

Curriculum Vitae

Roberto Tamassia

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Brief Biography

Roberto Tamassia is Chairman and Professor of the Department of Computer Science and Director of the Center for Geometric Computing at Brown University. His research interests include information security, cryptography, analysis, design, and implementation of algorithms, graph drawing and computational geometry. He has published six textbooks and more than 220 research articles and books in the above areas and has given more than 50 invited lectures worldwide. He is the recipient of a Technical Achievement Award from the IEEE Computer Society for pioneering the field of graph drawing and he is listed among the 319 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. He received the Ph.D. degree in electrical and computer engineering from the University of Illinois at Urbana-Champaign in 1988.

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

- 07- Chairman, Department of Computer Science, Brown University
- 00- Director, Center for Geometric Computing, Brown University
- 98- Professor, Department of Computer Science, Brown University

Previous Professional Appointments

- 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

- 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

- 06– CS 166 Introduction to Computer Systems Security (Brown University)
<http://www.cs.brown.edu/courses/cs166/>
- 89–05 CS 252 Computational Geometry (Brown University)
<http://www.cs.brown.edu/courses/cs252/>
- 88–06 CS 16 Algorithms and Data Structures (Brown University)
<http://cs16.net/>
- 92 Computational Geometry (University of Rome)
- 84–85 Data Structures and Pascal Programming (University of Rome)

Consulting to Industry

- 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

- Information Security
- Cryptography
- Analysis and Design of Algorithms
- Graph Drawing
- Computational Geometry
- Computer Science Education

Research Grants and Corporate Gifts

- 08-11 National Science Foundation, “Algorithms for Graphs on Surfaces,” CCF-0830149, \$199,999.
- 07–10 National Science Foundation, “Trust Management for Open Collaborative Information Repositories: The CalSWIM Cyberinfrastructure,” OCI-0724806 (with Cristina Lopes, Michael T. Goodrich and Stanley Grant), \$1,090,465.
- 07–09 National Science Foundation, “Privacy Management, Measurement, and Visualization in Distributed Environments,” IIS-0713403, \$224,995.
- 07 IAM Technology, Inc.

- 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. Doepfner, 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 – present)
- Luca Vismara (May 1996 – December 1997, June 2000 – present)
- Michael Shin (February 2002 – present)
- 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)

Current Graduate Students

- Charalampos Papamantou (Ph.D.)

Former Graduate Students

- Danfeng Yao (Ph.D., 2007)
- Nikos Triandopoulos (Ph.D., 2006)
- James Baker (Ph.D., on leave)
- Galina Shubina (Ph.D., on leave)
- Mehmood Ahmad (Sc.M., on leave)
- 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 and Chair.

Workshop 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

ACM International Symposium on Advances in Geographic Information Systems (GIS), November 5–7, 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

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

96– *Journal of Graph Algorithms and Applications*, editor-in-chief

95–06 *Computational Geometry: Theory and Applications*, editor

96–01 *IEEE Transactions on Computers*, associate editor

ACM Journal of Experimental Algorithmics, Special Issue on selected papers presented at the *2005 Workshop on Algorithm Engineering and Experimentation*, to appear, 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

- 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 Rome Tre, Italy
- 03/04 Purdue University
- 12/03 University of Rome 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, Tokio, 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

- Association for Computing Machinery
- European Association for Theoretical Computer Science
- Institute of Electrical and Electronic Engineers

Patents

1. 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

2. M. T. Goodrich and R. Tamassia, *Data Structures and Algorithms in Java, Fourth Edition*, Wiley, 2005.
3. M. T. Goodrich and R. Tamassia, *Data Structures and Algorithms in Java, Third Edition*, Wiley, 2004.
4. M. T. Goodrich, R. Tamassia and D. Mount, *Data Structures and Algorithms in C++*, Wiley, 2003.
5. M. T. Goodrich and R. Tamassia, *Algorithm Design*, Wiley, 2002.
6. M. T. Goodrich and R. Tamassia, *Data Structures and Algorithms in Java, Second Edition*, Wiley, 2001.
7. G. Di Battista, P. Eades, R. Tamassia, and I. G. Tollis, *Graph Drawing*, Prentice-Hall, 1999.
8. M. T. Goodrich and R. Tamassia, *Data Structures and Algorithms in Java*, Wiley, 1998.

Edited Books

9. R. Tamassia (Ed.), *Handbook of Graph Drawing and Visualization*, CRC Press (to appear).
10. F. Dehne, J.-R. Sack, and R. Tamassia (Eds.), *Algorithms and Data Structures* (Proceedings of WADS '01), *Lecture Notes in Computer Science*, vol. 2125, Springer-Verlag (2001).
11. F. Dehne, A. Gupta, J.-R. Sack, and R. Tamassia (Eds.), *Algorithms and Data Structures* (Proceedings of WADS '99), *Lecture Notes in Computer Science*, vol. 1663, Springer-Verlag (1999).
12. F. Dehne, A. Rau-Chaplin, J.-R. Sack, and R. Tamassia (Eds.), *Algorithms and Data Structures* (Proceedings of WADS '97), *Lecture Notes in Computer Science*, vol. 1272, Springer-Verlag (1997).
13. R. Tamassia and I.G. Tollis (Eds.), *Graph Drawing* (Proceedings of GD '94), *Lecture Notes in Computer Science* vol. 894, Springer-Verlag (1995).

Journals

14. D. Yao, K. Frikken, M. Atallah, and R. Tamassia, "Private Information: To Reveal or Not To Reveal," *ACM Transactions on Information and System Security*, 2009 (to appear).
15. D. Yao and R. Tamassia, "Compact and Anonymous Role-Based Authorization Chain," *ACM Transactions on Information and System Security*, 2009 (to appear).
16. M. T. Goodrich, R. Tamassia, and D. Yao, "Notarized Federated Identity Management for Increased Trust in Web Services," *Journal of Computer Security*, vol. 16, no. 4, pp. 399-418, 2008.
17. T. M. Chan, M. T. Goodrich, S. R. Kosaraju and R. Tamassia, "Optimizing area and aspect ratio in straight-line orthogonal tree drawings," *Computational Geometry: Theory and Applications* vol. 23, no. 2, pp. 153-162, 2002.
18. S. Bridgeman and R. Tamassia, "A User Study in Similarity Measures for Graph Drawing," *Journal of Graph Algorithms and Applications*, Special Issue on Selected Papers from the 2000 Symposium on Graph Drawing, M. Kaufmann, ed., vol. 6, no. 3, pp. 225-254, 2002.
19. A. Garg and R. Tamassia, "On the Computational Complexity of Upward and Rectilinear Planarity Testing," *SIAM J. Computing*, vol. 31, no. 2, pp. 601-625 (2001).
20. G. Di Battista, R. Tamassia, and L. Vismara, "Incremental Convex Planarity Testing," *Information and Computation*, vol. 166, pp. 1-33 (2001).
21. R. Tamassia and L. Vismara, "A case study in Algorithm Engineering for Geometric Computing," *Int. J. Computational Geometry & Applications*, vol. 11, no. 1, pp. 15-70 (2001).
22. G. Di Battista, A. Garg, G. Liotta, A. Parise, R. Tamassia, E. Tassinari, F. Vargiu and L. Vismara, "Drawing Directed Acyclic Graphs: An Experimental Study," *Int. J. Computational Geometry & Applications*, vol. 10, no. 6, pp. 623-648 (2000).
23. S. Bridgeman and R. Tamassia, "Difference Metrics for Interactive Orthogonal Graph Drawing Algorithms," *Journal of Graph Algorithms and Applications*, special issue on selected papers from the 1998 Symposium on Graph Drawing, G. Liotta and S. Whitesides eds., vol. 4, no. 3, pp. 47-74 (2000).
24. L. Vismara, G. Di Battista, A. Garg, G. Liotta, R. Tamassia and F. Vargiu, "Experimental Studies on Graph Drawing Algorithms," *Software Practice and Experience*, special issue on Discrete Algorithms Engineering, K. Weihe and D. Wagner, eds., vol. 30, pp. 1235-1284 (2000).
25. S. Bridgeman, G. Di Battista, W. Didimo, G. Liotta, R. Tamassia, and L. Vismara, "Turn-Regularity and Optimal Area Drawings of Orthogonal Representations," *Computational Geometry: Theory and Applications*, vol. 16, no. 1, pp. 53-93 (2000).

26. R. Tamassia, I. G. Tollis, and J. S. Vitter, "A Parallel Algorithm for Planar Orthogonal Grid Drawings," *Parallel Processing Letters*, vol. 10, no. 1, pp. 141–150 (2000).
27. S. Bridgeman, A. Garg, and R. Tamassia, "A Graph Drawing and Translation Service on the World Wide Web," *Int. J. Computational Geometry & Applications*, vol. 9, no. 4–5, pp. 419–446 (1999).
28. G. Barequet, C. A. Duncan, M. T. Goodrich, S. S. Bridgeman, and R. Tamassia, "Geometric Computing over the Internet," *IEEE Internet Computing*, vol. 3, no. 2, pp. 21–29 (1999).
29. R. Tamassia, "Advances in the Theory and Practice of Graph Drawing," *Theoretical Computer Science*, special issue on selected papers from the ORDAL '96 Workshop, I. Rival, ed., vol. 217, no. 2, pp. 235–254 (1999).
30. J. E. Baker, I. F. Cruz, G. Liotta, and R. Tamassia, "Visualizing Geometric Algorithms over the Web," *Computational Geometry: Theory and Applications*, vol. 12, no. 1–2, pp. 125–152 (1999).
31. G. Di Battista, R. Tamassia, and L. Vismara, "Output-Sensitive Reporting of Disjoint Paths," *Algorithmica*, vol. 23, no. 4, pp. 302–340 (1999).
32. O. Devillers, G. Liotta, F. P. Preparata, and R. Tamassia, "Checking the Convexity of Polytopes and the Planarity of Subdivisions," *Computational Geometry: Theory and Applications*, vol. 11, no. 3–4, pp. 187–208 (1998).
33. G. Liotta, F. P. Preparata, and R. Tamassia, "Robust Proximity Queries: an Illustration of Degree-driven Algorithm Design," *SIAM J. Computing*, vol. 28, no. 3, pp. 864–889 (1998).
34. M.T. Goodrich and R. Tamassia, "Dynamic Trees and Dynamic Point Location," *SIAM Journal on Computing*, vol. 28, no. 2, pp. 612–636 (1998).
35. P. Bertolazzi, G. Di Battista, C. Mannino, and R. Tamassia, "Optimal Upward Planarity Testing of Single-Source Digraphs," *SIAM Journal on Computing*, vol. 27, no. 1, pp. 132–169 (1998).
36. R. Tamassia, "Constraints in Graph Drawing Algorithms," *Constraints*, vol. 3, no. 1, pp. 89–122 (1998).
37. G. Kant, G. Liotta, R. Tamassia, and I.G. Tollis, "Area Requirement of Visibility Representations of Trees," *Information Processing Letters*, vol. 62, no. 2, pp. 81–88 (1997).
38. R.F. Cohen and R. Tamassia, "Combine and Conquer," *Algorithmica*, vol. 18, pp. 51–73 (1997).
39. M.T. Goodrich and R. Tamassia, "Dynamic Ray Shooting and Shortest Paths via Balanced Geodesic Triangulations," *J. Algorithms*, vol. 23, pp. 51–73 (1997).
40. G. Di Battista, A. Garg, G. Liotta, R. Tamassia, E. Tassinari and F. Vargiu "An Experimental Comparison of Four Graph Drawing Algorithms," *Computational Geometry: Theory and Applications*, vol. 7, no. 5–6, pp. 303–325 (1997).
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