, Halifax, Nova Scotia, Canada.
- 2010 “Data Structures Libraries”, Leonor Frias, Universitat Politècnica de Catalunya, Barcelona, Spain.
- 2008 “Streaming Algorithms for Graph Problems” Andrea Ribichini, Department of Computer and System Science, University of Rome “La Sapienza”, Italy.
- 2007 “Contraintes de Partitionnement de Graphs”, Xavier Lorca, Ecole Nationale Supérieure des Techniques Industrielles et des Mines de Nantes, Nantes, France.
- 2007 “Hardware-Aware Algorithms and Data Structures”, Gabriel Moruz, BRICS, Department of Computer Science, University of Aarhus, Denmark.
- 2006 “Dynamic and Static Graph Algorithms”, Liam Roditty, School of Computer Science, Tel Aviv University, Israel.
- 2005 “Experimental Analysis of Graph Algorithms”, Pompeo Faruolo, Department of Computer Science, University of Salerno, Italy.
- 2000 “Tracking Causality in Distributed Computations”, Giovanna Melideo, Department of Computer and System Science, University of Rome “La Sapienza”, Italy.
- 1999 “Computing with Trees”, Stephen Alstrup, Department of Computer Science, University of Copenhagen, Denmark.
- 1997 “Designing Efficient Parallel Algorithms of Graph Problems”, Weifa Liang, Department of Computer Science, Australian National University, Australia.
- 1997 “Dynamic computation”, Thore Husfeldt, Department of Computer Science, University of Aarhus, Denmark.
- 1997 “Does the cubicity help to solve problems?”, Tiziana Calamoneri, Department of Computer Science, University of Rome “La Sapienza”, Italy.

Member of Habilitation Committees

1998 Dr. Karsten Weihe, Faculty of Mathematics and Computer Science, University of Konstanz, Germany.

TEACHING

Undergraduate (Bachelor) Courses

- “Artificial Intelligence and Machine Learning”, Bachelor in Management and Computer Science, LUISS – Libera Università Internazionale degli Studi Sociali Guido Carli, 2020-21.
- “Algorithms”, Bachelor in Management and Computer Science, LUISS – Libera Università Internazionale degli Studi Sociali Guido Carli, 2018-19, 2019-20.
- “Algorithm Engineering” (“Ingegneria degli Algoritmi”), Laurea in Ingegneria Informatica, Università di Roma “Tor Vergata”, 2008-09, 2009-10, 2010-11, 2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-17, 2017-18.
- “Introduction to Computer Science” (“Informatica”), Laurea in Economia e Management, LUISS – Libera Università Internazionale degli Studi Sociali Guido Carli, 2012-13, 2013-14, 2014-15, 2015-16, 2016-17, 2017-18.
- “Algorithms, Data and Security”, B.A. in Global Governance, Università di Roma “Tor Vergata”, 2017-18.
- “Algorithms and Data Structures” (“Algoritmi e Strutture Dati”), Laurea in Ingegneria Informatica, Università di Roma “Tor Vergata”, 2002-03, 2003-04, 2004-05, 2005-06, 2006-07, 2007-08.
- “Introduction to Computer Programming” (“Fondamenti di Informatica I”), Laurea in Ingegneria Informatica, Università di Roma “Tor Vergata”, 1998-99, 1999-2000, 2000-01, 2001-02.
- “COMS W4231 Analysis of Algorithms I”, Department of Computer Science, Columbia University, 2000-01.
- “Introduction to Computer Science” (“Informatica 2”), Laurea in Ingegneria Civile, Università di Roma “Tor Vergata”, 2000-01.
- “Introduction to Databases” (“Basi di Dati”), Laurea in Ingegneria Informatica, Università di Roma “Tor Vergata”, 1999-00.
- “Algorithms and Data Structures” (“Algoritmi e Strutture Dati”), Laurea in Informatica, Università “Ca’ Foscari” di Venezia, 1997-98.
- “Algorithms and Data Structures Lab” (“Laboratorio di Algoritmi e Strutture Dati”), Laurea in Informatica, Università “Ca’ Foscari” di Venezia, 1997-98.
- “Computer Architecture” (“Architettura degli Elaboratori I”), Laurea in Informatica, Università “Ca’ Foscari” di Venezia, 1995-96, 1996-97.
- “Computer Architecture Lab” (“Laboratorio di Architettura degli Elaboratori I”), Laurea in Informatica, Università “Ca’ Foscari” di Venezia, 1995-96, 1996-97.
- “Computer Architecture” (“Architettura degli Elaboratori I”), Laurea in Informatica, Università degli Studi di Salerno, 1994-95, 1995-96.
- “Introduction to Computer Programming” (“Fondamenti di Informatica II”), Diploma in Ingegneria Informatica ed Automatica, Università degli Studi di Roma “La Sapienza”, 1993-94, 1994-95.
- “W1003-02 Introduction to Computer Programming”, Department of Computer Science, Columbia University, New York, U.S.A., 1988-89.
- “S3131 Data Structures”, Department of Computer Science, Columbia University, New York, U.S.A., 1987-88.

Graduate (Master) Courses

- “Machine Learning”, Master in Big Data and Management, LUISS Business School – Libera Università Internazionale degli Studi Sociali Guido Carli, 2018-19, 2019-20.

- “Customer Intelligence and Big Data”, Master in Marketing, LUISS – Libera Università Internazionale degli Studi Sociali Guido Carli, 2018-19, 2019-20, 2020-21.
- “Applications of Hashing and Cryptography”, Master and Executive Program in Cyberscience, LUISS – Libera Università Internazionale degli Studi Sociali Guido Carli, 2018-19.
- “Business Analytics”, Executive Master in Business Administration, LUISS Business School – Libera Università Internazionale degli Studi Sociali Guido Carli, 2018-19, 2020-21.
- “Data Management for Tourists”, Master in Tourism Management, LUISS Business School – Libera Università Internazionale degli Studi Sociali Guido Carli, 2018-19.
- “Introduction to Cybersecurity - Cryptography and Blockchain”, Master in Cybersecurity, LUISS School of Government, 2017-18, 2018-19, 2019-20.
- “Web Algorithms” (“Algoritmi per il Web”), Laurea Magistrale in Ingegneria Informatica, Università di Roma “Tor Vergata”, 2013-14, 2014-15, 2015-16, 2016-17, 2017-18.
- “Customer Intelligence e Logiche di Analisi dei Big Data”, Laurea Magistrale in Marketing, LUISS – Libera Università Internazionale degli Studi Sociali Guido Carli, 2017-18.
- “Computer and Internet Security” (“Sicurezza informatica e Internet”), Laurea Magistrale in Ingegneria Informatica, Università di Roma “Tor Vergata”, 2011-12, 2012-13, 2013-14, 2014-15, 2015-16.
- “Computer and Network Security” (“Sicurezza nei sistemi informatici”), Laurea Specialistica/Magistrale in Ingegneria Informatica, Università di Roma “Tor Vergata”, 2000-01, 2001-02, 2002-03, 2003-04, 2004-05, 2005-06, 2007-08, 2008-09, 2009-10, 2010-11.
- “Distributed Databases” (“Basi di Dati Distribuite”), Laurea Specialistica in Ingegneria Informatica, Università di Roma “Tor Vergata”, 2000-01, 2001-02, 2002-03.

Postgraduate (PhD) Courses

- “Dynamic Graph Algorithms”, Gran Sasso Science Institute, L’Aquila, Italy (10 hours), 2015-16.
- “Dynamic Graph Algorithms”, Institute of Informatics, University of Warsaw, Poland (10 hours), 2015-16.
- “COMP670: Advanced Graph Algorithms”, Department of Computer Science, Hong Kong University of Science & Technology, Hong Kong (30 hours), 1997-98.
- “Network Security” Max-Planck-Institut für Informatik. Saarbrücken, Germany (10 hours), 1996-97.
- “Network Security” (“Sicurezza su reti”), Dottorato di Ricerca in Informatica, Università degli Studi di Bologna, Padova e Venezia (20 hours), 1996-97.
- “Algorithm Engineering (“Ingegneria degli Algoritmi”), Scuola Nazionale dei Dottorati di Ricerca in Ingegneria Informatica ed Informatica (10 hours), 1996-97.
- “Randomized algorithms” (“Algoritmi randomizzati”), Dottorato di Ricerca in Informatica, Università degli Studi di Bologna, Padova e Venezia (20 hours), 1995-96.
- “Randomized algorithms” (“Algoritmi randomizzati”), Dottorati di Ricerca in Ingegneria Informatica ed Informatica, Università degli Studi di Roma “La Sapienza” (20 hours), 1995-96.
- “Dynamic Graph Algorithms”, Department of Computer Science, Aarhus Universitet, Denmark (10 hours), 1994-95.
- “Dynamic Graph Algorithms”, Department of Computer Science, University of Copenhagen, Denmark (10 hours), 1994-95.
- “Combinatorial algorithms” (“Algoritmi per problemi combinatori”), Dottorati di Ricerca in Ingegneria Informatica ed Informatica, Università degli Studi di Roma “La Sapienza” (20 hours), 1993-94.
- “Graph algorithms” (“Algoritmi per grafi”), Dottorato di Ricerca in Matematica Computazionale, Università degli Studi di Padova (20 hours), 1992-93.
- “Combinatorial algorithms” (“Algoritmi per problemi combinatori”), Dottorato di Ricerca in Informatica, Università degli Studi di Pisa (20 hours), 1992-93.

EVALUATOR/REVIEWER FOR FUNDING AGENCIES

European Union under FP7-ICT-2011 and FP6-IST-2007

US National Science Foundation (NSF)

Danish Council for Independent Research (DFR)

Danish Research Councils

Fund for Scientific Research (FNRS), Belgium

Israel Science Foundation (ISF)

Natural Sciences and Engineering Research Council of Canada (NSERC)

Research Grants Council of Hong Kong (RGC)

TALKS AND SEMINARS

Some universities and research institutions in which I have given talks (most of them more than once):

AT&T Bell Labs, Brooklyn Polytechnic, Brown University, Columbia University, Cornell University, ETH Zurich, Hong Kong University of Science and Technology, IASI-CNR Rome, IBM ECSEC Rome, IBM T.J. Watson Research Center, Max-Planck Institute für Informatik, Polytechnic of Milan, Seoul National University, Universität Bonn, Universität des Saarlandes, University of Aarhus, University of California at Santa Barbara, University of Copenhagen, University of Illinois at Chicago, University of L'Aquila, University of Maryland, University of Padova, University of Palermo, Université Paris-Dauphine, Université Paris Diderot, University of Pisa, University of Rochester, University of Rome "La Sapienza", University of Salerno, University of Sao Paulo, University of Trento, Yale University, Warsaw University.

PUBLICATIONS LIST

Books and Conference Proceedings

- [1] M. Naldi, G. F. Italiano, K. Rannenberg, M. Medina, A. Bourka (Eds.): *Privacy Technologies and Policy - 7th Annual Privacy Forum*, APF 2019, Rome, Italy, June 13-14, 2019, Proceedings. *Lecture Notes in Computer Science 11498*, Springer 2019, ISBN 978-3-030-21751-8.
- [2] G. F. Italiano, M. Schmidt (Eds.): *15th Workshop on Algorithmic Approaches for Transportation Modelling, Optimization, and Systems*, ATMOS 2015, September 17, 2015, Patras, Greece. OASICS 48, Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik 2015, ISBN 978-3-939897-99-6.
- [3] G. F. Italiano, G. Pighizzini, D. Sannella (Eds.): *Mathematical Foundations of Computer Science 2015 - 40th International Symposium*, MFCS 2015, Milan, Italy, August 24-28, 2015, Proceedings, Part I. *Lecture Notes in Computer Science 9234*, Springer 2015, ISBN 978-3-662-48056-4.
- [4] G. F. Italiano, G. Pighizzini, D. Sannella (Eds.): *Mathematical Foundations of Computer Science 2015 - 40th International Symposium*, MFCS 2015, Milan, Italy, August 24-28, 2015, Proceedings, Part II. *Lecture Notes in Computer Science 9235*, Springer 2015, ISBN 978-3-662-48053-3
- [5] G. F. Italiano, T. Margaria-Steffen, J. Pokorný, J.-J. Quisquater, R. Wattenhofer (Eds.): *SOFSEM 2015: 41st International Conference on Current Trends in Theory and Practice of Computer Science*, Proceedings, vol. 1. *Lecture Notes in Computer Science vol. 8939*, Springer 2015.
- [6] G. F. Italiano, T. Margaria-Steffen, J. Pokorný, J.-J. Quisquater, R. Wattenhofer, R. Spanek, M. Rimnac (Eds.): *SOFSEM 2015: 41st International Conference on Current Trends in Theory and Practice of Computer Science*, vol. 2, Proceedings of Student Research Forum Papers and Posters, CEUR Workshop Proceedings 1326, CEUR-WS.org 2015
- [7] H. L. Bodlaender, G. F. Italiano (Eds.): *Algorithms - ESA 2013 - 21st Annual European Symposium*, Sophia Antipolis, France, September 2-4, 2013. Proceedings. *Lecture Notes in Computer Science vol. 8125*, Springer 2013.
- [8] P. van Emde Boas, F. C. A. Groen, G. F. Italiano, J. Nawrocki, H. Sack (Eds.) *SOFSEM 2013: Theory and Practice of Computer Science*, Proceedings, vol. 1. *Lecture Notes in Computer Science vol. 7741*, Springer 2012.
- [9] P. van Emde Boas, F. C. A. Groen, G. F. Italiano, J. Nawrocki, H. Sack (Eds.) *SOFSEM 2013: Theory and Practice of Computer Science*, Proceedings, vol. 2. Institute of Computer Science AS CR, Prague 2013, ISBN 978-80-87136-15-7.
- [10] J. van Leeuwen, G. F. Italiano, W. van der Hoek, C. Meinel, H. Sack, F. Plásil (Eds.) *Theory and Practice of Computer Science*, Proceedings, vol. 1. *Lecture Notes in Computer Science vol. 4362*, Springer-Verlag 2007.
- [11] J. van Leeuwen, G. F. Italiano, W. van der Hoek, C. Meinel, H. Sack, F. Plásil (Eds.) *Theory and Practice of Computer Science*, Proceedings, vol. 2. Institute of Computer Science AS CR, Prague 2007, ISBN 80-903298-9-6.
- [12] G. F. Italiano, E. Moggi, L. Laura (Eds.) *Theoretical Computer Science, 10th Italian Conference*, Proceedings, World Scientific 2007.
- [13] C. Demetrescu, U. Ferraro Petrillo, I. Finocchi e G. F. Italiano. *Progetto di Algoritmi e Strutture Dati in Java*. ISBN 978-88-386-6374-1. McGraw-Hill, 2007 (in Italian).
- [14] T. Calamoneri, I. Finocchi, G. F. Italiano (Eds.) *Algorithms and Complexity*, Proceedings. *Lecture Notes in Computer Science vol. 3998*, Springer-Verlag 2006.
- [15] L. Caires, G. F. Italiano, L. Monteiro, C. Palamidessi, M. Yung (Eds.) *Automata, Languages and Programming*, Proceedings. *Lecture Notes in Computer Science vol. 3580*, Springer-Verlag 2005.
- [16] C. Demetrescu, I. Finocchi e G. F. Italiano. *Algoritmi e Strutture Dati*. ISBN 88-386-6161-8. McGraw-Hill, 2004 (in Italian).
- [17] L. Arge, G. F. Italiano, R. Sedgewick, *6th Workshop on Algorithm Engineering and Experimentation and 1st Workshop on Analytic Algorithmics and Combinatorics*, SIAM Proceedings, 2004.

- [18] G. Bilardi, G. F. Italiano, A. Pietracaprina, G. Pucci (Eds.) *Algorithms – ESA ’98*, Proceedings. *Lecture Notes in Computer Science vol. 1461*, Springer-Verlag 1998.
- [19] G. F. Italiano, S. Orlando, *Algorithm Engineering: WAE ’97*, Proceedings, 1997.

Journal Special Issues

- [20] G. Fici, G. F. Italiano. *Special issue in memoriam Danny Breslauer*, *Theoretical Computer Science* vol. 812, 2020.
- [21] K. Adaricheva, H. K. Büning, G. F. Italiano, G. Turan. *Special issue on “Horn Formulas, Directed Hypergraphs, Lattices and Closure Systems: related formalisms and applications”*, *Theoretical Computer Science* vol. 658 (263), 2017.
- [22] H. L. Bodlaender, M. T. Hajiaghayi, G. F. Italiano, *Special issue on the 21st Annual European Symposium on Algorithms*, *Algorithmica* vol. 73(4), 2015.
- [23] G. F. Italiano, R. Petreschi, *Special issue on the 6th Int. Conf. on Algorithms and Complexity*, *Journal of Discrete Algorithms*, vol. 7(3), 2009.
- [24] G. F. Italiano, C. Palamidessi, *Special issue on the 32nd Int. Coll. on Automata, Languages and Programming*, *Theoretical Computer Science*, vol. 380, 1–2 (2007).
- [25] L. Arge, G. F. Italiano, *Special issue on the 6th Workshop on Algorithm Engineering and Experimentation*, *ACM Journal on Experimental Algorithmics* vol. 12, 2007.
- [26] G. F. Italiano, A. Marchetti-Spaccamela, *Special Issue in honour of Giorgio Ausiello*, *Journal of Discrete Algorithms*, vol. 4 (3), September 2006.
- [27] G. Bilardi, G. F. Italiano, *Special issue on the 6th European Symposium on Algorithms*, *Journal of Algorithms*, 49, 1 (2003).
- [28] G. F. Italiano, *Special issue on Algorithm Engineering*, *Algorithmica* 30, 4 (2001).
- [29] D. Eppstein, G. F. Italiano, *Festschrift for Zvi Galil*, *Journal on Complexity* 15 (1999).
- [30] A. Goldberg, G. F. Italiano, *Special issue on the Workshop on Algorithm Engineering 1997*, *ACM Journal on Experimental Algorithmics* 3 (1998),
- [31] G. Ausiello, G. F. Italiano, *Special issue on Dynamic and On-line Algorithms*, *Theoretical Computer Science* 130 (1), 1994.

Journal Publications

- [32] L. Georgiadis, G. F. Italiano, N. Parotsidis, “Strong Connectivity in Directed Graphs under Failures, with Applications”, *SIAM Journal on Computing*, vol. 49 (5), 865–926 (2020).
- [33] J. Cohen, G. F. Italiano, Y. Manoussakis, K. T. Nguyen and H. P. Pham, “Tropical paths in vertex-colored graphs”, *Journal of Combinatorial Optimization*, to appear.
- [34] V. Acuña, R. Grossi, G. F. Italiano, L. Lima, R. Rizzi, G. Sacomoto, M.-F. Sagot, B. Sinimeri, “On bubble generators in directed graphs”, *Algorithmica*, vol. 82(4), 898–914 (2020).
- [35] L. Georgiadis, G. F. Italiano, A. Karanasiou, “Approximating the smallest 2-vertex connected spanning subgraph of a directed graph”, *Theoretical Computer Science*, to appear. vol. 807, 185–200, 2020.
- [36] S. Bhattacharya, M. Henzinger, G. F. Italiano, “Deterministic fully dynamic data structures for vertex cover and matching”, *SIAM Journal on Computing*, vol. 47(3), 859–887, 2018.
- [37] S. Bhattacharya, M. Henzinger, G. F. Italiano, “Design of Dynamic Algorithms via Primal-Dual Schema”, *Information and Computation*, special issue of ICALP 2015, vol. 261, 219–239, 2018.
- [38] L. Georgiadis, G. F. Italiano, L. Laura, N. Parotsidis, “2-Vertex Connectivity in Directed Graphs”, *Information and Computation*, special issue of ICALP 2015, vol. 261, 248–264, 2018.
- [39] L. Georgiadis, G. F. Italiano, A. Karanasiou, C. Papadopoulos, N. Parotsidis, “Sparse certificates for 2-connectivity in directed graphs”, *Theoretical Computer Science*, vol. 698, 40–66, 2017.
- [40] L. Georgiadis, G. F. Italiano, L. Laura, N. Parotsidis, “2-Edge Connectivity in Directed Graphs”, *ACM Trans. Algorithms*, vol. 13 (1): 9, 2016.

- [41] G. Ausiello, P. G. Franciosa, G. F. Italiano, A. Ribichini, "On Resilient Graph Spanners", *Algorithmica*, vol. 74 (4), 1363–1385, 2016.
- [42] D. Firmani, L. Georgiadis, G. F. Italiano, L. Laura, F. Santaroni, "Strong Articulation Points and Strong Bridges in Large Scale Graphs", *Algorithmica*, vol. 74 (3), 1123–1147, 2016.
- [43] M. Querini, M. Gattelli, V. M. Gentile, G. F. Italiano, "A New System for Secure Handwritten Signing of Documents", *International Journal of Computer Science and Applications*, vol. 12(2), 37–56, 2015.
- [44] M. Querini, G. F. Italiano, "Reliability and Data Density in High Capacity Color Barcodes", *Computer Science and Information Systems*, vol. 11(4):1595–1615, 2014.
- [45] S. Salcedo-Sanz, M. Naldi, L. Carro-Calvo, L. Laura, A. Portilla-Figueras, G. F. Italiano, "A Traffic-based Evolutionary Algorithm for Network Clustering", *Applied Soft Computing*, vol. 13(11), 4303–4319, 2013.
- [46] M. Querini, G. F. Italiano, "Facial Recognition with 2D Color Barcodes", *Computer Science and Information Systems*, vol. 10(1):78–97, 2013.
- [47] U. Ferraro Petrillo, F. Grandoni, G. F. Italiano, "Data Structures Resilient to Memory Faults: An Experimental Study of Dictionaries", *ACM Journal on Experimental Algorithmics* vol. 18, 2013. Special Issue of SEA 2010.
- [48] D. Breslauer, G. F. Italiano, "Near Real-Time Suffix Tree Construction via the Fringe Marked Ancestor Problem", *Journal of Discrete Algorithms*, vol. 18, 32–48, 2013. Special Issue of SPIRE 2011.
- [49] N. Apollonio, M. Caramia, G. F. Italiano, "On a Facility Location Problem with Applications to Telediagnosics", *Optimization Letters* 7(6), 1179–1192, 2013.
- [50] D. Breslauer, G. F. Italiano, "On Suffix Extensions in Suffix Trees", *Theoretical Computer Science*, vol. 457, 27–34, 2012.
- [51] G. F. Italiano, L. Laura, F. Santaroni, "Finding strong bridges and strong articulation points in linear time", *Theoretical Computer Science*, vol. 447, 74–84, 2012. Special Issue of COCOA'10.
- [52] M. Querini, A. Grillo, G. F. Italiano, A. Lentini, "2D Color Barcodes for Mobile Phones", *International Journal of Computer Science & Applications*, Special issue on Multimedia - Applications, vol. 8, Issue 1, 136–155, 2011.
- [53] G. Cattaneo, P. Faruolo, U. Ferraro Petrillo, G. F. Italiano, "Maintaining Dynamic Minimum Spanning Trees: An Experimental Study", *Discrete Applied Mathematics*, vol. 158, no. 5, 404–425, 2010.
- [54] M. Naldi, G. D'Acquisto, G. F. Italiano, "The value of location in keyword auctions", *Electronic Commerce Research and Applications*, vol. 9, 160–170, 2010. ¹
- [55] G. Ausiello, P. G. Franciosa, G. F. Italiano, A. Ribichini, "Computing Graph Spanners in Small Memory: Fault-Tolerance and Streaming", *Discrete Mathematics, Algorithms and Applications*, vol. 2, no. 4 (2010) 591–605.
- [56] I. Finocchi, F. Grandoni, G. F. Italiano, "Resilient Dictionaries", *ACM Transactions on Algorithms*, vol. 6, no. 1, 1–19, 2009.
- [57] I. Finocchi, F. Grandoni, G. F. Italiano, "Optimal Resilient Sorting and Searching in the presence of Memory Faults", *Theoretical Computer Science*, Special Issue of ICALP'06, vol. 410, no. 44, 4457–4470, 2009.
- [58] G. Ausiello, P. G. Franciosa, G. F. Italiano, "Small stretch (α, β) -spanners in the streaming model", *Theoretical Computer Science*, vol. 410, no. 36, 3406–3413, 2009.
- [59] U. Ferraro Petrillo, I. Finocchi, G. F. Italiano, "The Price of Resiliency: A Case Study on Sorting with Memory Faults", *Algorithmica*, vol. 53, no 4, 597–620, 2009.
- [60] G. Ausiello, C. Demetrescu, P. G. Franciosa, G. F. Italiano, A. Ribichini, "Graph Spanners in the Streaming Model: an Experimental Study", *Algorithmica*, vol. 55, no. 2, 346–374, 2009.

¹Paper selected for its quality to the 10th anniversary "virtual special issue" of the journal. A total of 14 papers were selected for this decennial issue.

- [61] I. Finocchi, G. F. Italiano, “Sorting and searching in faulty memories”, *Algorithmica*, vol. 52, no. 3, pp. 309–332, 2008.
- [62] C. Demetrescu, G. F. Italiano, “Maintaining Dynamic Matrices for Fully Dynamic Transitive Closure”, *Algorithmica*, vol. 51, no. 4, pp. 387–427, 2008.
- [63] M. Caramia, P. Dell’Olmo, G. F. Italiano, “Novel Local-Search-Based Approaches to University Examination Timetabling”, *INFORMS Journal on Computing*, vol. 20, no. 1, pp. 86–99, 2008.
- [64] I. Finocchi, F. Grandoni, G. F. Italiano, “Designing Reliable Algorithms in Unreliable Memories”, *Computer Science Review*, vol. 1, no. 2, pp. 77–87, 2007.
- [65] G. Ausiello, P. G. Franciosa, G. F. Italiano, “Small stretch spanners on dynamic graphs”, *Journal of Graph Algorithms and Applications*, vol. 10, no. 2, 365–385, 2006.
- [66] G. F. Italiano, S. Leonardi, G. Oriolo, “Design of trees in the hose model: the balanced case”, *Operations Research Letters*, vol. 34 (6), November 2006, pp. 601–606.
- [67] C. Demetrescu, G. F. Italiano, “Experimental Analysis of Dynamic All Pairs Shortest Path Algorithms” *ACM Transactions on Algorithms* vol. 2 (4), October 2006, 578–601. Special Issue of SODA 2004.
- [68] C. Demetrescu, G. F. Italiano, “Dynamic Shortest Paths and Transitive Closure: Algorithmic Techniques and Data Structures”, *Journal of Discrete Algorithms*, vol. 4 (3), September 2006, pp. 353–383.
- [69] C. Demetrescu, G. F. Italiano, “Fully Dynamic All Pairs Shortest Paths with Real Edge Weights”, *Journal of Computer and System Sciences*, vol. 72 (5) August 2006, 813–837. Special Issue on FOCS 2001.
- [70] M. Caramia, P. Dell’Olmo, G. F. Italiano, “Tuning a local search algorithm for graph coloring”, *Journal of Discrete Algorithms*, vol. 4 (2), June 2006, 277–298.
- [71] C. Demetrescu, G. F. Italiano, “Trade-Offs for Fully Dynamic Transitive Closure on DAGs: Breaking Through the $O(n^2)$ Barrier”, *Journal of the ACM*, vol. 52, no. 2, March 2005, 147–156.
- [72] C. Demetrescu, G. F. Italiano, “A new approach to dynamic all pairs shortest paths”. *Journal of the ACM*, vol. 51, no. 6, November 2004, 968–992.
- [73] C. Demetrescu, I. Finocchi, G. F. Italiano, “Algorithm Engineering”, *Algorithms Column, EATCS Bulletin*, vol. (2003).
- [74] A. Caprara, G. F. Italiano, G. Mohan, A. Panconesi, A. Srinivasan, “Wavelength Rerouting in Optical Networks, or the Venetian Routing Problem”, *J. Algorithms*, vol. 45 (2002), pp. 93–125.
- [75] G. Cattaneo, U. Ferraro Petrillo, G. F. Italiano, “CATAI: Cooperative Algorithm and Data Types Animation over the Internet”, *Journal of Visual Languages & Computing*, Vol. 13, No. 4, Aug 2002, pp. 391–419.
- [76] D. Frigioni, G. F. Italiano, “Dynamically switching vertices in planar graphs”. *Algorithmica*, vol. 28, n. 1, (2000), pp. 76–103.
- [77] A. Vigneron, L. Gao, M. Golin, G. F. Italiano, B. Li, “An algorithm for finding a k -median in a directed tree”, *Information Processing Letters*, vol. 74 (2000), 81–88.
- [78] G. Cattaneo, G. F. Italiano, “Algorithm Engineering”, *ACM Computing Surveys*, vol. 31, issue 3es (1999), Article 3.
- [79] R. Grossi, G. F. Italiano, “Efficient splitting and merging algorithms for order decomposable problems”, *Information and Computation*, vol. 154 (1999), 1–33.
- [80] Z. Galil, G. F. Italiano, N. Sarnak, “Fully dynamic planarity testing with applications”, *Journal of the ACM*, vol. 48 (1999), 28–91.
- [81] D. Eppstein, Z. Galil, G. F. Italiano, T. H. Spencer, “Separator based sparsification II: edge and vertex connectivity”, *SIAM Journal on Computing*, vol. 28 (1999), 341–381.
- [82] G. F. Italiano, R. Ramaswami, “Maintaining spanning trees of small diameter”, *Algorithmica* (1998) 22: 275–304.
- [83] D. Eppstein, Z. Galil, G. F. Italiano, A. Nissenzweig, “Sparsification – A technique for speeding up dynamic graph algorithms”, *Journal of the ACM*, vol. 44 (1997), 669–696.

- [84] D. Alberts, G. Cattaneo, G. F. Italiano, “An empirical study of dynamic graph algorithms”, *ACM Journal on Experimental Algorithmics*, vol. 2 (1997).
- [85] D. Eppstein, Z. Galil, G. F. Italiano, T. H. Spencer, “Separator based sparsification I: planarity testing and minimum spanning trees”, *Journal of Computer and System Science*, Special issue of STOC 93, vol. 52, no. 1 (1996), 3–27.
- [86] D. Giammarresi, G. F. Italiano, “Decremental 2- and 3-connectivity on planar graphs”, *Algorithmica* vol. 16, no. 3 (1996), 263–287.
- [87] A. Apostolico, G. F. Italiano, G. Gambosi, M. Talamo, “The set union problem with unlimited backtracking”, *SIAM Journal on Computing*, vol. 23, no. 1 (1994), 50–70.
- [88] Z. Galil, G. F. Italiano, “Maintaining the 3-edge-connected components of a graph on-line”, *SIAM Journal on Computing*, vol. 22, no. 1 (1993), 11–28.
- [89] Z. Galil, G. F. Italiano, “Fully dynamic algorithms for 2-edge connectivity”, *SIAM Journal on Computing*, vol. 21, no. 6 (1992), 1047–1069.
- [90] D. Eppstein, Z. Galil, R. Giancarlo, G. F. Italiano, “Sparse dynamic programming I : linear cost functions”, *Journal of the ACM*, vol. 39, no. 3 (1992), 519–545.
- [91] D. Eppstein, Z. Galil, R. Giancarlo, G. F. Italiano, “Sparse dynamic programming II : convex and concave cost functions”, *Journal of the ACM*, vol. 39, no. 3 (1992), 546–567.
- [92] G. Ausiello, G. F. Italiano, A. Marchetti Spaccamela, U. Nanni, “On-line computation of minimal and maximal length paths”, *Theoretical Computer Science*, vol. 95, no. 2 (1992), 245–261.
- [93] D. Eppstein, G. F. Italiano, R. Tamassia, R. E. Tarjan, J. Westbrook, M. Yung, “Maintenance of a minimum spanning forest in a dynamic plane graph”, *Journal of Algorithms*, vol. 13, no. 1 (1992), 33–54.
- [94] G. Gambosi, G. F. Italiano, M. Talamo, “The set union problem with dynamic weighted backtracking”, *BIT*, vol. 31, no. 3 (1991), 382–393.
- [95] G. Ausiello, G. F. Italiano, A. Marchetti Spaccamela, U. Nanni, “Incremental algorithms for minimal length paths”, *Journal of Algorithms*, vol. 12, no. 4 (1991), 615–638.
- [96] Z. Galil, G. F. Italiano, “Reducing edge connectivity to vertex connectivity”, *Sigact News*, vol. 22, n. 1 (1991), 57–61.
- [97] Z. Galil, G. F. Italiano, “Data structures and algorithms for disjoint set union problems”, *ACM Computing Surveys*, vol. 23, no. 3 (1991), 319–344.
- [98] Z. Galil, G. F. Italiano, “A note on set union with arbitrary deunions”, *Information Processing Letters*, vol. 37, n. 6 (1991), 331–335.
- [99] G. Ausiello, G. F. Italiano, “On-line algorithms for polynomially solvable satisfiability problems”, *Journal of Logic Programming*, vol. 10, n. 1 (1991), 69–90.
- [100] C. Arbib, G. F. Italiano, A. Panconesi, “Predicting deadlock in store-and-forward networks”, *Networks*, vol. 20, n. 7 (1990), 861–881.
- [101] G. Ausiello, G. F. Italiano, U. Nanni, “Dynamic maintenance of directed hypergraphs”, *Theoretical Computer Science* vol. 72, n. 2–3 (1990), 97–117.
- [102] G. Gambosi, G. F. Italiano, M. Talamo, “Worst-case analysis of the set union problem with extended backtracking”, *Theoretical Computer Science* vol. 68, n. 1 (1989), 57–70.
- [103] G. F. Italiano, “Finding paths and deleting edges in directed acyclic graphs”, *Information Processing Letters* vol. 28, n. 1 (1988), 5–11.
- [104] G. F. Italiano, “Amortized efficiency of a path retrieval data structure”, *Theoretical Computer Science* vol. 48, n. 2–3 (1986), 273–281.

Journal Submissions

- [105] L. Allulli, D. Firmani, G. F. Italiano, L. Laura, F. Santaroni, “Exploiting Real-Time Data in Public Transport Journey Planners: a Case Study”, submitted for publication.

Refereed Encyclopedia and Handbook Chapters

- [106] C. Demetrescu, D. Eppstein, Z. Galil, G. F. Italiano, “Dynamic Graph Algorithms”, Chapter 9, *Algorithms and Theory of Computation Handbook: General Concepts and Techniques*, 2nd Edition (Mikhail J. Atallah and Marina Blanton Eds.), CRC Press, 2009, pp. 9.1–9.28
- [107] G. F. Italiano, R. Raman, “Topics in Data Structures”, Chapter 5, *Algorithms and Theory of Computation Handbook: General Concepts and Techniques*, 2nd Edition (Mikhail J. Atallah and Marina Blanton Eds.), CRC Press, 2009, pp. 5.1–5.29
- [108] C. Demetrescu, G. F. Italiano, “Decremental All-Pairs Shortest Paths”, *Encyclopedia of Algorithms*, (Ming Yang Kao Ed.), Springer, 2008, pp. 244–246.
- [109] C. Demetrescu, G. F. Italiano, “Fully Dynamic All-Pairs Shortest Paths”, *Encyclopedia of Algorithms*, (Ming Yang Kao Ed.), Springer, 2008, pp. 348–350.
- [110] G. F. Italiano, “Fully Dynamic Connectivity”, *Encyclopedia of Algorithms*, (Ming Yang Kao Ed.), Springer, 2008, pp. 351–353.
- [111] G. F. Italiano, “Fully Dynamic Higher Connectivity”, *Encyclopedia of Algorithms*, (Ming Yang Kao Ed.), Springer, 2008, pp. 355–357.
- [112] G. F. Italiano, “Fully Dynamic Higher Connectivity for Planar Graphs”, *Encyclopedia of Algorithms*, (Ming Yang Kao Ed.), Springer, 2008, pp. 357–359.
- [113] G. F. Italiano, “Fully Dynamic Minimum Spanning Trees”, *Encyclopedia of Algorithms*, (Ming Yang Kao Ed.), Springer, 2008, pp. 359–361.
- [114] G. F. Italiano, “Fully Dynamic Planarity Testing”, *Encyclopedia of Algorithms*, (Ming Yang Kao Ed.), Springer, 2008, pp. 361–363.
- [115] C. Demetrescu, G. F. Italiano, “Single-Source Fully Dynamic Reachability”, *Encyclopedia of Algorithms*, (Ming Yang Kao Ed.), Springer, 2008, pp. 878–879.
- [116] C. Demetrescu, G. F. Italiano, “Trade-offs for Dynamic Graph Problems”, *Encyclopedia of Algorithms*, (Ming Yang Kao Ed.), Springer, 2008, pp. 994–997.
- [117] C. Demetrescu, G. F. Italiano, “Visualization Techniques for Algorithm Engineering”, *Encyclopedia of Algorithms*, (Ming Yang Kao Ed.), Springer, 2008, pp. 1036–1039.
- [118] C. Demetrescu, I. Finocchi, G. F. Italiano, “Dynamic Trees”, Chapter 21, *Handbook of Data Structures and Applications*, (Dinesh P. Mehta and Sartaj Sahni Eds.), CRC Press, 2004.
- [119] C. Demetrescu, I. Finocchi, G. F. Italiano, “Dynamic Graphs”, Chapter 22, *Handbook of Data Structures and Applications*, (Dinesh P. Mehta and Sartaj Sahni Eds.), CRC Press, 2004.
- [120] C. Demetrescu, I. Finocchi, G. F. Italiano, “Dynamic Graphs”, Chapter 10.2, *Handbook of Graph Theory*, (Jonathan Gross and Jay Yellen Eds.), CRC Press, 2003, 985–1014.
- [121] G. F. Italiano, R. Raman, “Topics in data structures”, Chapter 5, *Algorithms and Theory of Computation Handbook*, (Mikhail J. Atallah Ed.), CRC Press, 1999.
- [122] D. Eppstein, Z. Galil, G. F. Italiano, “Dynamic graph algorithms”, Chapter 8, *Algorithms and Theory of Computation Handbook*, (Mikhail J. Atallah Ed.), CRC Press, 1999.
- [123] A. Apostolico, G. F. Italiano, “Backtracking”, *Wiley Encyclopedia of Electrical and Electronics Engineering*, John Wiley & Sons, vol. 2, 1999, 187–197.

Refereed Book Chapters

- [124] C. Demetrescu, G. F. Italiano, “The Quest for the Shortest Route”, *The Power of Algorithms – Inspirations and Examples in Everyday Life*, Springer, 2013. G. Ausiello, R. Petreschi Eds.
- [125] F. Marturana, S. Tacconi, G. F. Italiano, “A Machine Learning-based approach to Digital Triage. In Handbook of Digital Forensics of Multimedia Data and Devices”, Anthony T.S. Ho and Shujun Li editors, John Wiley & Sons, Inc., ISBN 978-1-1186-4050-0, 2014.
- [126] F. Marturana, S. Tacconi, G. F. Italiano, “A Forensic-as-a-Service Delivery Platform for Law Enforcement Agencies”, *Cybercrime and Cloud Forensics: Applications for Investigation Processes*, K. Ruan, IGI Global, ISBN 978-1-4666-2662-1, 2013.

- [127] C. Demetrescu, G. F. Italiano, “La ricerca della via più breve”, *L’informatica invisibile*, Mondadori Sapienza, 2011, pagg. 81–103. G. Ausiello, R. Petreschi Eds. (In Italian).
- [128] C. Demetrescu, I. Finocchi, G. F. Italiano, “Algorithm Engineering”, *Current Trends in Theoretical Computer Science: The Challenge of the New Century*, Vol. 1, Algorithms and Complexity, World Scientific Publ. Co., 2004.
- [129] C. Demetrescu, I. Finocchi, G. F. Italiano, S. Näher, “Tools and Techniques for Algorithm Visualization”, *Experimental Algorithmics – From Algorithm Design to Robust and Efficient Software*, *Lecture Notes in Computer Science* vol. 2547, Springer-Verlag, 2002, pagg. 24–50. R. Fleischer, B. Moret, E.M. Schmidt Eds.
- [130] R. Grossi, G. F. Italiano, “Efficient cross-trees for external memory”, *External Memory Algorithms* (James M. Abello and Jeffrey S. Vitter Eds.), *DIMACS Series in Discrete Mathematics and Theoretical Computer Science* vol. 50, pp. 87–106, American Mathematical Society, 1999.
- [131] D. Eppstein, Z. Galil, R. Giancarlo, G. F. Italiano, “Efficient Algorithms for Sequence Analysis”, *Sequences: Methods in Communications, Security and Computer Science* (R. Capocelli, A. De Santis, U. Vaccaro eds.), Springer-Verlag, Berlin, 1993, pagg. 225–244.

Reviewed Conference Publications

- [132] A. Karczmarz, G. F. Italiano, N. Parotsidis, “Planar Reachability Under Single Vertex or Edge Failures”, *Proc. 32nd ACM-SIAM Symposium on Discrete Algorithms* (SODA 2021), Arlington, Virginia, USA, January 10-13, 2021.
- [133] F. Grandoni, G. F. Italiano, A. Lukasiewicz, N. Parotsidis, P. Uznanski, “All-Pairs LCA in DAGs: Breaking through the $O(n^{2.5})$ barrier”, *Proc. 32nd ACM-SIAM Symposium on Discrete Algorithms* (SODA 2021), Arlington, Virginia, USA, January 10-13, 2021.
SODA
- [134] V. Acuña, G. F. Italiano, L. Lima, M.-F. Sagot, L. Pepè Sciarria, B. Sinaimeri, “A family of tree-based generators for bubbles in directed graphs”, *Proc. 31st International Workshop on Combinatorial Algorithms* (IWOCA 2020), 8–10 June 2020, Bordeaux, France.
- [135] L. Georgiadis, K. Giannis, G. F. Italiano, A. Karanasiou, L. Laura, “Dynamic Dominators and Low-High Orders in DAGs”, *Proc. 27th Annual European Symposium on Algorithms* (ESA 2019), Munich, Germany, September 9-11, 2019, 50:1–18.
- [136] A. Abboud, L. Georgiadis, G. F. Italiano, R. Krauthgamer, N. Parotsidis, O. Trabelsi, P. Uznanski, D. Wolleb-Graf, “Faster Algorithms for All-Pairs Bounded Min-Cuts”, *Proc. 46th International Colloquium on Automata, Languages, and Programming* (ICALP 2019), July 9–12, 2019, Patras, Greece, 7:1-7:15.
- [137] G. F. Italiano, S. Lattanzi, V. S. Mirrokni, N. Parotsidis, “Dynamic Algorithms for the Massively Parallel Computation Model”, *Proc. 31st ACM on Symposium on Parallelism in Algorithms and Architectures* (SPAA 2019), Phoenix, AZ, USA, June 22-24, 2019, 49-58.
- [138] D. Saulpic, N. Hjuler, G. F. Italiano, N. Parotsidis, “Dominating Sets and Connected Dominating Sets in Dynamic Graphs”, *Proc. 36th International Symposium on Theoretical Aspects of Computer Science* (STACS 2019), 35:1–17, Berlin, Germany, March 13–16, 2019.
- [139] J. Holm, G. F. Italiano, A. Karczmarz, J. Łącki, E. Rotenberg, “Decremental SPQR-trees for Planar Graphs”, *Proc. 26th Annual European Symposium on Algorithms* (ESA 2018), 46:1–16, Helsinki, Finland, August 20–24, 2018. **Best Paper Award** in the conference.
- [140] G. F. Italiano, Y. Manoussakis, K. T. Nguyen and H. P. Pham, “Maximum Colorful Cliques in Vertex-Colored Graphs”. *Proc 14th International Conference on Computing and Combinatorics* (COCOON 2018), Qing Dao, China, July 2-4, 2018, 480-491.
- [141] L. Georgiadis, G. F. Italiano, N. Parotsidis, “Incremental strong connectivity and 2-connectivity in directed graphs”, *Proc 13th Latin American Theoretical INformatics Symposium* (LATIN 2018), Buenos Aires, Argentina, April 16–19, 2018, 529–543.
- [142] G. F. Italiano, Y. Manoussakis, K. T. Nguyen and H. P. Pham, “Maximum colorful cycles in vertex-colored graphs”. *Proc 13th International Computer Science Symposium in Russia* (CSR 2018), Moscow, Russia, June 6–10, 2018, 106-117.

- [143] G. Bottazzi, G. F. Italiano, D. Spera. “Preventing Ransomware Attacks Through File System Filter Drivers”. *Proc. 2nd Italian Conference on Cybersecurity (ITASEC18)*, Milan, Italy, February 6–9, 2018.
- [144] L. Georgiadis, G. F. Italiano, A. Karanasiou, N. Parotsidis and N. Paudel, “Computing 2-Connected Components and Maximal 2-Connected Subgraphs in Directed Graphs: An Experimental Study”. *Proc 20th Algorithm Engineering and Experiments (ALENEX 2018)*, New Orleans, USA, January 7–8, 2018, 169-183.
- [145] J. Cohen, G. F. Italiano, Y. Manoussakis, K. T. Nguyen and H. P. Pham, “Tropical paths in vertex-colored graphs”. *Proc. 11th Annual International Conference on Combinatorial Optimization and Applications (COCOA 2017)* Shanghai, China, December 16–18, 2017, 291-305.
- [146] J. Holm, G. F. Italiano, A. Karczmarz, J. Łącki, E. Rotenberg, P. Sankowski, “Contracting a Planar Graph Efficiently”. *Proc. 25th Annual European Symposium on Algorithms (ESA 2017)*, Vienna, Austria, September 4–8, 2017, 50:1-50:15.
- [147] G. Marciani, M. Porretta, M. Nardelli, G. F. Italiano, “A Data Streaming Approach to Link Mining in Criminal Networks”. *5th International Conference on Future Internet of Things and Cloud Workshops*, Prague, Czech Republic, August 21–23, 2017, 138–143.
- [148] L. Georgiadis, T. D. Hansen, G. F. Italiano, S. Krinninger, N. Parotsidis, “Decremental dominators with applications”. *Proc. 44th International Colloquium on Automata, Languages, and Programming (ICALP 2017)*, Warsaw, Poland, July 10–14, 2017, 42:1-42:15.
- [149] L. Georgiadis, D. Graf, G. F. Italiano, N. Parotsidis, P. Uznański. “All-pair 2-Reachability in $O(n^\omega \log n)$ time”. *Proc. 44th International Colloquium on Automata, Languages, and Programming (ICALP 2017)*, Warsaw, Poland, July 10–14, 2017, 74:1-74:14.
- [150] G. F. Italiano, A. Karczmarz, J. Łącki, P. Sankowski, “Decremental Single-Source Reachability in Planar Digraphs”. *Proc. 49th Annual ACM Symposium on the Theory of Computing (STOC 2017)*, Montreal, Canada, June 19–23, 2017, 1108-1121.
- [151] L. Georgiadis, G. F. Italiano, A. Karanasiou, “Approximating the smallest 2-vertex-connected spanning subgraph via low-high order”. *Proc. 16th International Symposium on Experimental Algorithms (SEA 2017)*, London, UK, June 21–23, 2017, 9:1-9:16.
- [152] V. Acuña, R. Grossi, G. F. Italiano, L. Lima, R. Rizzi, G. Sacomoto, M.-F. Sagot, B. Sinaimeri, “On bubble generators in directed graphs”. *Proc. 43rd International Workshop on Graph-Theoretic Concepts in Computer Science (WG17)*, Eindhoven, The Netherlands, June 21–23, 2017, 18–31.
- [153] G. F. Italiano, N. Parotsidis, E. Perekhodko, “What’s Inside a Bow-Tie: Analyzing the Core of the Web and of Social Networks”, *Proc. 2017 International Conference on Information System and Data Mining (ICISDM 2017)*, Charleston, SC, USA, April 01–03, 2017, 39–43.
- [154] G. Bottazzi, G. F. Italiano, G. G. Rutigliano. “An Operational Framework for Incident Handling”. *Proc. 1st Italian Conference on Cybersecurity (ITASEC17)*, Venice, Italy, January 17–20, 2017, 126–135.
- [155] L. Georgiadis, G. F. Italiano, N. Parotsidis, “Strong Connectivity in Directed Graphs under Failures”, *Proc. ACM-SIAM Symposium on Discrete Algorithms (SODA 2017)*, Barcelona, Spain, January 16–19, 2017, 1880–1899.
- [156] S. Chechik, T. D. Hansen, G. F. Italiano, V. Loitzenbauer, N. Parotsidis, “Faster Algorithms for Computing Maximal 2-Connected Subgraphs in Sparse Directed Graphs”, *Proc. ACM-SIAM Symposium on Discrete Algorithms (SODA 2017)*, Barcelona, Spain, January 16–19, 2017, 1900–1918.
- [157] N. Paudel, L. Georgiadis, G. F. Italiano, “Computing critical nodes in directed graphs”, *Proc 19th Algorithm Engineering and Experiments (ALENEX 2017)*, Barcelona, Spain, January 17–18, 2017, 43–57. ²
- [158] S. Chechik, T. D. Hansen, G. F. Italiano, J. Łącki, N. Parotsidis, “Decremental Single-Source Reachability and Strongly Connected Components in $\tilde{O}(m\sqrt{n})$ Total Update Time” *Proc. 57th Annual IEEE Symposium on Foundations of Computer Science (FOCS 2016)*, New Brunswick, New Jersey, October 9–11, 2016, 315–324.

²Selected as one of the best papers for the conference special issue in the *ACM Journal on Experimental Algorithmics*.

- [159] L. Georgiadis, G. F. Italiano, N. Parotsidis, “2-Connectivity in Directed Graphs”, (Invited Talk), *Proc. 24th Annual European Symposium on Algorithms (ESA 2016)*, Aarhus, Denmark August 22–24, 2016, 1–14.
- [160] G. Bottazzi, G. F. Italiano, G. G. Rutigliano, “Frequency Domain Analysis of Large-Scale Proxy Logs for Botnet Traffic Detection”, *Proc. 9th International Conference on Security of Information and Networks*, Newark, NJ, USA, July 20–22, 2016, 76–80.
- [161] L. Georgiadis, G. F. Italiano, N. Parotsidis, “Incremental 2-Edge-Connectivity in Directed Graphs”, *Proc. 43rd International Colloquium on Automata, Languages and Programming (ICALP 2016)*, July 12–15, 2016, Rome, Italy, 49:1–49:15.
- [162] L. Georgiadis, G. F. Italiano, A. Karanasiou, C. Papadopoulos, N. Parotsidis, “Sparse Subgraphs for 2-Connectivity in Directed Graphs”, *Proc. 15th International Symposium on Experimental Algorithms (SEA 2016)*, June 5–8, 2016, St. Petersburg, Russia, 150–166.
- [163] N. Paudel, M. Querini, G. F. Italiano, “Handwritten Signature Verification for Mobile Phones”. *Proc. 2nd International Conference on Information Systems Security and Privacy (ICISSP 2016)*, Rome, Italy, February 19–21, 2016, 46–52.
- [164] L. Georgiadis, G. F. Italiano, C. Papadopoulos, N. Parotsidis, “Approximating the Smallest Spanning Subgraph for 2-Edge-Connectivity in Directed Graphs”. *Proc. 23rd Annual European Symposium on Algorithms (ESA 2015)*, September 14–16 2015, Patras, Greece, 582–594
- [165] G. Bottazzi, G. F. Italiano, “Fast Mining of Large-Scale Logs for Botnet Detection: A Field Study”. *Proc. 13th IEEE International Conference on Dependable, Autonomic and Secure Computing*, Liverpool, United Kingdom, October 26–28, 2015, 1989–1996.
- [166] S. Bhattacharya, M. Henzinger, G. F. Italiano, “Design of Dynamic Algorithms via Primal-Dual Schema”. *Proc. 42nd International Colloquium on Automata, Languages, and Programming (ICALP 2015)*, 6–10 July 2015, Kyoto, Japan, 206–218. ³
- [167] L. Georgiadis, G. F. Italiano, L. Laura, N. Parotsidis, “2-Vertex Connectivity in Directed Graphs”. *Proc. 42nd International Colloquium on Automata, Languages, and Programming (ICALP 2015)*, 6–10 July 2015, Kyoto, Japan, 605–617. ⁴
- [168] S. Bhattacharya, M. Henzinger, G. F. Italiano, “Deterministic fully dynamic data structures for vertex cover and matching”. *Proc. 26th ACM-SIAM Symposium on Discrete Algorithms (SODA 2015)*, San Diego, USA, 4–6 January 2015, 785–804.
- [169] L. Georgiadis, G. F. Italiano, L. Laura, N. Parotsidis, “2-Edge Connectivity in Directed Graphs”. *Proc. 26th ACM-SIAM Symposium on Discrete Algorithms (SODA 2015)*, San Diego, USA, 4–6 January 2015, 1988–2005.
- [170] W. Di Luigi, L. Georgiadis, G. F. Italiano, L. Laura, N. Parotsidis, “2-Connectivity in Directed Graphs: An Experimental Study”. *Proc. 17th Algorithm Engineering and Experiments (ALENEX 2015)*, San Diego, USA, 5 January 2015, 173–187.
- [171] D. Firmani, G. F. Italiano, L. Laura: The (not so) Critical Nodes of Criminal Networks. *SocInfo Workshop on Criminal Network Analysis and Mining (CRIMENET 2014)*, Barcelona, Spain, November 11, 2014, 87–96.
- [172] D. Delling, G. F. Italiano, T. Pajor, F. Santaroni, “Better transit routing by exploiting vehicle GPS data”. *Proc. 7th ACM SIGSPATIAL International Workshop on Computational Transportation Science (IWCTS 2014)*, November 4, 2014, Dallas, TX, USA, 31–40.
- [173] M. Querini, M. Gattelli, V. M. Gentile, G. F. Italiano, “Handwritten Signature Verification with 2D Color Barcodes”. *Proc. 2014 Federated Conference on Computer Science and Information Systems (FedCSIS 2014)*, Warsaw, Poland, 7–10 September, 2014, pages 701–708. IEEE 2014. ⁵
- [174] D. Firmani, G. F. Italiano, M. Querini, “Engineering Color Barcode Algorithms for Mobile Applications”. *Proc. 13th International Symposium on Experimental Algorithms, (SEA 2014)*, June 29– July 1st 2014, Copenhagen, Denmark, 211–222.

³Selected as one of the best papers for the conference special issue in the journal *Information and Computation*.

⁴Selected as one of the best papers for the conference special issue in the journal *Information and Computation*.

⁵Selected as one of the best papers for the conference special issue in the *International Journal of Computer Science and Applications*.

- [175] L. Allulli, G. F. Italiano, F. Santaroni, "Exploiting GPS Data in Public Transport Journey Planners". *Proc. 13th International Symposium on Experimental Algorithms*, (SEA 2014), June 29– July 1st 2014, Copenhagen, Denmark, 295–306.
- [176] M. Querini, G. F. Italiano, "Color Classifiers for 2D Color Barcodes". *Proc. 2013 Federated Conference on Computer Science and Information Systems* (FedCSIS 2013), Kraków, Poland, September 8-11, 2013. **Best Paper Award** in the conference. ⁶
- [177] D. Firmani, G. F. Italiano, L. Laura, F. Santaroni, "Is Timetabling Routing Always Reliable for Public Transport?", *Proc. 13th Workshop on Algorithmic Approaches for Transportation Modelling, Optimization, and Systems* (ATMOS 2013), September 5, 2013, Sophia Antipolis, France, 15–26.
- [178] G. Ausiello, P. G. Franciosa, G. F. Italiano, A. Ribichini, "On resilient graph spanners", *Proc. 23rd Annual European Symposium on Algorithms* (ESA 2013), Sophia Antipolis, France, 2–6 September, 2013, 85–96.
- [179] L. Georgiadis, G. F. Italiano, L. Laura, F. Santaroni, "An Experimental Study of Dynamic Dominators", *Proc. 22nd Annual European Symposium on Algorithms* (ESA 2012), September 9-14 2012, Ljubljana, Slovenia, 491–502.
- [180] M. Querini, G. F. Italiano, "Facial Biometrics for 2D Barcodes". *Proc. 2012 Federated Conference on Computer Science and Information Systems* (FedCSIS 2012), Wroclaw, Poland, September 9-12, 2012, 755-762. ⁷
- [181] S. Salcedo-Sanz, L. Carro-Calvo, A. Portilla-Figueras, M. Naldi, L. Laura, G. F. Italiano, "Traffic vs Topology in Network Clustering: Does it Matter?". *Proc. 8th International Wireless Communications and Mobile Computing Conference* (IWCMC 2012), Limassol, Cyprus, August 27-31, 2012.
- [182] D. Firmani, G. F. Italiano, L. Laura, A. Orlandi, F. Santaroni, "Computing Strong Articulation Points and Strong Bridges in Large-Scale Graphs". *Proc. 11th International Symposium on Experimental Algorithms*, (SEA 2012), June 9–12 2012, Bordeaux, France, 195–207.
- [183] G. Ausiello, G. F. Italiano, L. Laura, U. Nanni, F. Sarracco, "Structure Theorems for Optimum Hyperpaths in Directed Hypergraphs". *Proc. 2nd International Symposium on Combinatorial Optimization*, (ISCO 2012), April 19–21 2012, Athens, Greece, 1–14.
- [184] G. F. Italiano "Strong Bridges and Strong Articulation Points of Directed Graphs". *Proc. 38th International Conference on Current Trends in Theory and Practice of Computer Science* (SOFSEM 2012), January 21-27, 2012, Špindlerův Mlýn, Czech Republic. *Lecture Notes in Computer Science*, vol. 7147, 43.
- [185] D. Breslauer, G. F. Italiano, "Near Real-Time Suffix Tree Construction via the Fringe Marked Ancestor Problem", *Proc. 18th International Symposium on String Processing and Information Retrieval* (SPIRE 2011), Pisa, Italy, October 17–21, 2011. *Lecture Notes in Computer Science*, vol. 7024, 156–167. **Best Paper Award** in the conference. ⁸
- [186] D. Breslauer, G. F. Italiano, "On Suffix Extensions in Suffix Trees", *Proc. 18th International Symposium on String Processing and Information Retrieval* (SPIRE 2011), Pisa, Italy, October 17–21, 2011. *Lecture Notes in Computer Science*, vol. 7024, 301–312.
- [187] S. Tortora, D. Cannone, M. Giovacchini, G. F. Italiano, M. Naldi, A. Sindico, "Distributed Simulation of EW Command and Control Scenarios", *Proc. Int. Defense and Homeland Security Simulation Workshop* (DHSS 2011), Rome, Italy, 12–14 September 2011, 71–76.
- [188] D. Cannone, G. F. Italiano, M. Naldi, A. Brancaleoni, "A simulator of a mobile ad-hoc network in a hostile environment", *Proc. 1st International Conference on Simulation and Modeling Methodologies, Technologies and Applications* (SIMULTECH 2011), Noordwijkerhout, The Netherlands, 29–31 July, 2011.

⁶Selected as one of the best papers for the conference special issue in the journal *Computer Science and Information Systems*.

⁷Selected as one of the best papers for the conference special issue in the *International Journal of Computer Science and Applications*.

⁸Selected as one of the best papers for the conference special issue in the *Journal of Discrete Algorithms*.

- [189] S. Salcedo-Sanz, L. Carro-Calvo, A. Portilla-Figueras, M. Naldi, L. Laura, G. F. Italiano, "An Evolutionary Algorithm for Network Clustering through Traffic Matrices". *Proc. 7th International Wireless Communications and Mobile Computing Conference (IWCMC 2011)*, Istanbul, Turkey, July 5-8, 2011, 1580–1584.
- [190] G. F. Italiano, Y. Nussbaum, P. Sankowski, C. Wulff-Nilsen, "Improved algorithms for min cut and max flow in undirected planar graphs". *Proc. 43rd ACM Symposium on Theory of Computing (STOC 2011)*, San Jose, California, USA, June 6-8, 2011, 313–322.
- [191] M. Naldi, A. Pavignani, A. Grillo, A. Lentini, G. F. Italiano, "The Competitor Busting strategy in keyword auctions: who's worst hit?", *Proc. 9th Annual Conference on Communication Networks and Services Research (CNSR 2011)*, Ottawa, Ontario, Canada, May 2–4, 2011, IEEE Computer Society Press, 153–160.
- [192] M. Naldi, A. Pavignani, A. Grillo, A. Lentini, G. F. Italiano, "A model for the dynamics of bidders in the simulation of keyword auctions" *Proc. 12th International Conference on Computer Modelling and Simulation (UKSIM 2011)*, Cambridge, UK, March 30 – April 1st, 2011, 440–445.
- [193] V. Ottaviani, A. Lentini, A. Grillo, S. Di Cesare, G. F. Italiano, "Shared Backup & Restore", *Proc. 4th IFIP International Conference on New Technologies, Mobility and Security (NTMS 2011)*, Paris, France, February 7–10, 2011, 1–5 .
- [194] G. F. Italiano, L. Laura, F. Santaroni, "Finding strong articulation points and strong bridges in linear time", *Proc. 4th Annual International Conference on Combinatorial Optimization and Applications (COCO'A'10)* , Big Island, Hawaii, USA, December 18-20, 2010. *Lecture Notes in Computer Science*, vol. 6508, 157–169.⁹
- [195] A. Grillo, A. Lentini, V. Ottaviani, G. F. Italiano, F. Battisti, "SAVED: Secure Android Value added services", *Proc. 2nd International ICST Conference on Mobile Computing, Applications, and Services (MobiCASE 2010)*, Santa Clara, CA, USA, October 25-28, 2010.
- [196] A. Grillo, A. Lentini, M. Querini, G. F. Italiano, "High Capacity Colored Two Dimensional Codes", *Proc. International Multiconference on Computer Science and Information Technology (IMCSIT 2010)*, Wisla, Poland, October 18-20, 2010, 709–716. ¹⁰.
- [197] G. Ausiello, P. G. Franciosa, G. F. Italiano, A. Ribichini, "Computing Graph Spanners in Small Memory: Fault-Tolerance and Streaming", *Proc. 6th Annual International Computing and Combinatorics Conference (COCOON 2010)*, Nha Trang, Vietnam, July 19 – 21, 2010, 160–172 ¹¹.
- [198] L. Laura, M. Naldi, G. F. Italiano, "Traffic-based Network Clustering", *Proc. 6th International Wireless Communications and Mobile Computing Conference (IWCMC 2010)*, Caen, France, June 28 - July 2, 2010, 321-325.
- [199] G. F. Italiano, "Resilient Algorithms and Data Structures", INVITED LECTURE, *Proc. 7th International Conference on Algorithms and Complexity (CIAC 2010)*, Rome, Italy, May 26-28, 2010. *Lecture Notes in Computer Science* vol. 6078, Springer-Verlag, Berlin, 2010, 13–24.
- [200] U. Ferraro Petrillo, I. Finocchi, G. F. Italiano, "Experimental Study of Resilient Algorithms and Data Structures", INVITED LECTURE, *Proc. 4th International Symposium on Experimental Algorithms (SEA 2010)*, Ischia, Italy, May 20-22 2010, 1–12.
- [201] U. Ferraro Petrillo, F. Grandoni, G. F. Italiano, "Data Structures Resilient to Memory Faults: An Experimental Study of Dictionaries", *Proc. 4th International Symposium on Experimental Algorithms (SEA 2010)*, Ischia, Italy, May 20-22 2010, 398-410¹².
- [202] A. Grillo, A. Lentini, G. Naldi, G. F. Italiano, "Penalized Second Price: A New Pricing Algorithm for Advertising in Search Engines", *Proc. 8th Annual Conference on Communication Networks and Services Research (CNSR 2010)*, Montreal, Canada, May 11–14, 2010, 207-214, IEEE Computer Society Press.

⁹Selected as one of the best papers for the conference special issue in the journal *Theoretical Computer Science*.

¹⁰Selected as one of the best papers for the conference special issue in the *International Journal of Computer Science and Applications*.

¹¹Selected as one of the best papers for the conference special issue in the journal *Discrete Mathematics, Algorithms and Applications*.

¹²Selected as one of the best papers for the conference special issue in the *ACM Journal on Experimental Algorithmics*.

- [203] A. Distefano, A. Grillo, A. Lentini, G. F. Italiano, "SecureMyDroid: Enforcing Security in the Mobile Devices Lifecycle", *Proc. 6th Annual Cyber Security and Information Intelligence Research Workshop (CSIIRW 2010)*, Oak Ridge, TN, USA, April 21 - 23, 2010, 27:1–4.
- [204] F. Dellutri, L. Laura, V. Ottaviani, G. F. Italiano, "Extracting Social Networks from Seized Smartphones and Web Data", *Proc. 1st IEEE Int. Workshop on Information Forensics and Security (WIFS 09)*, London, UK, December 6–9, 2009, 101–105 .
- [205] F. Dellutri, V. Ottaviani, D. Bocci, G. F. Italiano, G. Me, "Data reverse engineering on a smart-phone", *Proc. Int. Conference on Ultra Modern Telecommunications (ICUMT 09)*, St. Petersburg, Russia, October 12–14, 2009, 1–8.
- [206] P. Spallaccini, F. Iovine, G. F. Italiano. "An Automatized Methodology Design For Real-Time Signal Processing Applications in Multiple Multi-Core Platforms". *Proc. IEEE International Conference on Multimedia & Expo (ICME 2009)* New York, NY, June 28 - July 3, 2009, 1829–1832.
- [207] A. Grillo, A. Lentini, G. Me, G. F. Italiano, "Transaction oriented text messaging with Trusted-SMS", *Proc 24th Annual Computer Security Applications Conference (ACSAC)*, Anaheim (CA), USA, December 8–12, 2008, 485–494.
- [208] G. S. Brodal, R. Fagerberg, I. Finocchi, F. Grandoni, G. F. Italiano, A. G. Jørgensen, G. Moruz, T. Mølhave, "Optimal Resilient Dynamic Dictionaries", *Proc. 15th Annual European Symposium on Algorithms (ESA 07)*, Eilat, Israel, October 8-10, 2007, *Lecture Notes in Computer Science*, Springer-Verlag, Berlin, 2007, 347–358.
- [209] G. Ausiello, C. Demetrescu, P. G. Franciosa, G. F. Italiano, A. Ribichini, "Small Stretch Spanners in the Streaming Model: New Algorithms and Experiments", *Proc. 15th Annual European Symposium on Algorithms (ESA 07)*, Eilat, Israel, October 8-10, 2007, *Lecture Notes in Computer Science*, Springer-Verlag, Berlin, 2007, 605–617¹³.
- [210] F. Dellutri, S. Di Blasi, G. F. Italiano, "Transparent File Protection in On-Demand Computing", *Proc. 2007 Int. Conf. on Grid Computing and Applications (GCA'07)* Las Vegas, NV, USA, June 25–28, 2007, pp. 116–122.
- [211] I. Finocchi, F. Grandoni, G. F. Italiano, "Resilient Search Trees". *Proc. 18th ACM-SIAM Symposium on Discrete Algorithms (SODA 07)*, New Orleans, LA, January 7-9, 2007, pp. 547–554.
- [212] F. Grandoni, G. F. Italiano, "Improved Approximation for Single-Sink Buy-at-Bulk". *Proc. 17th International Symposium on Algorithms and Computation (ISAAC 2006)*, Kolkata, India, December 18-20, *Lecture Notes in Computer Science*, Springer-Verlag, Berlin, 111–120.
- [213] F. Grandoni, G. F. Italiano, "Algorithms and Constraint Programming". INVITED LECTURE, *Proc. 12th Int. Conf. on Principles and Practice of Constraint Programming (CP 2006)*, France, September 26–29, 2006, *Lecture Notes in Computer Science* vol. 4204, Springer-Verlag, Berlin, 2006, 2–14.
- [214] C. Demetrescu, P. Faruolo, G. F. Italiano, M. Thorup, "Does Path Cleaning Help in Dynamic All-Pairs Shortest Paths?", *Proc. 14th Annual European Symposium on Algorithms (ESA 2006)*, Zürich, Switzerland, 11-13 September 2006, *Lecture Notes in Computer Science*, Springer-Verlag, Berlin, 2006, 732–743.
- [215] U. Ferraro Petrillo, I. Finocchi, G. F. Italiano, "The Price of Resiliency: A Case Study on Sorting with Memory Faults", *Proc. 14th Annual European Symposium on Algorithms (ESA 2006)*, Zürich, Switzerland, 11-13 September 2006, *Lecture Notes in Computer Science*, Springer-Verlag, Berlin, 2006, 768–779.¹⁴
- [216] I. Finocchi, F. Grandoni, G. F. Italiano, "Optimal Resilient Sorting and Searching in the presence of Dynamic Memory Faults", *Proc. 33rd International Colloquium on Automata, Languages, and Programming (ICALP 06)*, Venice, Italy, 9–16 July 2006, *Lecture Notes in Computer Science* vol. 4051, Springer-Verlag, Berlin, 2006, 286–298¹⁵.

¹³Selected as one of the best papers for the conference special issue in the journal *Algorithmica*.

¹⁴Selected as one of the best papers for the conference special issue in the journal *Algorithmica*.

¹⁵Selected as one of the best papers for the conference special issue in the journal *Theoretical Computer Science*.

- [217] C. Demetrescu, G. F. Italiano, “Algorithmic Techniques for Maintaining Shortest Routes in Dynamic Networks”, INVITED LECTURE, *Proc. 2nd Workshop on Cryptography for Ad Hoc Networks* (WCAN 2006), *Electronic Notes in Theoretical Computer Science*, 171 (1), 3–15, 2007.
- [218] S. Armenia, A. Iovanella, G. F. Italiano, G. Murgia, “Using social network analysis for the study of asynchronous interaction in e-learning”, *Proc. International Conference on e-Learning* (ICEL 2006), Montreal, Canada, June 22-23, 2006, 207–216.
- [219] V. Bonifaci, C. Demetrescu, I. Finocchi, G. F. Italiano, L. Laura, “Portraying algorithms with Leonardo Web”, *Proc. Int. Workshop on Web-based Learning*, November 20-22, 2005, vol. 3807, Springer-Verlag, Berlin, 2005 73–83.
- [220] I. Finocchi, F. Grandoni, G. F. Italiano, “Designing reliable algorithms in unreliable memory”. INVITED LECTURE, *Proc. 13th Annual European Symposium on Algorithms* (ESA 2005 - Design and Analysis track), Spain, 3-6 October 2005, 1–8.
- [221] G. Ausiello, P. G. Franciosa, G. F. Italiano, “Small stretch spanners on dynamic graphs”. *Proc. 13th Annual European Symposium on Algorithms* (ESA 2005 - Design and Analysis track), Spain, 3-6 October 2005, 532–543.
- [222] G. Cattaneo, U. Ferraro Petrillo, P. Faruolo, G. F. Italiano, “JIVE: Java Interactive software Visualization Environment”. *Proc. 20th IEEE Symposium on Visual Languages and Human-Centric Computing* (VL/HCC 04), Rome, Italy, September 26-29, 2004, 41–43.
- [223] G. Me, P. Spagnoletti, G. F. Italiano, “GSM and GPRS Performance of IPSEC Data Communication”. *Proc. International Conference on E-Business and Telecommunications Networks* (ICETE 2004), Setubal, Portugal, August 25–28, 2004, 3-11. **Best Paper Award** in the conference.
- [224] F. Grandoni, G. F. Italiano, “Decremental Clique Problem”. *Proc. 30th Int. Workshop on Graph-Theoretic Concepts in Computer Science* (WG 04), Bad Honnef, Bonn, Germany, June 21–23, 2004, *Lecture Notes in Computer Science* vol. 3353, Springer-Verlag, Berlin, 2004, 142–153.
- [225] N. Apollonio, M. Caramia, G. F. Italiano, “A Stochastic Location Problem with Applications to Telediagnosics”. *Proc. 30th Int. Workshop on Graph-Theoretic Concepts in Computer Science* (WG 04), Bad Honnef, Bonn, Germany, June 21–23, 2004, *Lecture Notes in Computer Science* vol. 3353, Springer-Verlag, Berlin, 2004, 201–213.
- [226] I. Finocchi, G. F. Italiano, “Sorting and searching in the presence of memory faults (without redundancy)”. *Proc. 36th Annual ACM Symposium on Theory of Computing* (STOC 04), Chicago, IL, June 13-15, 2004, 101–110.
- [227] C. Demetrescu, G. F. Italiano, “Engineering shortest path algorithms”. INVITED LECTURE, *3rd Proc. Workshop on Experimental Algorithms* (WEA 04), May 25–28 2004, Angra dos Reis, Brazil, 191–198.
- [228] C. Demetrescu, S. Emiliozzi, G. F. Italiano, “Experimental Analysis of Dynamic All Pairs Shortest Path Algorithms” *Proc. 15th ACM-SIAM Symposium on Discrete Algorithms* (SODA 04), New Orleans, LA, January 11-13, 2004, 362–371¹⁶.
- [229] C. Demetrescu, I. Finocchi, G. F. Italiano, “Engineering and visualizing algorithms”. INVITED LECTURE, *Proc. 11th Symposium on Graph Drawing* (GD 03), Perugia, Italy, 21–24 September 2003, *Lecture Notes in Computer Science* vol. 2912, Springer-Verlag, Berlin, 2004, 519–513.
- [230] F. Grandoni, G. F. Italiano, “Improved Algorithms for Max Restricted Path Consistency”, *Proc. 9th Int. Conf. Principles and Practice of Constraint Programming* (CP 2003), Kinsale, Ireland, *Lecture Notes in Computer Science* vol. 2833, Springer-Verlag, Berlin, 2003, 858-862.
- [231] C. Demetrescu, G. F. Italiano, “A new approach to dynamic all pairs shortest paths”. *Proc. 35th Annual ACM Symposium on Theory of Computing* (STOC 03), San Diego, CA, 9-11 June 2003, 159–166.
- [232] P. Crescenzi, R. Grossi, G. F. Italiano, “Search Data Structures for Skewed Strings”. *Proc. 2nd Int. Workshop on Experimental and Efficient Algorithms* 26–28 May 2003, Monte Verità, Ascona, Switzerland, 81–96.

¹⁶Selected as one of the best papers for the conference special issue in the journal *ACM Transaction on Algorithms*.

- [233] G. F. Italiano, S. Leonardi, G. Oriolo, “Design of networks in the hose model”, *Proc. 3rd Workshop on Approximation and Randomization Algorithms in Communication Networks (ARACNE 02)*, Rome, September 2002.
- [234] C. Demetrescu, G. F. Italiano, “Improved Bounds and New Trade-Offs for Dynamic Shortest Paths”. *Proc. 29th International Colloquium on Automata, Languages, and Programming (ICALP 02)*, Malaga, Spain, 8–13 July 2002, *Lecture Notes in Computer Science* vol. 2380, Springer-Verlag, Berlin, 2002, 633–643.
- [235] G. F. Italiano, R. Rastogi, B. Yener, “Restoration Algorithms for Virtual Private Networks in the Hose Model”. *Proc. IEEE INFOCOM 2002*, 21st Annual Joint Conf. of the IEEE Computer and Communications Societies, New York, U.S.A., 23–27 June 2002.
- [236] G. Cattaneo, P. Faruolo, U. Ferraro Petrillo, G. F. Italiano, “Maintaining Dynamic Minimum Spanning Trees: An Experimental Study”. *Proc. 4th Workshop on Algorithm Engineering and Experiments (ALENEX 02)* January 6–8, 2002, San Francisco, U.S.A. *Lecture Notes in Computer Science*, Springer-Verlag, Berlin, 2002, 111–125.
- [237] C. Demetrescu, G. F. Italiano, “Fully Dynamic All Pairs Shortest Paths with Real Edge Weights”. *Proc. 42nd IEEE Annual Symp. on Foundations of Computer Science (FOCS 2001)*, Las Vegas, NV, U.S.A., October 14-17, 2001, 260–267.¹⁷
- [238] G. F. Italiano, S. Leonardi, G. Oriolo, “Network design with the HOSE model”, *Proc. XXII Conferenza Annuale della Società Italiana di Ricerca Operativa (AIRO 2001)*, Cagliari, 4-7 Settembre 2001.
- [239] M. Caramia, G. F. Italiano, G. Oriolo, A. Pacifici, A. Perugia, “Routing a Fleet of Vehicles for Combined Pick-up and Delivery Services”, *Symposium on Operations Research 2001*, Duisburg, Germany, 3-5 Sept. 2001, pp. 3–8, Springer-Verlag, Berlin, 2001.
- [240] C. Demetrescu, G. F. Italiano, “Dynamic Transitive Closure: Breaking Through the $O(n^2)$ Barrier”. *Proc. 41st IEEE Annual Symp. on Foundations of Computer Science (FOCS 2000)*, Redondo Beach, CA, 12–14 November 2000, 381–389.
- [241] M. Caramia, P. Dell’Olmo, G. F. Italiano, “New Algorithms for Examination Timetabling”. *Proc. 4th Workshop on Algorithm Engineering (WAE 2000)*, September 5–8 2000, Saarbrücken, Germany, *Lecture Notes in Computer Science* vol. 1982, pp. 230–242, Springer-Verlag, Berlin, 2001.
- [242] A. Caprara, G. F. Italiano, G. Mohan, A. Panconesi, A. Srinivasan, “Wavelength Rerouting in Optical Networks, or the Venetian Routing Problem”, *Proc. 3rd International Workshop on Approximation Algorithms for Combinatorial Optimization Problems (APPROX 2000)*, September 5–8, 2000, Saarbrücken, Germany, *Lecture Notes in Computer Science* vol. 1913, pp. 72–83, Springer-Verlag, Berlin, 2000.
- [243] C. Demetrescu, G. F. Italiano, “What Do We Learn from Experimental Algorithmics?” INVITED LECTURE, *Proc. 25th International Symposium on Mathematical Foundations of Computer Science (MFCS 2000)*, August 28 – September 1, 2000, Bratislava, Slovakia, *Lecture Notes in Computer Science*, Springer-Verlag, Berlin, 2000, pp. 36–51.
- [244] Y. Qin, B. Li, G. F. Italiano, “A Low Cost and Effective Heuristic Wavelength Assignment Algorithm in a Wide-Area WDM based All Optical Network”, *Proc. 14th International Conference on Information Networking (ICOIN-14)*, January 26–28 2000, Hsin-Chu, Taiwan, R.O.C.
- [245] R. Grossi, G. F. Italiano, “Efficient techniques for maintaining multidimensional keys in linked data structures”. *Proc. 26th International Colloquium on Automata, Languages, and Programming (ICALP 99)*, Prague, Czech Republic, July 1999, *Lecture Notes in Computer Science*, Springer-Verlag, Berlin, 1999, 372–381.
- [246] B. Li, M. Golin, G. F. Italiano, X. Deng, K. Sohrawy, “On the optimal placement of Web Proxies in the Internet”, *Proc. IEEE INFOCOM 99*, 18th Annual Joint Conf. of the IEEE Computer and Communications Societies, New York, U.S.A., 21–25 March 1999, vol.3, 1282–1290.
- [247] G. Cattaneo, U. Ferraro Petrillo, G. F. Italiano, V. Scarano, “Cooperative Algorithm and Data Types Animation over the Net”, INVITED LECTURE, *Proc. Fundamentals, Foundations of Com-*

¹⁷Selected as one of the best papers for the conference special issue in the *Journal of Computer and System Sciences*.

- puter Science, XV IFIP World Computer Congress, Vienna and Budapest, 31 August – 4 September 1998, 63–80.*
- [248] G. Ausiello, G. F. Italiano, U. Nanni, “Hypergraph Traversal Revisited: Cost Measures and Dynamic Algorithms”, *Proc. Mathematical Foundations on Computer Science (MFCS 98)*, Brno, Czech Republic, 24–28 August 1998, *Lecture Notes in Computer Science*, vol. 1450, Springer-Verlag, Berlin, 1998, 1–.
- [249] F. Pittarello, M. Pittarello, G. F. Italiano, “Architecture and Digital Exhibitions – the Einstein Tower World”, *Virtual Environments '98, Proc. Eurographics Workshop*, Wien, Austria, June 16-18, 1998, M. Göbel, J. Landauer, U. Lang and M. Wapler (Eds.), Springer-Verlag, 1998, 162–71.
- [250] D. Alberts, G. Cattaneo, G. F. Italiano, U. Nanni, C. D. Zaroliagis “A Software Library of Dynamic Graph Algorithms”. *Proc. Algorithms and Experiments (ALEX 98)*, Trento, Italy, February 9–11, 1998, R. Battiti and A. A. Bertossi (Eds), pp. 129–136.
- [251] D. Frigioni, G. F. Italiano, “Switching vertices on and off in planar graphs”. *Proc. 5th Annual European Symposium on Algorithms (ESA 97)*, Graz, Austria, 15–17 September 1997, *Lecture Notes in Computer Science*, Springer-Verlag, Berlin, 1997, 186–199.¹⁸
- [252] R. Grossi, G. F. Italiano, “Efficient splitting and merging algorithms for order decomposable problems”, *Proc. 24th International Colloquium on Automata, Languages, and Programming (ICALP 97)*, Bologna, Italy, 7 - 11 July 1997, *Lecture Notes in Computer Science*, Springer-Verlag, Berlin, 1997, 605–615.¹⁹
- [253] G. Amato, G. Cattaneo, G. F. Italiano, “Experimental analysis of dynamic minimum spanning tree algorithms”, *Proc. 8th ACM-SIAM Annual Symp. on Discrete Algorithms (SODA 97)*, New Orleans, USA, 5–7 January 1997, 314–323.
- [254] D. Alberts, G. Cattaneo, G. F. Italiano, “An empirical study of dynamic graph algorithms”, *Proc. 7th ACM-SIAM Annual Symp. on Discrete Algorithms (SODA 96)*, Atlanta, GA, USA, 28–30 January 1996, 192–201.
- [255] G. F. Italiano, R. Ramaswami, “Maintaining spanning trees of small diameter”, *Proc. 21st International Colloquium on Automata, Languages, and Programming (ICALP 94)*, Jerusalem, Israel, 11 - 14 July 1994, *Lecture Notes in Computer Science* vol. 820, Springer-Verlag, Berlin, 1994, 227–238.
- [256] G. F. Italiano, J. A. La Poutré, M. H. Rauch, “Fully dynamic planarity testing in planar embedded graphs”, *Proc. 1st Annual European Symposium on Algorithms (ESA 1993)*, Bad Honnef, Bonn, Germany, 30 September - 2 October 1993, *Lecture Notes in Computer Science* vol. 726, Springer-Verlag, Berlin, 1993, 212–223.²⁰
- [257] R. Grossi, G. F. Italiano, “Suffix trees and their applications in string algorithms”, INVITED LECTURE, *Proc. 1st South American Workshop on String Processing, (WSP 93)*, Belo Horizonte, Brazil, 13-15 September 1993, 57–76.
- [258] D. Eppstein, Z. Galil, G. F. Italiano, T. H. Spencer, “Separator based sparsification for dynamic planar graph algorithms”, *Proc. 25th Annual ACM Symposium on Theory of Computing (STOC 93)*, San Diego, CA, 16-18 May 1993, 208–217.²¹
- [259] D. Eppstein, Z. Galil, G. F. Italiano, A. Nissenzweig, “Sparsification – A technique for speeding up dynamic graph algorithms”, *Proc. 33rd IEEE Annual Symp. on Foundations of Computer Science (FOCS 92)*, Pittsburgh, 24-27 October 1992, 60–69.
- [260] D. Giammarresi, G. F. Italiano, “Dynamic 2- and 3-connectivity on planar graphs”, *Proc. 3rd Scandinavian Workshop on Algorithm Theory (SWAT 92)*, Helsinki, Finland, 8-10 July 1992, *Lecture Notes in Computer Science* vol. 621, Springer-Verlag, Berlin, 1992, 221–232.
- [261] Z. Galil, G. F. Italiano, N. Sarnak, “Fully dynamic planarity testing”, *Proc. 24th Annual ACM Symposium on Theory of Computing (STOC 92)*, Victoria, Canada, 4-6 May 1992, 495–506.

¹⁸Selected as one of the best papers for the conference special issue in the journal *Algorithmica*.

¹⁹Selected as one of the best papers for the conference special issue in the journal *Theoretical Computer Science*.

²⁰Selected as one of the best papers for the conference special issue in the journal *Algorithmica*.

²¹Selected as one of the best papers for the conference special issue in the *Journal of Computer and System Science*.

- [262] G. F. Italiano, “Distributed algorithms for updating shortest paths”, *Proc. 5th International Workshop on Distributed Algorithms (WDAG 91)*, Delphi, Greece, 7-9 October 1991, *Lecture Notes in Computer Science* vol. 579, Springer-Verlag, Berlin, 1992, 200–211.
- [263] G. F. Italiano, N. Sarnak, “Fully persistent data structures for disjoint set union problems”, *Proc. Workshop on Algorithms and Data Structures (WADS 91)*, Ottawa, Canada, 14-16 August 1991, *Lecture Notes in Computer Science* vol. 519, Springer-Verlag, Berlin, 1991, 449–460.
- [264] Z. Galil, G. F. Italiano, “Maintaining biconnected components of dynamic planar graphs”, *Proc. 18th International Colloquium on Automata, Languages, and Programming (ICALP 91)*, Madrid, Spain, 8-12 July 1991, *Lecture Notes in Computer Science* vol. 510, Springer-Verlag, Berlin, 1991, 339–350.
- [265] Z. Galil, G. F. Italiano, “Fully dynamic algorithms for edge-connectivity problems”, *Proc. 23rd Annual ACM Symposium on Theory of Computing (STOC 91)*, New Orleans, 6-8 May 1991, 317–327.
- [266] M. Chrobak, D. Eppstein, G. F. Italiano, M. Yung, “Efficient sequential and parallel algorithms for computing recovery points in trees and paths”, *Proc. 2nd Annual ACM-SIAM Symposium on Discrete Algorithms (SODA 91)*, San Francisco, CA, 28-30 January 1991, 158–167.
- [267] D. Eppstein, G. F. Italiano, R. Tamassia, R. E. Tarjan, J. Westbrook, M. Yung, “Maintenance of a minimum spanning forest in a dynamic planar graph”, *Proc. First Annual ACM-SIAM Symposium on Discrete Algorithms (SODA 90)*, San Francisco, CA, 22-24 January 1990, 1–11.²²
- [268] G. Ausiello, G. F. Italiano, A. Marchetti Spaccamela, U. Nanni, “Incremental algorithms for minimal length paths”, *Proc. First Annual ACM-SIAM Symposium on Discrete Algorithms (SODA 90)*, San Francisco, CA, 22-24 January 1990, 12–21.
- [269] D. Eppstein, Z. Galil, R. Giancarlo, G. F. Italiano, “Sparse dynamic programming”, *Proc. First Annual ACM-SIAM Symposium on Discrete Algorithms (SODA 90)*, San Francisco, CA, 22-24 January 1990, 513–522.
- [270] G. F. Italiano, U. Nanni, “Online maintenance of minimal directed hypergraphs”, *Proc. 3rd Italian Conference on Theoretical Computer Science (ICTCS 89)*, Mantova (Italy), 2-4 November, 1989, World Scientific, 335–349.
- [271] G. F. Italiano, A. Marchetti Spaccamela, U. Nanni, “Dynamic data structures for series parallel digraphs”, *Proc. Workshop on Algorithms and Data Structures (WADS 89)*, Ottawa, Canada, 17-19 August 1989, *Lecture Notes in Computer Science* vol. 382, Springer-Verlag, Berlin, 1989, 352–372.
- [272] C. Arbib, G. F. Italiano, A. Panconesi, “Predicting deadlock in store-and-forward networks”, *Proc. 8th Conference on Foundations of Software Technology and Theoretical Computer Science (FST & TCS 88)*, Pune, India, 21-23 December 1988, *Lecture Notes in Computer Science*, vol. 338, Springer-Verlag, Berlin, 1988, 123–142.
- [273] G. Gambosi, G. F. Italiano, M. Talamo, “The set union problem with dynamic weighted backtracking”, *Proc. 26th Annual Allerton Conference on Communication, Control and Computing*, Monticello, IL, 28-30 September 1988, 819–831.
- [274] G. Gambosi, G. F. Italiano, M. Talamo, “Getting back to the past in the union-find problem”, *Proc. 5th Symposium on Theoretical Aspects of Computer Science (STACS 88)*, Bordeaux, France, 11-13 February 1988, *Lecture Notes in Computer Science* vol. 294, Springer-Verlag, Berlin, 1988, 8–17.
- [275] G. F. Italiano, “Transitive closure for dynamic graphs”, *Proc. 24th Annual Allerton Conference on Communication, Control and Computing*, Monticello, IL, 1-3 October 1986, 29–38.

Other Publications

- [276] G. F. Italiano, “Dynamic data structures for graphs”, Ph.D. Thesis, Tech. Rep. CUCS-019-91, Department of Computer Science, Columbia University, 1991.

²²Selected as one of the best papers for the conference special issue in the *Journal of Algorithms*.

PATENTS

- [277] Giuseppe F. Italiano, Rajeev Rastogi, Bülent Yener. "Restoration for Virtual Private Networks". United States Patent no. 8,028,050. Assigned on September 27, 2011.

Jannis Kallinikos

Jannis Kallinikos is professor of Organization Theory in the Department of Business and Management at Luiss University in which he holds the Cisco Chair on Digital Transformation and Data-Driven Innovation, and Professor in the Department of Management at the London School of Economics and Political Science.

His research is on the impact of information and communication technologies on organizations and economic institutions, and draws on several social science fields, including organisation studies, innovation theory, sociology, communication theory and semiotics and information systems. He has published widely in Management, Information Systems and Sociology journals and written several monographs including *The Consequences of Information: Institutional Implications of Technological Change*, Edward Elgar, 2007, *Governing Through Technology: Information Artefacts and Social Practice*, Palgrave, 2011. He has together with Paul Leonardi and Bonnie Nardi co-edited *Materiality and Organizing: Social Interaction in a Technological World*, Oxford University Press, 2012.

Professor Kallinikos is currently senior editor of the *Journal of Information Technology* and Associate Editor of *The Information Society* and member of the editorial board of *Organization Studies*. He has earlier served as senior editor for the *Journal of the Association of Information Systems* and the *European Journal of Information Systems* and as member of the editorial board of *Organization*.

Research areas:

- Institutional theory
- Sociology of organizations
- Data and digital innovation
- Platforms and ecosystems
- Data, social and organizational change

SILVIO MARTUCCELLI

Note biografiche

Nato a Roma il 19 aprile 1968, sposato con Maria Chiara e padre di Costanza, Carlo, Bruno e Matilde.

Aree di ricerca:

Contract Law, Corporate Law, International Trade, Property Law, Tort Law

Dipartimento di Impresa e Management

- [Diritto privato](#)

Dipartimento di Giurisprudenza

- [Diritto privato 1](#)
- [Diritto privato 2](#)

Curriculum

E' attualmente professore ordinario di Diritto privato nel Dipartimento di Giurisprudenza della L.U.I.S.S. "Guido Carli" di Roma, dove insegna anche European Private Law; insegna altresì Principles of Civil Law nel Dipartimento di Economia e Finanza.

Professore di prima fascia dal 2001, ha dapprima insegnato Istituzioni di Diritto privato e Diritto Agrario nella Facoltà di Giurisprudenza dell'Università degli Studi di Teramo (2001-2006), e successivamente (2006-2012) è stato titolare di Diritto civile nella Facoltà di Giurisprudenza dell'Università degli Studi di Parma, dove ha insegnato anche Contract Law e Legal English.

Dal 2001 al 2006 è stato Direttore del Dipartimento di Scienze Giuridiche e Preside vicario della Facoltà di Giurisprudenza dell'Università degli Studi di Teramo.

Si è laureato in giurisprudenza con 110/110 e lode nel 1991 presso la Facoltà di Giurisprudenza dell'Università degli Studi di Roma "La Sapienza", discutendo una tesi in Istituzioni di Diritto Privato.

Dopo un periodo di studi presso la London School of Economics, nell'anno 1993 ha conseguito il titolo di Master of Laws (LL.M.) presso la Columbia University Law School di New York.

Ha successivamente conseguito il titolo di Dottore di ricerca in Diritto civile presso la Facoltà di Giurisprudenza dell'Università degli Studi di Torino.

Nel corso della stesura delle sue monografie ha frequentato anche la Scuola di Specializzazione in Diritto Civile dell'Università di Camerino e l'Institut für ausländisches und internationales Privat- und Wirtschaftsrecht dell'Università di Heidelberg.

E' stato docente a contratto nell'Università degli Studi della Tuscia e nell'Università degli Studi di Teramo.

E' stato membro, in qualità di professore universitario, della Commissione per gli esami di abilitazione all'esercizio della professione forense per la Corte d'Appello di Abruzzo (2001/2002) e per la Corte d'Appello di Bologna (2010/2011).

E' stato componente, in qualità di professore universitario, della Commissione nazionale per il concorso di uditore giudiziario (2002).

Fa parte del Collegio Docenti del Dottorato di ricerca in Diritto ed Impresa della L.U.I.S.S., del Dottorato di ricerca in Diritto civile dell'Università degli Studi di Parma, e del Dottorato di ricerca in Diritto privato europeo dei rapporti patrimoniali dell'Università degli Studi di Verona.

E' Partner e Head of Litigation & Arbitration Department dello studio internazionale Chiomenti Studio Legale.

Loukas Georgiadis

Department of Computer Science & Engineering
University of Ioannina
GR 45110 - Ioannina, Greece

Email: loukas@cs.uoi.gr
Web: <http://www.cs.uoi.gr/~loukas/>
Tel: +30 26510 08914

Personal Information

Born: February 7, 1977, Ioannina, Greece.
Citizenship: Greek.

Research Interests

Design and analysis of algorithms and data structures.
Implementation and experimental study of algorithms and data structures.
Graph algorithms.
Combinatorial optimization.
Computational geometry.

Education

- 2005 PhD in Computer Science, Princeton University, Princeton NJ, USA. Thesis: "Linear-Time Algorithms for Dominators and Related Problems". Advisor: Prof. Robert E. Tarjan.
- 2002 MSc in Computer Science, Princeton University, Princeton NJ, USA.
- 2000 Graduate work in Computer Science, University of Patras, Patra, Greece.
- 1999 Diploma in Computer Engineering & Informatics, University of Patras, Patra, Greece. GPA 9.35/10.

Research Positions and Work Experience

Associate Professor, Department of Computer Science & Engineering, University of Ioannina, Greece. August 2018 – Present.

Adjunct Faculty, Hellenic Open University, September 2014 – Present.

Assistant Professor, Department of Computer Science & Engineering, University of Ioannina, Greece. January 2012 – August 2018.

Visiting Professor, Dipartimento di Ingegneria Civile e Ingegneria Informatica, Università di Roma "Tor Vergata", Italy. March – May 2016.

Assistant Professor, Department of Informatics & Telecommunications Engineering, University of Western Macedonia, Kozani, Greece. September 2008 – December 2011.

Researcher, Applied Algorithms Group, Hewlett-Packard Laboratories, Palo Alto CA, USA. March 2007 – September 2008.

Military Service in Greek Air Force. August 2006 – February 2007.

Postdoctoral Researcher, Algorithms Group, Department of Computer Science, University of Aarhus, Denmark. October 2005 – August 2006.

Visiting Researcher, NEC Research, Princeton NJ, USA. June – August 2003.

Professional Activities

Programm Committees

45th International Workshop on Graph-Theoretic Concepts in Computer Science (WG 2019), Vall de Núria, Catalonia, Spain, June 2019. Program Committee Member.

45th International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM 2019), Nový Smokovec, Slovakia, January 2019. Program Committee Member, Foundations of Computer Science Track.

26th Annual European Symposium on Algorithms (ESA 2018), Helsinki, Finland, August 2018. Program Committee Member, Design and Analysis Track.

17th International Symposium on Experimental Algorithms (SEA 2018), L'Aquila, Italy, June 2018. Program Committee Member.

40th International Symposium on Mathematical Foundations of Computer Science (MFCS 2015), Milano, Italy, August 2015. Program Committee Member.

14th International Conference on Ad Hoc Networks and Wireless (Ad Hoc Now 2015), Athens, Greece, June 2015. Program Committee Member, Special Track on "Distributed Computing with Mobile Agents".

14th International Symposium on Experimental Algorithms (SEA 2015), Paris, France, June 2015. Program Committee Member.

17th SIAM Meeting on Algorithm Engineering and Experiments (ALENEX 2015), San Diego CA, USA, January 2015. Program Committee Member.

2nd International Symposium on Computing in Informatics and Mathematics (ISCIM 2013), Tirana, Albania, September 2013. Chair of Theoretical Computer Science Track.

39th International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM 2013), Špindleruv Mlýn, Czech Republic, January 2013. Program Committee Member, Foundations of Computer Science Track.

21st European Symposium on Algorithms (ESA 2013), Sophia Antipolis, France, September 2013. Program Committee Member, Engineering and Applications Track.

12th Pan-Hellenic Conference on Informatics (PCI 2008), Samos, Greece, August 2008. Program Committee Member.

34th International Colloquium on Automata, Languages and Programming (ICALP 2007), Wrocław, Poland, July 2007. Program Committee Member, Track A (Algorithms, Automata, Complexity and Games).

International Workshop on Algorithmic Topics in Constrained Programming (ATCP 2007), Wrocław, Poland, July 2007. Program Committee Member.

Other Professional Activities

Bertinoro Workshop on Algorithms and Data Structures, University of Bologna Residential Center, Bertinoro, Italy, June 2005, 2007, 2009, 2011, 2013, 2015, 2017, 2019.

Dagstuhl Seminar on Horn Formulas, Directed Hypergraphs, Lattices and Closure Systems: Related Formalisms and Applications, Schloss Dagstuhl, Germany, May 2014.

Dagstuhl Seminar on Data Structures, Schloss Dagstuhl, Germany, February 2006, 2008.

Reviewer for journals: SIAM Journal on Computing (SICOMP), ACM Transactions on Algorithms (TALG), Journal of Experimental Algorithmics (JEA), IEEE Transactions on Computers (TC), Oxford Computer Journal (COMPJ), International Journal of Computer Mathematics, Theoretical Computer Science (TCS), Algorithmica, Journal of Parallel and Distributed Computing (JPDC), Discrete Applied Mathematics (DAM), Discrete Mathematics and Theoretical Computer Science (DMTCS), Discrete Mathematics, Algorithms and Applications (DMAA), Journal of Discrete Algorithms (JDA), Information Processing Letters (IPL), Computational Optimization and Applications (COAP), IEEE Transactions on Knowledge and Data Engineering, Asia-Pacific Journal of Operational Research (APJOR), Mathematical Programming Computation Journal (MPC).

Reviewer for conferences: IEEE Symposium on Foundations of Computer Science (FOCS), ACM Symposium on the Theory of Computing (STOC), ACM-SIAM Symposium on Discrete Algorithms (SODA), ACM-SIAM Workshop on Algorithm Engineering and Experiments (ALENEX), ACM Conference on Electronic Commerce (EC), European Symposium on Algorithms (ESA), International Colloquium on Automata, Languages and Programming (ICALP), ACM/IEEE Symposium on Logic in Computer Science (LICS), Latin American Theoretical Informatics Symposium (LATIN), International Computing and Combinatorics Conference (COCOON), International Symposium of Experimental Algorithms (SEA), Combinatorial Pattern Matching (CPM), ACM Symposium on Parallelism in Algorithms and Architectures (SPAA), International Symposium on Mathematical Foundations of Computer Science (MFCS), Symposium on Theoretical Aspects of Computer Science (STACS).

Participation in Funded Research Programs

Profiling Relations In Drug trafficking in Europe (PRIDE). January 2015 – November 2017. JUST/2014/ACTION GRANT. Research Team Member.

Network Connectivity Problems: Algorithms, Complexity, and Applications. January – December 2013. Proposal Coauthor and Research Team Member. Funded by the Empeirikio Foundation.

Documentation and Analysis of Endangered Languages. January – December 2011. Research Team Member. Funded by the John S. Latsis Public Benefit Foundation.

Efficient Algorithms for Reachability and Path-Selection Problems with Applications. January – December 2010. Project Coordinator. Funded by the John S. Latsis Public Benefit Foundation.

Participation in Funded Teaching Programs

Natural Language Processing: Techniques, Applications and Challenges. Erasmus Intensive Program. University of Western Macedonia, Kozani, Greece. June 2011. Organizing Committee Member.

Awards and Honors

Princeton University Research Fellowship, 2000 – 2005.

Award from the City Council of Ioannina, Greece. Presented for strong academic promise, 2000.

Computer Engineering and Informatics Department, University of Patras, Greece. First in rank of graduation, 1999. (GPA: 9.35)

Awards from the Greek Fellowship Foundation for excellent academic performance, 1994, 1996 and 1997.

Awards from the Technical Chamber of Greece for excellent academic performance, 1996 and 1999.

Honorary diploma from the Lilian Voudouri Foundation. Awarded for achieving fourth highest score at the national university entrance examinations, 1994.

Publications

Preprints (to be submitted)

11. A. ABBOUD, L. GEORGIADIS, D. GRAF, G. F. ITALIANO, R. KRAUTHGAMER, N. PAROTSIDIS, O. TRABELSI AND P. UZNAŃSKI Faster Algorithms for All-Pairs Bounded Min-Cuts. *CoRR abs/1807.05803 (2018)*.

Referred Conference Papers

- C33. L. GEORGIADIS, G. F. ITALIANO, AND N. PAROTSIDIS Incremental Strong Connectivity and 2-Connectivity in Directed Graphs. *In Proceedings of the 13th Latin American Theoretical INformatics Symposium (LATIN 2018), pages 529–543.*
- C32. L. GEORGIADIS, G. F. ITALIANO, A. KARANASIOU, N. PAROTSIDIS AND N. PAUDEL Computing 2-Connected Components and Maximal 2-Connected Subgraphs in Directed Graphs: An Experimental Study. *In Proceedings of the 20th SIAM Meeting on Algorithm Engineering and Experimentation (ALENEX 2018), pages 169–183.*
- C31. L. GEORGIADIS, T. D. HANSEN, G. F. ITALIANO, S. KRINNINGER AND N. PAROTSIDIS Decremental Data Structures for Connectivity and Dominators in Directed Graphs. *In Proceedings of the 44th International Colloquium on Automata, Languages, and Programming (ICALP 2017) A, pages 42:1–42:15.*
- C30. L. GEORGIADIS, D. GRAF, G. F. ITALIANO, N. PAROTSIDIS AND P. UZNAŃSKI All-Pairs 2-Reachability in $O(n^\omega \log n)$ Time. *In Proceedings of the 44th International Colloquium on Automata, Languages, and Programming (ICALP 2017) A, pages 74:1–74:14.*
- C29. L. GEORGIADIS, G. F. ITALIANO AND A. KARANASIOU Approximating the Smallest 2-Vertex-Connected Spanning Subgraph via Low-High Orders. *In Proceedings of the 16th International Symposium on Experimental Algorithms (SEA 2017), pages 9:1–9:16.*
- C28. L. GEORGIADIS, K. GIANNIS, A. KARANASIOU AND L. LAURA Incremental Low-High Orders of Directed Graphs and Applications. *In Proceedings of the 16th International Symposium on Experimental Algorithms (SEA 2017), pages 27:1–27:21.*
- C27. L. GEORGIADIS, G. F. ITALIANO AND N. PAROTSIDIS Strong Connectivity in Directed Graphs under Failures. *In Proceedings of the 28th ACM-SIAM Symposium on Discrete Algorithms (SODA 2017), pages 1880–1899.*
- C26. N. PAUDEL, L. GEORGIADIS AND G. F. ITALIANO Computing Critical Nodes in Directed Graphs. *In Proceedings of the 19th SIAM Meeting on Algorithm Engineering and Experimentation (ALENEX 2017), pages 43–57.*
- C25. L. GEORGIADIS, G. F. ITALIANO AND N. PAROTSIDIS 2-Connectivity in Directed Graphs. *In Proceedings of the 24th Annual European Symposium on Algorithms (ESA 2016), pages 1:1–1:14.* G. F. Italiano's invited talk.
- C24. L. GEORGIADIS, G. F. ITALIANO AND N. PAROTSIDIS Incremental 2-Edge-Connectivity in Directed Graphs. *In Proceedings of the 43rd International Colloquium on Automata, Languages, and Programming (ICALP 2016) A, pages 49:1–49:15.*
- C23. L. GEORGIADIS, G. F. ITALIANO, A. KARANASIOU, C. PAPADOPOULOS AND N. PAROTSIDIS Sparse Subgraphs for 2-Connectivity in Directed Graphs. *In Proceedings of the 15th International Symposium on Experimental Algorithms (SEA 2016), pages 150–166.*

- C22. L. GEORGIADIS, G. F. ITALIANO, C. PAPADOPOULOS AND N. PAROTSIDIS Approximating the Smallest Spanning Subgraph for 2-Edge-Connectivity in Directed Graphs. *In Proceedings the 23rd Annual European Symposium on Algorithms (ESA 2015) B*, pages 582–594.
- C21. L. GEORGIADIS, G. F. ITALIANO, L. LAURA AND N. PAROTSIDIS 2-Vertex Connectivity in Directed Graphs. *In Proceedings of the 42th International Colloquium on Automata, Languages and Programming (ICALP 2015) A*, pages 605–617.
- C20. W. DI LUIGI, L. GEORGIADIS, G. F. ITALIANO, L. LAURA AND N. PAROTSIDIS 2-Connectivity in Directed Graphs: An Experimental Study. *In Proceedings of the 17th SIAM Meeting on Algorithm Engineering and Experiments (ALENEX 2015)*, pages 173–187.
- C19. L. GEORGIADIS, G. F. ITALIANO, L. LAURA AND N. PAROTSIDIS 2-Edge Connectivity in Directed Graphs. *In Proceedings of the 26th ACM-SIAM Symposium on Discrete Algorithms (SODA 2015)*, pages 1988–2005.
- C18. L. GEORGIADIS, L. LAURA, N. PAROTSIDIS, AND R. E. TARJAN Loop Nesting Forests, Dominators, and Applications. *In Proceedings of the 13th International Symposium on Experimental Algorithms (SEA 2014)*, pages 174–186.
- C17. L. GEORGIADIS AND N. PAROTSIDIS Dominators in Directed Graphs: A Survey of Recent Results, Applications, and Open Problems. *In Proceedings of the 2nd International Symposium on Computing in Informatics and Mathematics (ISCIM 2013)*, pages 15–20.
- C16. L. GEORGIADIS, L. LAURA, N. PAROTSIDIS, AND R. E. TARJAN Dominator Tree Certification and Independent Spanning Trees: An Experimental Study. *In Proceedings of the 12th International Symposium on Experimental Algorithms (SEA 2013)*, pages 284–295.
- C15. L. GEORGIADIS, G. F. ITALIANO, L. LAURA AND F. SANTARONI An Experimental Study of Dynamic Dominators. *In Proceedings the 20th Annual European Symposium on Algorithms (ESA 2012) B*, pages 491–502.
- C14. L. GEORGIADIS AND R. E. TARJAN Dominators, Directed Bipolar Orders, and Independent Spanning Trees. *In Proceedings of the 39th International Colloquium on Automata, Languages and Programming (ICALP 2012) A*, pages 375–386.
- C13. L. GEORGIADIS Approximating the Smallest 2-Vertex Connected Spanning Subgraph of a Directed Graph. *In Proceedings of the 19th Annual European Symposium on Algorithms (ESA 2011) B*, pages 13–24.
- C12. K. PATAKAKIS, L. GEORGIADIS AND V. A. TATSIS Dynamic Dominators in Practice. *In Proceedings of the 15th Panhellenic Conference on Informatics (PCI 2011)*, pages 100–104.
- C11. L. GEORGIADIS, S. D. NIKOLOPOULOS AND L. PALIOS Join-Reachability Problems in Directed Graphs. *In Proceedings of the 6th International Computer Science Symposium in Russia (CSR 2011)*, pages 195–208.
- C10. L. GEORGIADIS Testing 2-Vertex Connectivity and Computing Pairs of Vertex-Disjoint s - t Paths in Digraphs. *In Proceedings of the 37th International Colloquium on Automata, Languages and Programming (ICALP 2010)*, pages 738–749.
- C9. L. GEORGIADIS, A. V. GOLDBERG, R. E. TARJAN AND R. F. WERNECK An Experimental Study of Minimum Mean Cycle Algorithms. *In Proceeding of the 11th Workshop on Algorithm Engineering and Experiments (ALENEX 2009)*, pages 1–13.
- C8. L. GEORGIADIS Computing Frequency Dominators and Related Problems. *In Proceedings of the 19th International Symposium on Algorithms and Computation (ISAAC 2008)*, pages 704–715.
- C7. B. V. CHERKASSKY, L. GEORGIADIS, A. V. GOLDBERG, R. E. TARJAN AND R. F. WERNECK Shortest Path Feasibility Algorithms: An Experimental Evaluation. *In Proceedings of the 10th Workshop on Algorithm Engineering and Experiments (ALENEX 2008)*, pages 118–132.
- C6. G. S. BRODAL, L. GEORGIADIS, K. A. HANSEN AND I. KATRIEL Dynamic Matchings in Convex Bipartite Graphs. *In Proceedings of the 32nd International Symposium on Mathematical Foundations of Computer Science (MFCS 2007)*, pages 406–417.

- C5. L. ARGE, G. S. BRODAL AND L. GEORGIADIS Improved Dynamic Planar Point Location. *In Proceedings of the 47th IEEE Symposium on Foundations of Computer Science (FOCS 2006)*, pages 305–314.
- C4. L. GEORGIADIS, R. E. TARJAN AND R. F. WERNECK Design of Data Structures for Mergeable Trees. *In Proceedings of the 17th ACM-SIAM Symposium on Discrete Algorithms (SODA 2006)*, pages 394–403.
- C3. L. GEORGIADIS AND R. E. TARJAN Dominator Tree Verification and Vertex-Disjoint Paths. *In Proceedings of the 16th ACM-SIAM Symposium on Discrete Algorithms (SODA 2005)*, pages 433–442.
- C2. L. GEORGIADIS, R. F. WERNECK, R. E. TARJAN, S. TRIANTAFYLLIS AND D. I. AUGUST Finding Dominators in Practice. *In Proceedings of the 12th European Symposium on Algorithms (ESA 2004)*, pages 677–688.
- C1. L. GEORGIADIS AND R. E. TARJAN Finding Dominators Revisited. *In Proceedings of the 15th ACM-SIAM Symposium on Discrete Algorithms (SODA 2004)*, pages 869–878.

Referred Journal Articles

- J15. N. PAUDEL, L. GEORGIADIS AND G. F. ITALIANO Computing Critical Nodes in Directed Graphs. *ACM Journal of Experimental Algorithmics, special issue on ALENEX 2017, volume 23, issue 2, pages 2.2:1–2.2:24, 2018.*
- J14. L. GEORGIADIS, G. F. ITALIANO, L. LAURA AND N. PAROTSIDIS 2-Vertex Connectivity in Directed Graphs. *Information and Computation, special issue devoted to selected papers from ICALP 2015, volume 261, part 2, pages 248–264, 2018.*
- J13. L. GEORGIADIS, G. F. ITALIANO, A. KARANASIOU, C. PAPADOPOULOS AND N. PAROTSIDIS Sparse Certificates for 2-Connectivity in Directed Graphs. *Theoretical Computer Science, volume 698, pages 40–66, 2017.*
- J12. L. GEORGIADIS, G. F. ITALIANO, L. LAURA AND N. PAROTSIDIS 2-Edge Connectivity in Directed Graphs. *ACM Transactions on Algorithms (TALG), volume 13, issue 1, pages 9:1–9:24, 2016.*
- J11. L. GEORGIADIS AND R. E. TARJAN Addendum to “Dominator Tree Certification and Divergent Spanning Trees” (A Note on Fault Tolerant Reachability for Directed Graphs). *ACM Transactions on Algorithms (TALG), volume 12, issue 4, pages 56:1–56:3, 2016.*
- J10. L. GEORGIADIS AND R. E. TARJAN Dominator Tree Certification and Divergent Spanning Trees. *ACM Transactions on Algorithms (TALG), volume 12, issue 1, pages 11:1–11:42, 2015.*
- J9. D. FIRMANI, L. GEORGIADIS, G. F. ITALIANO, L. LAURA AND F. SANTARONI Strong Articulation Points and Strong Bridges in Large Scale Graphs. *Algorithmica, volume 74, number 3, pages 1123–1147, 2016.*
- J8. L. GEORGIADIS, S. D. NIKOLOPOULOS AND L. PALIOS Join-Reachability Problems in Directed Graphs. *Theory of Computing Systems (TOCS), volume 55(2), pages 347–379, 2014.* Special issue on selected papers from CSR 2011.
- J7. W. FRACZAK, L. GEORGIADIS, A. MILLER, AND R. E. TARJAN Corrections to “Finding Dominators via Disjoint Set Union”, *JDA, volume 26, pages 106–110, 2013.* (Fixed minor bugs and provided some code optimizations.)
- J6. W. FRACZAK, L. GEORGIADIS, A. MILLER, AND R. E. TARJAN Finding Dominators via Disjoint Set Union. *Journal of Discrete Algorithms (JDA), volume 23, pages 2–20, 2013.*
- J5. L. GEORGIADIS, H. KAPLAN, N. SHAFRIR, R. E. TARJAN AND R. F. WERNECK Data Structures for Mergeable Trees. *ACM Transactions on Algorithms (TALG), volume 7, issue 2, pages 14:1–14:30, 2011.*

- J4. B. V. CHERKASSKY, L. GEORGIADIS, A. V. GOLDBERG, R. E. TARJAN AND R. F. WERNECK Shortest Path Feasibility Algorithms: An Experimental Evaluation. *ACM Journal on Experimental Algorithmics (ACM JEA) invited paper*, volume 14, issue 2, pages 7–37, 2009. Special issue on selected papers from ALENEX 2008.
- J3. G. S. BRODAL, L. GEORGIADIS AND I. KATRIEL An $O(n \log n)$ Version of the Averbakh-Berman Algorithm for Robust Median of a Tree. *Operations Research Letters (ORL)*, volume 36, number 1, pages 14–18, 2008.
- J2. A. L. BUCHSBAUM, L. GEORGIADIS, H. KAPLAN, A. ROGERS, R. E. TARJAN AND J. R. WESTBROOK Linear-Time Algorithms for Dominators and Other Path-Evaluation Problems. *SIAM Journal on Computing (SICOMP)*, volume 38, number 4, pages 1533–1573, 2008.
- J1. L. GEORGIADIS, R. E. TARJAN AND R. F. WERNECK Finding Dominators in Practice. *Journal of Graph Algorithms and Applications (JGAA) invited paper*, volume 10, number 1, pages 69–94, 2006. Special issue on selected papers from the Engineering and Applications Track of ESA 2004.

Books

- B3. L. GEORGIADIS, S. NIKOLOPOULOS AND L. PALIOS Data Structures. *Kallipos*, 2015.
- B2. S. NIKOLOPOULOS, L. PALIOS AND L. GEORGIADIS Algorithmic Graph Theory. *Kallipos*, 2015.
- B1. T. D. LAGKAS, P. ANGELIDIS AND L. GEORGIADIS (EDITORS) Wireless Network Traffic and Quality of Service Support: Trends and Standards. *IGI Global*, 2010.

Theses Supervised

Department of Computer Science & Engineering, University of Ioannina.

- Konstantinos Giannis, “Decremental Dominators and Low-High Orders in DAGs”, MSc thesis, 2018.
- Aikaterini Karanasiou, “Applications of Low-High Orders of Directed Graphs”, MSc thesis, 2016.
- Nikos Parotsidis, “2-Connectivity in Directed Graphs”, MSc thesis, 2015.
- Supervised six senior undergraduate theses.

Department of Informatics & Telecommunications Engineering, University of Western Macedonia.

- Supervised three senior undergraduate theses.

Teaching

Department of Computer Science & Engineering, University of Ioannina

Advanced Algorithm Design, Spring 2012, 2013, 2015, 2018, 2019.

Advanced Topics in Algorithms: Algorithms for Data Science, Spring 2018, 2019. (Graduate course).

Advanced Topics in Algorithms: Algorithms in the “Real World”, Spring 2015, 2017. (Graduate course).

Algorithmic Graph Theory, Spring 2014. (Graduate course).

Discrete Mathematics, Spring 2014, 2017.

Data Structures, Fall 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019.

Hellenic Open University

Discrete Mathematics and Mathematical Logic, 2014–2019.

Department of Informatics & Telecommunications Engineering, University of Western Macedonia

Discrete Mathematics, Spring 2009, 2010, 2011.

Advanced Algorithms and Data Structures, Spring 2009, 2010, 2011.

Algorithms and Data Structures, Fall 2008, 2009, 2010, 2011.

Algorithm Design and Analysis, Fall 2008, 2009, 2010, 2011.

Supervised three senior theses, 2009–2011.

Department of Computer Science, Princeton University

COS 423: Theory of Algorithms (taught by Prof. R. E. Tarjan), Spring 2004. Guest Lecturer.

COS 528: Data Structures and Graph Algorithms (taught by Prof. R. E. Tarjan), Fall 2003 and Fall 2005. Guest Lecturer.

COS 226: Data Structures and Algorithms (taught by Prof. R. Sedgwick), Spring 2001. Teaching Assistant.

COS 323: Computing for the Physical and Social Sciences (taught by Prof. K. Steiglitz), Fall 2000. Teaching Assistant.

Department of Computer Engineering & Informatics, University of Patras

Scientific Computing (taught by Prof. E. Gallopoulos), Spring 2000, Teaching Assistant.

Languages

Greek (native)

English (fluent)

German (basic)

Italian (basic)

Antonio Grillo

11 Maggio 1982

Tel. +39 329 6548401**e-mail** antonio.grillo.82@gmail.com

EMBA Candidate

Ph.D in Ingegneria informatica e dell'automazione

General Manager mashfrog Spa - mashfrog.com

CEO Robet Srl - robet.io

**In breve**

Manager con esperienza nel coordinamento e nella supervisione delle attività operative di piccole e medie imprese. Eccellente comunicatore con carisma e una spiccata leadership. Formazione ingegneristica con focalizzazione sulla sicurezza mobile. Grande capacità di risoluzione di problemi complessi e eterogenei applicando giudizio critico e decisioni efficaci. Ha oltre 5 anni di esperienza in posizioni rilevanti e ha gestito oltre 200 persone con la responsabilità dello sviluppo sia delle soft che delle hard skills. Organizza academy sulle tecnologie emergenti per mantenere la workforce adeguata alle competenze richieste da nuove attività progettuali. Coordina la partecipazione, la preparazione e la presentazione di progetti finanziati banditi da enti Italiani ed Europei. Partecipa al comitato esecutivo di gruppo per identificare e valutare nuove opportunità di investimento.

Esperienza Didattica

Docenza sul tema "Internet of Things" nel programma "Generazione Cultura" presso l'Università LUISS Guido Carli in collaborazione con Lottomatica

NOV 2017

Docente sui temi "Internet of Things & App Economy" nel programma formativo "Go International" presso Unicredit S.p.a.

**MAG 2017
in corso**

Docenza sul tema "App Economy" nel Master of Arts, Master of Music and Music Management, Master Food & Wine Business presso la Business School dell'Università LUISS Guido Carli

**GEN 2014
in corso**

Docente sui temi "Mobile Security & Forensic" nei workshop organizzati da RayTalk Industries San Marino

**GEN 2010
GIU 2012**

Filippo Bontadini Personal CV 2020

Birthday: 19/09/1989

Nationality: Italian

Residence: Nice, France/Rome, Italy

Current Position and affiliations

- 03/2019 – current OFCE Science Po – Postdoctoral Research Fellow on Trade in Green Goods, funded by INNOPATHS Horizon 2020 Research Project.
- 08/2019 – current Associate Fellow at the Science Policy Research Unit (SPRU) at the University of Sussex.

Past Professional experiences

- 06/2017 – 02/2019 Research Assistant at the Institute of Development Studies (IDS) on linking into Global Value Chains and SITA project (funded by DFID)
- 07/2018 – 09/2018 Research Assistant at Interanalysis on R programming for partial equilibrium modelling on a project funded by the UK Department for International Trade (DIT).
- 10/2018 – 05/2019 Research Assistant at SPRU on the Horizon 2020 Research Project RISIS.
- 09/2017 – 12/2018 Academic Tutor at IDS on “Economic Perspectives on Development”.
- 10/2017 – 06/2018 Research Assistant and Graduate Teaching Assistant (GTA) at SPRU in charge of seminars in Entrepreneurship; Innovation for Economic Development and Introduction to Statistical Research Methods.

Training and Education:

- 2014 – 2019 University of Sussex – PhD Candidate in Science and Technology Policy Studies at the Science Policy Research Unit (SPRU).
Thesis title: *Trade and Economic Development in Global Value Chains: Insights from Input-Output Analysis and Customs Transaction Level Data*.
Thesis submitted on 06/12/2018 - Viva voce passed with minor corrections
- 07-09/2016 Summer school on Economies in Latin-America – UN Economic Commission for Latin America and the Caribbean
- 2011-2013 Dual Master Degree between SciencesPo Bordeaux and University of Turin.
MSc Development, Environment and Cooperation – Economics Department of University of Turin pass with *summa cum laude*.
MSc Applied Geo-Economics – SciencesPo Bordeaux. Pass with full marks and honours (top 3% of the academic year).
- 2009-2011 BAs in International Studies, Development and Cooperation at the University of Turin - 110/110 cum laude

Awards and Scholarships:

- International J.A. Schumpeter Society Prize, awarded to the paper “Countries’ Trade Specialisation and Performance in Global Value Chains” presented at EMAEE 2017 in Strasbourg, France
- Graduate Teaching Assistantship at the University of Sussex

- Optime Prize 2014 and 2012, awarded by Turin's Industrial Federation to the best graduates from the University of Turin.
- Scholarship from the French-Italian University awarded to the best students enrolled in a double degree programme between France and Italy.

Conferences and workshops:

- European Association of Environmental and Resource Economics (EAERE) annual conference, 22/06-03/07, online.
- Input-Output Association annual conference 02-05 July 2019, Glasgow UK.
- European Meeting on Applied Evolutionary Economics (EMAEE) 03-05 June 2019, SPRU.
- Input-Output Association Workshop 12-13 March 2018, University of Bremen
- Nordic Institute for Studies in Innovation, Research and Education (NIFU) Workshop on Industrial Dynamics "The dynamics of technology, trade and regional economic restructuring", 22 September 2017, Oslo.
- European Trade Study Group annual conference 14-15 September 2017, University of Florence, Italy
- Uddevalla Symposium 15-16 June 2017 Trollhättan University, Sweden
- EMAEE 31 May-1 June University of Strasbourg, France – awarded prize for best paper by a young scholar by the International J.A. Schumpeter Society.
- "Input-Output and Multi-sectoral Analysis: Theory and Applications", 16-17 May 2017 Open University, Milton Keynes, UK
- "Services, Technology and Trade", REDLAS annual conference 03-05 Oct 2016, Mackenzie University, Sao Paulo, Brazil.

Refereeing activity for peer-review:

Research Policy; Journal of Evolutionary Economics; European Journal of Development Research; International Journal of Business and Globalisation.

Programming skills:

I am proficient in the use of R to manage, clean manipulate and analyse large datasets, especially for firm, production and trade data, using matrix algebra, string and character matching as well as a range of web-scraping techniques. I have good knowledge of SPSS and STATA in particular to carry out econometric analysis.

Other skills and competences

Languages

Italian	Native
English	Very Fluent – IELTS 7.5
French	Very Fluent – TCF (Test de connaissance du français) C2 level.
Spanish	Fluent
Dutch	Fluent

Other experiences:

- Member of the local organising committee of the 2016 Royal Economic Society Symposium of Junior Researchers, held at the dept. of Economics at the University of Sussex on 24 March 2016.
- Member of the Friday Seminar organising team at SPRU, University of Sussex.

Docenza sui temi "Mobile Forensic" in giornate di formazione per la Polizia Postale Italiana, Carabinieri e European Police EUROPOL Internet presso la Facoltà di Ingegneria dell'Università di Roma "Tor Vergata"

GEN 2008
DIC 2010

Docenza sul tema "Sicurezza su dispositivi mobili" nei workshop di Information Systems Audit and Control Association (ISACA) Chapter of Rome

NOV 2007
GIU 2011

Assistenza alla docenza dei corsi della Laurea Triennale di Ingegneria Informatica Fondamenti di Informatica 1, Fondamenti di Informatica 2 e dei corsi della Laurea Specialistica in Ingegneria Informatica Algoritmi e Strutture Dati, Sicurezza Informatica e Internet presso la Facoltà di Ingegneria dell'Università di Roma "Tor Vergata"

NOV 2007
GIU 2011

Esperienza Lavorativa

General Manager di mashfrog S.p.a.

1. Responsabile per il posizionamento e l'evoluzione strategica dell'offerta digital del gruppo; responsabile per il coordinamento congiunto delle funzioni delivery & sales.
2. Responsabile per l'attuazione delle sinergie operative con le aree di delivery delle imprese oggetto di acquisizione/fusione al fine di garantire un reparto produttivo unificato in grado di assorbire il carico di lavoro discontinuo e abbattere le percentuali di idle della workforce.
3. Responsabile nella valutazione di operazioni di finanza straordinaria per la due diligence operativa nella acquisizione di due imprese operanti nel medesimo settore.
4. Responsabile per la definizione dei target di commercializzato e fatturato e del relativo budget mensilizzato ripartito per aree di business.
5. Responsabile per la pianificazione dei fabbisogni operativi in termini di delivery e sales in relazione ai target di fatturato e commercializzato.
6. Responsabile della qualità di tutte le attività inerenti alle aree di delivery & sales.
7. Coinvolto nell'interazione con le prime linee manageriali, CFO ed HR Director, per concordare i piani di azione sulle tematiche

OTT 2020
in corso

amministrative, economico/finanziare e di gestione delle risorse umane in relazione all'area di competenza.

Digital Managing Director di mashfrog S.p.a.

1. Responsabile per il posizionamento, l'evoluzione il P&L di tutti i dipartimenti digital del gruppo: digital communication & marketing, frontend & backend solution, video, graphic & service design.
2. Responsabile per l'attuazione delle sinergie operative con le aree di delivery delle imprese oggetto di acquisizione/fusione al fine di garantire un reparto produttivo unificato in grado di assorbire il carico di lavoro discontinuo e abbattere le percentuali di idle della workforce.
3. Responsabile nella valutazione di operazioni di finanza straordinaria per la due diligence operativa nell'acquisizione di due imprese operanti nel medesimo settore.
4. Responsabile per la revisione della struttura organizzativa per una migliore correlazione tra ruoli e responsabilità aziendali e necessità delle aree di delivery & sales dell'impresa.
5. Responsabile per l'introduzione del Project Management Office e della standardizzazione della documentazione di monitoraggio e controllo per garantire una reportistica aggregata e granulare sull'andamento delle commesse e attivare proattivamente azioni di ottimizzazione e/o abbattimento dei costi.
6. Responsabile della qualità di tutte le attività inerenti alle aree di delivery & sales.
7. Coinvolto nell'interazione con le prime linee manageriali, CFO ed HR Director, per concordare i piani di azione sulle tematiche amministrative, economico/finanziare e di gestione delle risorse umane in relazione all'area di competenza.

CTO di 4Switch S.r.l. - BOD Member

Responsabile per il completo ciclo di vita di DRUX la piattaforma completamente digitale per la credit collection nel settore regolamentato delle utilities.

COO Omnichannel Suite Director di mashfrog S.p.a. - BOD Member

Responsabile per il posizionamento e l'evoluzione di tutte le unità del gruppo: digital communication & marketing, frontend & backend development, video, graphic & service design e enterprise integration.

**OTT 2018
SET 2020**

**GEN 2019
AGO 2019**

**APR 2017
OTT 2018**

Consulente strategico di AlphieWealth S.r.l. – Shareholder

1. Responsabile per il posizionamento strategico della piattaforma Selfiewealth e per gli spinoff RobotAdvisorCoin e Robet ICOs e la piattaforma Bookiedom.
2. Coinvolto nell'operazione di finanza straordinaria per il reverse takeover da parte di UCapital 24 che ha portato l'azienda alla quotazione all'AIM.

CEO of Robet S.r.l. - Co-Founder and Shareholder

1. Responsabile della gestione dell'impresa per tutti gli aspetti finanziari, commerciali ed operativi.
2. Responsabile per la definizione dei target di commercializzato e fatturato e del relativo budget mensilizzato ripartito per aree di business.
3. Responsabile per la pianificazione dei fabbisogni operativi in termini di delivery e sales in relazione ai target di fatturato e commercializzato.
4. Responsabile della qualità di tutte le attività inerenti alle aree di delivery & sales.
5. Responsabile nella valutazione di operazioni di finanza straordinaria nella acquisizione di un'impresa operante nel medesimo settore.
6. Responsabile della relazione con gli investitori istituzionali per la presentazione, monitoraggio e rendicontazione delle domande di finanza agevolata.
7. Responsabile della relazione con le istituzioni bancarie per l'attivazione e la gestione delle linee di credito a breve, medio e lungo termine utili al funzionamento dell'impresa.
8. Responsabile della relazione con i consulenti per l'area contabilità, legale e lavoro, per concordare i piani di azione sulle tematiche amministrative, economico/finanziarie, giuridiche e di gestione delle risorse umane.

**DIC 2015
in corso**

**GIU 2015
in corso**

Project Manager di mashfrog S.p.a.

Responsabile per la gestione dei progetti nel settore delle soluzioni mobile con clienti come Enel, Generali, Telecom Italia, Telecom Italia Mobile, LUISS, Siemens, RCS MediaGroup, AXA MPS, Class Editore, etc.

GIU 2011
SET 2020

Project Manager di Robet S.r.l.

Responsabile per la gestione dei progetti nel settore delle soluzioni mobile con clienti come Eni, Credemtel, Techedge, etc.

MAR 2009
SET 2020

Formazione

Executive Master in Business Administration EMBA

Luiss Business School

APR 2019
-

Contratto di Ricerca

"Security and privacy issues in reputational system for mobile payment solutions" presso l'Università di Roma "Tor Vergata"

MAR 2017
MAR 2018

Ph.D. in Ingegneria Informatica e dell'Automazione

TIMID: Transferring Identities to Mobile Devices

NOV 2007
GIU 2011

Tutor: Prof. G. F. Italiano - Università di Roma "Tor Vergata"

Qualifica professionale di Ingegnere

OTT 2007

Laura Specialistica in Ingegneria Informatica con Lode

Sistema per la gestione automatica dei test: Common Core emulazione di componenti hard-soft

SET 2004
MAG 2007

Tutor: Prof. G. Cantone - Università di Roma "Tor Vergata"

Supervisor: Ing. C. Di Biagio, Ing. G. Pennella - MBDA Italia

A. Grillo, G. Cantone, C. Di Biagio, G. Pennella. "Automatic Test Management of safety-critical systems: the common core, behavioural emulation of hard-soft components". Proceedings of the International Conference on Software and Data Technologies (ICSOF 07). Barcelona, Spain, 22th July 2007

Laura Triennale in Ingegneria Informatica con Lode

SVDOL1.0: Sistema per la Valutazione della Didattica On-Line Tutor: Prof. G. F. Italiano - Università di Roma "Tor Vergata"

SET 2001
NOV 2004

Ricerca

- Massimo Bernaschi, Antonio Grillo, Alessandro Lentini, and Gianluigi Me. Virtual Parent: uno strumento per il controllo delle sessioni di Microsoft Messenger. In Terzo workshop italiano su PRiVacy e SEcurity - PRISE 08, 2008.
- Rosamaria Bertè, Antonio Grillo, Alessandro Lentini. Social network ed instant messaging, minacce e contromisure. *ICT Security*, 8(70):58–62, January 2009.
- Alessandro Distefano, Antonio Grillo, Alessandro Lentini, Gianluigi Me, and Davide Tulimiero. Mobile forensics data integrity assessment by event monitoring. *Small Scale Digital Device Forensic Journal (SSDDFJ)*, 4(1), 2010.
- Antonio Grillo, Alessandro Lentini, Gianluigi Me, and Matteo Ottoni. Fast user classifying to establish forensic analysis priorities. In 5th International Conference on IT Security Incident Management and IT Forensics, IMF 09, Stuttgart, Germany, September 2009.
- Antonio Grillo, Alessandro Lentini, Maurizio Naldi, and Giuseppe F. Italiano. Penalized second price: A new pricing algorithm for advertising in search engines. In 8th Annual Conference on Communication Networks and Services Research, CNSR 2010, Montreal, Canada, May 2010.
- Maurizio Naldi, Antonio Pavignani, Antonio Grillo, Alessandro Lentini, and Giuseppe F. Italiano. The competitor busting strategy in keyword auctions: who's worst hit? In Ninth Annual Conference on Communication Networks and Services Research (CNSR 2011), 2011.
- Maurizio Naldi, Antonio Pavignani, Antonio Grillo, Alessandro Lentini, and Giuseppe F. Italiano. A model for the dynamics of bidders in the simulation of keyword auctions. In UKSim 13th International Conference on Computer Modeling and Simulation (UKSim2011), 2011.
- Antonio Grillo, Alessandro Lentini, and Gianluigi Me. Mobile information warfare: a countermeasure to privacy leaks based on SecureMyDroid. In VII Conference of the Italian Chapter of AIS, Italian Association for Information System, Naples - Italy, October 2010
- Antonio Grillo, Alessandro Lentini, and Gianluigi Me. Mobile information warfare: a countermeasure to privacy leaks based on SecureMyDroid. *Information Technology and Innovation Trends in Organizations*, Springer, to appear, June 2011.
- Rosamaria Bertè, Fabio Dellutri, Antonio Grillo, Alessandro Lentini, Gianluigi Me, and Vittorio Ottaviani. Fast smartphones forensic analysis results through miat and forensic farm. *International Journal of Electronic Security and Digital Forensics, IJESDF*, 2(1):18–28, 2009.

- Rosamaria Bertè, Fabio Dellutri, Antonio Grillo, Alessandro Lentini, Gianluigi Me, and Vittorio Ottaviani. A methodology for smartphones internal memory acquisition, decoding and analysis. In G. Me H. Jahankhani, D. LilburnWatson, editor, Handbook of Electronic Security and Digital Forensics, pages 383–394. Worldscience, 2009.
- V.Ottaviani, A. Lentini, A. Grillo, S. Di Cesare, G.F. Italiano, "Shared Backup and Restore";, New Technologies and Services Track NTMS 2011, Paris, France, 07-10 February, 2011
- G.F. Marias, J. Barros, M. Fiedler, R. Herkenhoener, A. Grillo, A. Lentini, L. Lima, C. Lorentzen, W. Mazurczyk, H. de Meer, P. F. Oliveira, G.C. Polyzos, E. Pujol, K. Szczypiorski, J.P. Vilela, and T.T.V Vinhoza. Security and privacy issues for the network of the future. Security and Communication Networks, 'submitted', 2011.
- Grillo, A. Lentini, M. Naldi, G.F. Italiano "Security in a mobile environment / Attack techniques on mobile devices", Trust, Privacy and Security, Network of excellence: EURO-NF
- Antonio Grillo, Alessandro Lentini, and Giuseppe F. Italiano. Benchmarking Single Board Computing Platform. Technical report, University of Rome Tor Vergata, 2009.
- Antonio Grillo, Alessandro Lentini, and Gianluigi Me. Bluetooth Proximity based Authentication Secure System (BPASS). Technical report, University of Rome Tor Vergata, 2008.
- Antonio Grillo, Alessandro Lentini, Maurizio Naldi, and Giuseppe F. Italiano. Network Centric Warfare, Command and Control. Technical report, University of Rome Tor Vergata, 2010.
- Antonio Grillo, Alessandro Lentini, and Paolo Spagnoletti. Innovative lift remote controller (ilrc). Technical report, University of Rome Tor Vergata, 2009.
- G.F. Italiano, A.Grillo, A.Lentini, V.Ottaviani, "Benchmarking for the QP Cryptographic Suite";, Technical report, University of Rome Tor Vergata, 2009.
- Alessandro Distefano, Antonio Grillo, Alessandro Lentini, Gianluigi Me, and Riccardo Galbani. Exploitation of secrets injected in java midlets. In 5th International Conference on Global Security, Safety and Sustainability, ICGS3 09, University of East London, Docklands, UK, September 2009.
- Antonio Grillo, Alessandro Lentini, and Gianluigi Me. B-POS Secure Mobile Payment System. In Encyclopedia of Information Ethics and Security, pages 55–61. Information Science Reference, 2007.

- Antonio Grillo, Alessandro Lentini, and Gianluigi Me. B-POS Secure Mobile Payment System. In *Mobile Computing: Concepts, Methodologies, Tools, and Applications*, volume 3. Information Science Reference, 2009
- Antonio Grillo, Alessandro Lentini, Gianluigi Me, and Giuseppe F. Italiano. Transaction oriented text messaging with Trusted-SMS. In *Proceedings of the Annual Computer Security Applications Conference (ACSAC 08)*, Anaheim, California USA, December 2008.
- Antonio Grillo, Alessandro Lentini, Gianluigi Me, and Giuliano Rulli. Trusted SMS, a novel framework for non repudiable SMS-based processes. In *Proceedings of the International Conference on Health Informatics (HEALTHINF 08)*, Madeira, Portugal, January 2008
- Antonio Grillo, Alessandro Lentini, Vittorio Ottaviani, Giuseppe F. Italiano, and Fabrizio Battisti. *SAVED: Secure Android Value added services*. In *International Workshop on Mobile Security 2010 in MobiCASE 2010 Mobile Computing, Applications, and Services*, Santa Clara, CA, USA, October 2010.
- Alessandro Distefano, Antonio Grillo, Alessandro Lentini, and Giuseppe F. Italiano. *SecureMyDroid: Enforcing Security in the Mobile Devices Lifecycle*. In *6th Annual Cyber Security and Information Intelligence Research Workshop, CSIIRW 2010*, Oak Ridge, TN, USA, April 2010
- Antonio Grillo, Alessandro Lentini, Marco Querini, and Giuseppe F. Italiano. *High Capacity Colored Two Dimensional code (HCC2D)*. In *3rd International Symposium on Multimedia - Applications and Processing (MMAP10)*, Wisla, Poland, October 2010.
- Marco Querini, Antonio Grillo, Alessandro Lentini, and Giuseppe F. Italiano. *2D Color Barcodes for mobile phone*. *International Journal of Computer Science and Applications*, 2011.

Lingue	
Italiano	Madrelingua
Inglese	Buono