

Curriculum Vitae

Roberto Tamassia

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Brief Biography

Roberto Tamassia is the Plastech Professor of Computer Science at Brown University. He is also the Director of Brown’s Center for Geometric Computing and the Executive Director of Brown’s Executive Master in Cybersecurity. He previously served as the Chair of Brown’s Department of Computer Science. His research interests include data security, applied cryptography, analysis, design, and implementation of algorithms, graph drawing and computational geometry. He has published seven books and more than 250 peer-reviewed research articles in the above areas and has given more than 70 invited lectures worldwide. He has been granted 11 patents as an inventor. He is an AAAS Fellow, ACM Fellow, and IEEE Fellow and the recipient of a Technical Achievement Award from the IEEE Computer Society for pioneering the field of graph drawing. He has been listed among the 360 most cited computer science authors by Thomson Scientific, Institute for Scientific Information (ISI). He serves regularly on program committees of international conferences. His research has been funded by ARO, DARPA, NATO, NSF, and several industrial sponsors (including Google, Microsoft, NetApp, and Sun Microsystems). He received the Ph.D. degree in electrical and computer engineering from the University of Illinois at Urbana-Champaign.

Education

- 88 Ph.D. in Electrical and Computer Engineering, University of Illinois at Urbana-Champaign.
Advisor: Franco P. Preparata. Thesis Topic: “Dynamic Data Structures for Two-Dimensional Searching.”
- 84 “Laurea” (M.S.) in Electrical Engineering, University of Rome “La Sapienza.”
Advisor: Carlo Batini. Thesis Topic: “Layout Algorithms and Tools.”

Current Professional Appointments

- 09– Plastech Professor of Computer Science, Brown University
- 00– Director, Center for Geometric Computing, Brown University
- 15– Executive Director, Executive Master’s in Cybersecurity, Brown University

Previous Professional Appointments

- 07–14 Chair, Department of Computer Science, Brown University

- 98–09 Professor of Computer Science, Brown University
- 99–01 Adjunct Professor Department of Computer Science Johns Hopkins University
- 93–98 Associate Professor, Department of Computer Science, Brown University
- 88–93 Assistant Professor, Department of Computer Science, Brown University
- 92 Visiting Associate Professor, Dipartimento di Informatica e Sistemistica, University of Rome “La Sapienza”
- 92 Visiting Associate Professor, Istituto di Analisi dei Sistemi ed Informatica, Italian National Research Council
- 88–89 Affiliated Research Faculty, Computer Learning Research Center, The University of Texas at Dallas
- 86–88 Research Assistant, Coordinated Science Laboratory, University of Illinois at Urbana-Champaign
- 85 Fulbright Grantee, Coordinated Science Laboratory, University of Illinois at Urbana-Champaign
- 84–85 Research Associate, Dipartimento di Informatica e Sistemistica, University of Rome “La Sapienza”

Awards and Honors

- 12- *Fellow, American Association for the Advancement of Science, (AAAS)*
- 12- *Fellow, Association for Computing Machinery, (ACM)*
- 09- *Fellow, Institute of Electrical and Electronics Engineers, (IEEE)*
- 06- *Highly Cited Researcher in Computer Science*, Thomson Scientific, Institute for Scientific Information (ISI). Listed among the 319 most cited computer science authors worldwide.
- 06 *Technical Achievement Award*, IEEE Computer Society. Citation: “For pioneering the field of graph drawing and for outstanding contributions to the design of graph and geometric algorithms.”
- 06 Award for Technological Innovation, Brown University
- 97–98 Biographee in *Who’s Who in the East*
- 90–92 ACM lecturer
- 87 AICA (Italian Association for Computer Science) Award for Best Research Work in Computer Science, for the paper “On Embedding a Graph in the Grid with the Minimum Number of Bends”
- 85 Fulbright Grantee
- 84 Graduation *cum laude*, University of Rome, “La Sapienza”

Teaching

- 20 CS 157 Design and Analysis of Algorithms (Brown University) [[course site](#)]
- 16-20 CS 166 Computer Systems Security (Brown University) [[course site](#)]
- 16-20 CS 162 Computer Systems Security Lab (Brown University) [[course site](#)]
- 12- CS 2951E Topics in Computer Systems Security (Brown University) [[course site](#)]
- 20-21 EMCS 2010 Applied Cryptography and Data Privacy (Brown University, Executive Master in Cybersecurity)
- 17-21 EMCS 2020 Advanced Topics in Computer Security (Brown University, Executive Master in Cybersecurity)
- 06-12 CS 166 Introduction to Computer Systems Security (Brown University)
- 89-05 CS 252 Computational Geometry (Brown University) [[course site](#)]
- 88-06 CS 16 Algorithms and Data Structures (Brown University)

- 92 Computational Geometry (University of Rome)
- 84-85 Data Structures and Pascal Programming (University of Rome)

Expert Witness Consulting

- 2018 Williams & Connolly LLP
- 2016 Haynes and Boone LLP
- 2015-17 Sidley Austin LLP
- 2012 Stack & O'Connor Chartered

Scientific Consulting

- 00-03 Algomagic Technologies, Inc.
- 91-93 Arthur Andersen & Co., Chicago, Illinois
- 89 Cadre Technologies, Inc., Providence, Rhode Island
- 88 Digital Equipment Corporation, Colorado Springs, Colorado
- 85 Datamat, S.p.A., Rome, Italy
- 85 ENIDATA, S.p.A., Milan, Italy
- 84 Data Base Informatica, S.p.A., Rome, Italy
- 83 ISDOS, Inc., Ann Arbor, Michigan

Government Review Boards and Committees

National Science Foundation, panelist and reviewer

Army Research Office, reviewer

Natural Sciences and Engineering Research Council of Canada, reviewer

Ontario Council on Graduate Studies, appraiser

Australian Research Council, reviewer

Australian Academy of Science, reviewer

Italian Ministry of Education, University and Scientific Research, member of Board of Experts

Research Interests

Computer Security

Cloud Security

Network Security

Applied Cryptography

Analysis, Design, and Implementation of Algorithms

Graph Algorithms

Spatial Algorithms and Systems

Graph Drawing and Visualization

Computational Geometry

Computer Science Education

Research Grants and Corporate Gifts

- 17 NetApp, \$30,000
- 16–19 National Science Foundation, “Collaborative Research: Mapping and Querying Underground Infrastructure Systems,” Synergy award, Cyber-Physical Systems (CPS) program, CNS–1645661, PI, \$205,000.
- 15–17 National Science Foundation, “Practical Security Protocols via Advanced Data Structures,” CNS–1525044, PI, \$166,654.
- 12–17 National Science Foundation, “Moving Objects Databases for Exploration of Virtual and Real Environments,” IIS–1212508, PI, \$250,000.
- 12–17 National Science Foundation, “Privacy-Preserving Distributed Storage and Computation,” CNS–1228485, PI, \$400,169.
- 12 NetApp, \$40,000
- 10–15 National Science Foundation, “Towards Trustworthy Interactions in the Cloud,” CNS–1012060, PI (with Anna Lysyanskaya and Rodrigo Fonseca), \$1,000,000.
- 10 NetApp, \$40,000

- 09 Google, \$50,000 (with John Tyler)
- 09 NetApp, \$40,000
- 08–13 National Science Foundation, “Algorithms for Graphs on Surfaces,” CCF–0830149, PI, \$199,999.
- 07–11 National Science Foundation, “Trust Management for Open Collaborative Information Repositories: The CalSWIM Cyberinfrastructure,” OCI–0724806 (with Cristina Lopes, Michael T. Goodrich and Stanley Grant), co-PI, \$1,090,465.
- 07–09 National Science Foundation, “Privacy Management, Measurement, and Visualization in Distributed Environments,” IIS-0713403, PI, \$224,995.
- 07 IAM Technology, Inc., \$37,500
- 03–08 National Science Foundation, “Context-Aware Computing with Applications to Public Health Management,” IIS-0324846, \$399,000. (This medium ITR project is in collaboration with Isabel F. Cruz and Peter Scheuermann, and has an overall funding of \$2M.)
- 03–06 National Science Foundation, “An Algorithmic Approach to Cyber-Security,” CCR-0311510, \$100,000.
- 06 IAM Technology, Inc., \$131,000.
- 03–06 National Science Foundation, “The Brown Internet Computing Laboratory,” EIA-0303577 (with Steven P. Reiss, Eliezer Upfal, Maurice Herlihy, and Shriram Krishnamurthi), \$640,000.
- 05 IAM Technology, \$32,500.
- 03–04 Sun Microsystems, \$20,000.
- 03–04 National Science Foundation, “Teaching Data Structures to the Millennial Generation,” DUE–0231202, \$124,999.
- 04 IAM Registry Corporation, \$30,000.
- 03 Sun Microsystems (with Thomas W. Doepfner), \$20,000.
- 01–04 National Science Foundation, “Graph Visualization and Geometric Algorithm Design,” CCR–0098068 (with Michael T. Goodrich), \$400,000.
- 00–03 Defense Advanced Research Projects Agency, “Efficient and Scalable Infrastructure Support for Dynamic Coalitions,” F30602–00–2–0509 (with Michael T. Goodrich and Robert F. Cohen), \$1,497,376.
- 98–02 National Science Foundation, “Geometric Algorithm Design and Implementation,” CCR–9732327, \$230,991.
- 97–03 National Science Foundation, “A Networked Computing Environment for the Manipulation and Visualization of Geometric Data,” Research Infrastructure Grant CDA-97-03080 (with Lawrence B. Wolff et al.), \$1,226,127.
- 99 Microsoft Research, \$8,000.
- 96 Tom Sawyer Software, Inc., \$40,000.
- 95–01 Army Research Office, “Applicable and Robust Geometric Computing” (with P. Agarwal, R. Kosaraju, M. T. Goodrich, F. P. Preparata, and J. S. Vitter), DAAH04–96–1–0013, \$4,484,247.
- 95–98 National Science Foundation, “Graph Drawing,” CCR–9423847, \$225,107.

- 94–95 NATO Scientific Affairs Division, “Algorithms for Graph Connectivity” (with G. Di Battista and A. Kanevsky), \$6,000.
- 93–96 Army Research Office, “High Performance Algorithms for Computational Geometry” (with Jeffrey S. Vitter), DAAH04–93–G–0134, \$65,000.
- 91–94 National Science Foundation, “Algorithmic Issues in High Performance Computing” (with Jeffrey S. Vitter), CCR–9007851, \$346,802.
- 91–93 Army Research Office, “Algorithmic Issues in High Performance Computing” (with Jeffrey S. Vitter), DAAL03–91–G–0035, \$150,000.
- 91–93 Office of Naval Research and Defense Advanced Research Projects Agency, “High-Performance Design Environments” (with E. Charniak, T.W. Doeppner, J. Hughes, P.C. Kanellakis, P.N. Klein, D.P. Lopresti, F.P. Preparata, S.P. Reiss, J.E. Savage, A. van Dam, P. Van Hentenryck, J.S. Vitter, P. Wegner, F.K. Zadeck, and S.B. Zdonik), N00014–91–J–4052, ARPA order 8225, \$2,654,835.
- 91–93 NATO Scientific Affairs Division, “Algorithms for Graph Connectivity” (with G. Di Battista and A. Kanevsky), \$6,708.
- 91 AT&T Foundation, “Parallelism in Instructional Computing,” \$10,000
- 91 Cadre Technologies, Inc., \$10,000
- 89 Cadre Technologies, Inc., \$25,000

Postdoctoral Associates and Research Associates

Bernardo Palazzi (January 2007 – April 2010)

Luca Vismara (May 1996 – December 1997, June 2000 – August 2003)

Michael Shin (February 2002 – May 2002)

David Emory (July 2001 – August 2002)

Andrea Carmignani (February 2001 – July 2001)

Ulrik Brandes (July 1999 – December 1999)

Ashim Garg (January 1986 – August 1997)

Giuseppe Liotta (May 1995 – October 1996)

Maurizio Pizzonia (May 1998 – December 1998)

Graduate Students

Evangelia-Anna Markatou (Ph.D., current)

Sam Boger (Sc.M., 2021)

Shubha Dahal (E.M., 2020)

Yingjie Xue (Ph.D.)

Evgenios M. Kornaropoulos (Ph.D., 2019)

Nick Cunningham (Sc.M., 2019)

Winifred Black (E.M., 2018)
Jared Nussbaum (E.M., 2018)
Esha Ghosh (Ph.D., 2018)
James Kelley (Ph.D., 2015)
Ryan Chan (Sc.M., 2014)
Olya Ohrimenko (Ph.D., 2013)
Joshua W. S. Brown (Sc.M., 2013)
Duy A. Nguyen (Sc.M., 2012)
Charalampos Papamantou (Ph.D., 2011)
Daniel J. Rosenberg (Sc.M., 2010)
Yash Thakore (Sc.M., 2010)
Juexin Wang (Sc.M., 2010)
Danfeng Yao (Ph.D., 2007)
Jasminka Hasić (Ph.D.)
Nikos Triandopoulos (Ph.D., 2006)
James Baker (Ph.D.)
Galina Shubina (Ph.D.)
Mehmood Ahmad (Sc.M.)
Sean Cannella (Sc.M., 2004)
Stina S. Bridgeman (Ph.D., 2001)
Lixin Pang (Sc.M., 2000)
Sumi Yunsun Choi (Sc.M., 1999)
Baolin Yang (Sc.M., 1998)
Luis D. Lejter (Sc.M., 1997)
Robinson Mason (Sc.M., 1997)
Ashim Garg (Ph.D., 1995)
Yi-Jen Chiang (Ph.D., 1995)
Sairam Subramanian (Ph.D., 1994)
Robert F. Cohen (Ph.D., 1992)
Sumeet K. Singh (Sc.M., 1991)

Steering Committees and Advisory Boards

Graph Drawing Symposium (GD), Steering Committee, Founding Member (Chair until 2012).

Conference on Algorithms and Data Structures (WADS), Steering Committee Member.

Electronic Journal of the Argentine Society for Informatics and Operations Research (SADIO), Advisory Board Member.

Program Committees

22nd Information Security Conference (ISC), September 2019, New York, New York

ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (GIS), November 2018, Seattle, Washington. (program committee co-chair)

ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (GIS), November 2017, Redondo Beach, California. (program committee co-chair)

ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (GIS), November 2016, San Francisco, California. (senior program committee member)

ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (GIS), November 2015, Seattle, Washington. (senior program committee member)

ACM Workshop on Security in Cloud Computing (SCC), April 2015, Singapore.

Algorithm Engineering and Experiments (ALENEX), January 2015, San Diego, California.

ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (GIS), November 2014, Dallas, Texas.

ACM Conference on Computer and Communications Security (CCS), November 2013, Berlin, Germany.

ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (GIS), November 2013, Orlando, Florida.

European Symposium on Research in Computer Security (ESORICS), September 2013, Egham, United Kingdom

IEEE Pacific Visualization Symposium (PacificVis), February 2013, Sydney.

ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (GIS), November 2012, Redondo Beach, California.

IEEE Pacific Visualization Symposium (PacificVis), March 2012, Songdo, Korea.

ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (GIS), November 2011, Chicago, Illinois.

Symposium on Graph Drawing (GD), September 2011, Eindhoven, The Netherlands.

Conference on Email and Anti-Spam (CEAS), September 2011, Perth, Australia.

IEEE Pacific Visualization Symposium (PacificVis), March 2011, Hong Kong.

Workshop on Algorithm Engineering and Experimentation (ALENEX), January 2011, San Francisco, California.

ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (GIS), November 2010, San Jose, California.

Conference on Email and Anti-Spam (CEAS), July 2010, Redmond, Washington.

ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (GIS), November 2009, Seattle, Washington.

Symposium on Graph Drawing (GD), September 2009, Chicago, Illinois.

Conference on Email and Anti-Spam (CEAS), July 2009, Mountain View, California.

ACM International Symposium on Advances in Geographic Information Systems (GIS), November 2008, Los Angeles, California.

Conference on Email and Anti-Spam (CEAS), August 2008, Mountain View, California.

Workshop on Algorithm Engineering (WAE), Provincetown, Massachusetts, May 2008.

Symposium on Graph Drawing (GD), September 23–26, 2007, Sydney, Australia.

Conference on Email and Anti-Spam (CEAS), August 2–3, 2007, Mountain View, California.

Workshop on Algorithms and Data Structures (WADS), July 30—August 1, 2007, Ottawa, Canada

IEEE International Conference on Data Engineering (ICDE), April 16–20, 2007, Istanbul, Turkey.

International Workshop on Constraint Programming for Graphical Applications, September 25, 2006, Nantes, France

European Symposium on Algorithms (ESA), September 11–13, 2006, Zürich, Switzerland.

Workshop on Visualization for Computer Security (VizSEC), October 26, 2005, Minneapolis, Minnesota.

Workshop on Algorithm Engineering and Experimentation (ALENEX), January 22, 2005, Vancouver, Canada. (co-chair)

Symposium on Graph Drawing (GD), September 29–October 2, 2004, New York, New York.

Symposium on Graph Drawing (GD), September 21–24, 2003, Perugia, Italy.

Workshop on Algorithms and Data Structures (WADS), July 30—August 1, 2003, Ottawa, Canada

Symposium on Graph Drawing (GD), August 26–28, 2002, Irvine, California.

International Symposium on Algorithms and Computation (ISAAC), November 21–23, 2002, Vancouver, Canada.

Workshop on Algorithms and Data Structures (WADS), August 8–10 2001, Providence, Rhode Island. (co-chair)

Symposium on Graph Drawing (GD), September 20–23, 2000, Colonial Williamsburg, Virginia.

Workshop on Algorithm Engineering (WAE), September 5–8, 2000, Saarbrücken, Germany.

Sixth Annual International Computing and Combinatorics Conference (COCOON), July 26–28, 2000, Sydney, Australia.

Italian Conference on Algorithms and Complexity (CIAC), March 1–3, 2000, Rome, Italy.

6th Workshop on Algorithms and Data Structures (WADS), August 12–14, 1999, Vancouver, Canada. (co-chair)

International Computing and Combinatorics Conference (COCOON '99), July 1999, Tokyo, Japan.

Workshop on Algorithm Engineering and Experimentation (ALENEX), January 15–16, 1999, Baltimore, Maryland.

International Symposium on Algorithms and Computation (ISAAC), December 14–16, 1998, South Korea.

Symposium on Graph Drawing (GD), August 13–15, 1998, Montréal, Canada.

Symposium on Graph Drawing (GD), September 18–20, 1997, Rome, Italy.

5th Workshop on Algorithms and Data Structures (WADS), August 6–8, 1997 in Halifax, Canada. (co-chair)

24th International Colloquium on Automata, Languages and Programming (ICALP), July 7–11, 1997, Bologna, Italy.

Workshop on Orders, Algorithms and Applications (ORDAL), August 5–9 1996, Ottawa, Canada.

Workshop on Advanced Visual Interfaces (AVI), May 27–29, 1996, Gubbio, Italy.

Symposium on Graph Drawing (GD), September 20–22, 1995, Passau, Germany.

4th Workshop on Algorithms and Data Structures (WADS), August 16–18, 1995, Kingston, Ontario, Canada.

Graph Drawing (GD, DIMACS Workshop), October 10–12, 1994, Princeton, New Jersey. (co-chair)

10th ACM Annual Symposium on Computational Geometry, June 6–8 1994, Stony Brook, New York.

26th ACM Symposium on Theory of Computing (STOC), May 23–25, 1994, Montréal, Canada.

Graph Drawing (GD, ALCOM Workshop), September 25–29, 1993, Paris, France.

3rd Workshop on Algorithms and Data Structures (WADS), August 11–13 1993, Montréal, Canada.

19th Workshop on Graph-Theoretic Concepts in Computer Science (WG), June 16–18, 1993, Utrecht, the Netherlands.

2nd Workshop on Algorithms and Data Structures (WADS), August 14–16, 1991, Ottawa, Canada.

Other Committees

ACM SIGSPATIAL Ten-Year Impact Award, Selection Committee Member, 2019.

IEEE Computer Society Fellows Evaluation Committee, 2012

Excursions in Algorithmics: A late festschrift for Franco P. Preparata, October 27–28, 2006 Providence, Rhode Island. Co-organizer.

7th Workshop on Algorithms and Data Structures (WADS 2001), August 8–10 2001, Providence, Rhode Island. Conference Chair.

3rd CGC Workshop on Computational Geometry, October 11–12, 1998, Providence, Rhode Island, Workshop Co-Chair.

Dagstuhl Workshop on Graph Algorithms and Applications, July 27–31, 1998, Dagstuhl, Germany, Workshop Co-Chair.

Working group on Computational Geometry, *ACM Workshop on Strategic Directions in Computing Research*, Cambridge, June 14–15, 1996, Working Group Chair.

Dagstuhl Workshop on Graph Algorithms and Applications, May 11–17, 1996, Dagstuhl, Germany, Workshop Co-Chair.

Graph Drawing (GD '94, DIMACS Workshop), October 10–12, 1994, Princeton, New Jersey, Workshop Co-Chair.

Work Meeting on Graph Drawing, June 3–5 1992, Marino (Rome), Italy, Workshop Co-Chair.

Editorships

- 14- *Journal of Graph Algorithms and Applications*, executive committee member.
- 96–13 *Journal of Graph Algorithms and Applications*, editor-in-chief.
- 96 *Journal of Graph Algorithms and Applications*, founding editor.
- 95–06 *Computational Geometry: Theory and Applications*, editor.
- 96–01 *IEEE Transactions on Computers*, associate editor.

Theoretical Computer Science, Excursions in Algorithmics: A Collection of Papers in Honor of Franco P. Preparata, vol. 408, no. 2–3, 2008, co-guest editor.

ACM Journal of Experimental Algorithmics, Special Issue on selected papers presented at the *2005 Workshop on Algorithm Engineering and Experimentation*, vol. 12, 2008, co-guest editor.

International Journal of Computational Geometry and Applications, Special Issue on selected papers presented at the *1997 CGC Workshop on Computational Geometry*, vol. 13, no. 1, guest editor.

Journal of Graph Algorithms and Applications, Special Issue on Selected Papers from the *1998 Dagstuhl Seminar on Graph Algorithms and Applications* vol. 5, no. 5, 2001, co-guest editor.

Algorithmica, Special Issue on selected papers presented at the *1996 Dagstuhl Seminar on Graph Algorithms and Applications*, vol. 26, no. 1, 2000, co-guest editor.

Computational Geometry: Theory and Applications, Special Issue on Geometric Representations of Graphs, vol. 9, no. 1–2, 1998, co-guest editor.

Journal of Computer and System Sciences, Special Issue on selected papers presented at the *26th ACM Symposium on Theory of Computing (STOC '94)*, vol. 55, no. 1, 1997, co-guest editor.

Algorithmica, Special Issue on Graph Drawing, vol. 16, no. 1, 1996, co-guest editor.

Invited Lectures

- 07/16 *DIMACS Workshop on Cryptography and its Interactions: Learning Theory, Coding Theory, and Data Structures*, Rutgers University
- 05/15 University of Roma Tre, Italy
- 04/15 University of Roma Tre, Italy
- 02/15 *Workshop on Cloud Security*, University of California, Irvine
- 07/14 University of Utah
- 07/14 University of California, Irvine
- 04/14 University of Roma Tre, Italy
- 03/14 University of California, Irvine
- 10/13 SUNY Stony Brook, New York (distinguished lecture)
- 05/13 Alta Scuola ASTRE, University of Roma Tre, Italy
- 04/13 NetApp, Waltham, Massachusetts
- 09/12 *Workshop on Theory and Practice of Graph Drawing*, Redmond, Washington
- 04/12 Stevens Institute of Technology, Hoboken, New Jersey (distinguished lecture)
- 01/12 NetApp, Waltham, Massachusetts
- 06/11 University of Roma Tre, Italy
- 03/11 University of Roma Tre, Italy
- 11/09 *CRA-W/CDC Workshop on Computational Geometry*, Medford, Massachusetts
- 11/09 Northwestern University, Evanston, Illinois (distinguished lecture)
- 06/09 University of Roma Tre, Italy
- 06/09 University of Milan Bicocca, Italy
- 03/09 University of Roma Tre, Italy
- 12/08 Rutgers University
- 09/08 *Symposium on Graph Drawing*, Heraklion, Greece
- 06/08 Yahoo! Research, Mountain View, California
- 11/07 *NSF Workshop on Algorithms, Combinatorics, and Geometry*, Denton, Texas
- 12/05 University of Roma Tre, Italy
- 03/04 Purdue University
- 12/03 University of Roma Tre, Italy
- 09/03 *European Symposium on Algorithms*, Budapest, Hungary
- 5/02 *NSF/CBMS Regional Research Conference in Mathematical Sciences on Geometric Graph Theory*, University of North Texas, Denton
- 7/99 *VIII Encuentros de Geometria Computacional*, Castellon, Spain

12/98 *International Symposium on Algorithms and Computation*, Taejon, Korea
 10/98 Washington University, St. Louis, Missouri
 9/98 Worcester Polytechnic Institute, Massachusetts
 7/98 University of Konstanz, Germany
 7/98 *DIMACS Program on Network Visualization*
 6/97 *Workshop on Geometric Computing*, Sophia-Antipolis, France
 2/97 Purdue University
 12/96 AT&T Laboratories, Murray Hill, New Jersey
 8/96 *Eight Canadian Conference on Computational Geometry*, Ottawa, Canada
 8/96 *Workshop on Orders, Algorithms and Applications* (ORDAL '96), Ottawa, Canada
 6/96 *SIAM Discrete Mathematics Conference*, Baltimore, Maryland
 12/95 University of Seville, Spain
 9/95 *International Workshop on Constraints for Graphics and Visualization*, Marseilles, France
 2/95 Tufts University
 1/95 University of Rome Tor Vergata, Italy
 10/94 *IEEE Symposium on Visual Languages* (VL '94), St. Louis
 7/94 *Workshop on Orders, Algorithms and Applications* (ORDAL '94), Lyon, France
 6/94 *Sixth Australasian Workshop on Combinatorial Algorithms*, Darwin, Australia
 6/94 Griffith University, Brisbane, Australia
 6/94 University of Newcastle, Australia
 4/94 *892nd Meeting of the American Mathematical Society*, Brooklyn, New York
 2/94 *Second Italian Conference on Algorithms and Complexity* (CIAC '94), Rome, Italy
 12/93 University of Rome La Sapienza, Italy
 10/93 State University of New York at Buffalo
 11/92 Dartmouth College
 8/92 *Fourth Canadian Conference on Computational Geometry*, St. John's, Newfoundland
 7/92 Fujitsu Laboratories, Numazu, Japan
 7/92 Fujitsu Laboratories, Tokyo, Japan
 6/92 University of Rome "Tor Vergata"
 5/92 Johns Hopkins University
 3/92 International Computer Science Institute, University of California, Berkeley
 3/92 *ALCOM Final Project Workshop*, Utrecht, the Netherlands
 2/92 Italian National Research Council, Rome

11/91 University of Texas at Dallas
 8/91 *ALCOM Summer School on Efficient Algorithm Design*, Aarhus, Denmark
 7/91 *Algorithms on Combinatorial Structures: International Symposium*, Curtin University, Perth
 6/91 University of Rome, “La Sapienza”
 3/91 Texas A&M University
 3/91 University of Texas at Austin
 12/90 *23rd Midwest Theory Consortium*, Northwestern University
 11/90 State University of New York, Stony Brook
 11/90 Tulane University
 11/90 Louisiana State University
 11/90 University of Texas at Dallas
 7/90 Italian National Research Council, Pisa
 7/90 University of Rome, “La Sapienza”
 5/90 *Conference on Computer Graphics in Pure Mathematics*, Iowa City
 4/90 *14th Computational Geometry Day*, New York University
 11/89 University of Texas at Dallas
 10/89 *DIMACS Workshop on Geometric Complexity*, Princeton University
 10/89 Columbia University
 7/89 *Australasian Conference on Combinatorics and Computing*, Brisbane
 6/89 University of Passau
 3/89 IBM T.J. Watson Research Center
 11/88 Carleton University
 11/88 University of Texas at Dallas
 10/88 Dartmouth College
 7/88 University of Rome, “La Sapienza”
 5/88 University of Michigan
 4/88 University of Texas at Dallas
 3/88 University of Ottawa
 12/87 Italian National Research Council, Rome
 7/87 University of Rome, “La Sapienza”
 2/87 McGill University
 6/86 University of Rome, “La Sapienza”
 10/85 University of Illinois at Urbana-Champaign

Professional Societies

American Association for the Advancement of Science (AAAS), Fellow

Association for Computing Machinery (ACM), Fellow

Institute of Electrical and Electronic Engineers (IEEE), Fellow

Patents

1. J. A. Kelley and R. Tamassia, *Secure compression*, United States Patent no. 10,417,187, 2019.
2. C. Papamanthou, R. Tamassia, and N. Triandopoulos, D. Papadopoulos, E. J. Tremel, *Authenticated pattern matching and exact path queries*, United States Patent no. 10,409,845, 2019.
3. N. Triandopoulos, A. Juels, R. Tamassia, and J. A. Kelley, *Methods and apparatus for generating authenticated error correcting codes*, United States Patent no. 9,496,897, 2016.
4. N. Triandopoulos, M. T. Goodrich, D. Nguyen, O. Ohrimenko, C. Papamanthou, R. Tamassia, and C. V. Lopes, *Techniques for Verifying Search Results over a Distributed Collection*, United States Patent no. 9,152,716, 2015.
5. C. Papamanthou, R. Tamassia, and N. Triandopoulos, *Cryptographic Accumulators for Authenticated Hash Tables*, United States Patent no. 9,098,725, 2015.
6. J. A. Kelley, R. Tamassia, and N. Triandopoulos, *Techniques for Securing a Centralized Metadata Distributed Filesystem*, United States Patent no. 8,997,198, 2015.
7. C. C. Erway, A. Küpçü, C. Papamanthou and R. Tamassia, *Apparatus, Methods, and Computer Program Products Providing Dynamic Provable Data Possession*, United States Patent no. 8,978,155, 2015.
8. C. Papamanthou, R. Tamassia, and N. Triandopoulos, *Cryptographic Accumulators for Authenticated Hash Tables*, United States Patent no. 8,726,034 B2, 2014.
9. R. Tamassia, N. Triandopoulos, and C. Papamanthou, *System and Method for Optimal Verification of Operations on Dynamic Sets*, United States Patent no. 8,572,385 B2, 2013.
10. R. Tamassia and N. Triandopoulos, *Efficient Content Authentication In Peer-To-Peer Networks*, United States Patent no. 7,974,221, 2011.
11. M. T. Goodrich and R. Tamassia, *Efficient authenticated dictionaries with skip lists and commutative hashing*, United States Patent no. 7,257,711, 2007.

Publications

Books

1. M. T. Goodrich and R. Tamassia, *Algorithm Design and Applications*, Wiley, 2015.
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