CURRICULUM VITAE

# ROBERT F. DUGAN JR.

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## EDUCATION

| 2000 | Ph.D. | Rensselaer Polytechnic Institute | Computer Science |
|------|-------|----------------------------------|------------------|
| 1993 | M.S.  | Worcester Polytechnic Institute  | Computer Science |
| 1988 | B.S.  | Worcester Polytechnic Institute  | Computer Science |

## EXPERIENCE

| 2008-Present | Associate Professor, Computer Science, Stonehill College |
|--------------|----------------------------------------------------------|
| 2002-2008    | Assistant Professor, Computer Science, Stonehill College |
| 2001-Present | Co-Founder, StepZero LLC, Software Performance Engineering |
| Spring 2001  | Postdoctoral Appointment, Rensselaer Polytechnic Institute |
| 2000-2001    | Chief Engineer, eCal Corporation, Philadelphia, PA |
| 1998-1999    | Performance Engineer, Worldstreet Corporation, Boston, MA |
| 1997-2000    | Research Assistant, Rensselaer Polytechnic Institute |
| 1996         | Instructor, Rensselaer Polytechnic Institute |
| 1995         | Teaching Assistant, Rensselaer Polytechnic Institute |
| 1994-1995    | Research Assistant, Rensselaer Polytechnic Institute |
| 1992-1993    | Research Assistant, Worcester Polytechnic Institute |
| 1988-1994    | Developer, IBM GIS Architecture/Design Group, Kingston, NY |

## HONORS AND AWARDS

Stonehill Professional Development Grant ($5K) (2011)
Fellow at the Stonehill Center for Non-Profit Management (2007-2008)
Davis Teaching and Learning Grant (2006)
Glenn Mueller Entrepreneurship Award, Rensselaer Polytechnic Institute (2000)
General Electric Teaching Scholarship, Rensselaer Polytechnic Institute (1995,1997)
IBM Graduate Education Scholarship (1993)
IBM First Patent Application Award (1992)
IBM Invention Achievement Award (1990)
IBM Division Award (1989)
IBM Quality in Development Award (1988)

## INVENTIONS

Brightness Control for Raster and Vector Graphics, Patent No: 5,499,325
Relationships: Improved Integrity for GIS, IBM Invention KI891-0179
Object Oriented Data Model for GIS, IBM Invention KI891-0178
Pointing Surface Window Map, IBM Invention KI889-0075
Cursor for Arbitrary Directional Pan, IBM Invention KI889-0039

## PROFESSIONAL ACTIVITIES

Member, Association for Computing Machinery
Member, Institute for Electronic and Electrical Engineers
Member, Center for Teaching and Learning Advisory Committee 2010-2012
Member, Standards and Standing Committee 2011- present
Member, Learning Space Committee 2012 - present
Co-chair Student Poster Committee, Computing Science in Colleges Northeast Conference
   (CCSCNE-2013), April 12 - 13, 2013, Sienna College, Loudenville, NY
Co-chair Student Poster Committee, Paper Reviewer, Computing Science in Colleges Northeast
Conference (CCSCNE-2012), April 27 - 28, 2012, Quinnipiac University, Hamden, CT
Reviewer for CHOICE Library Reviews 2002-2008
NSF Grant Proposal Review Panelist, Washington, D.C., S2003, S2004, S2006
Chair, Technology Advisory Committee, Stonehill College, 2004-2005
Secretary, Technology Advisory Committee, Stonehill College, 2003-2004
Co-Chair, Next Generation Learning PlatformTrack , 36th Hawaii International Conference on
   System Sciences (HICSS-36), January 6-9, 2003, Big Island, Hawaii
Review Committee, Americas Conference on Information Systems, August 9-11, 2002,
    Dallas, Texas.
President, Upsilon Pi Epsilon, Computer Science Honor Society, RPI Chapter (1995-1996)

## TEACHING EXPERIENCE

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|---|---|
| Computer Science Capstone | Operating Systems |
| Computer Science I & II | Software Performance Engineering |
| Visual Basic Programming | Database Management Systems |
| Programming Languages | Data Structures and Algorithms |
| Data Networks | |

## PUBLICATIONS

1. Dugan, R.F., *A Web Programming Course Using the Wicket Framework.* Journal of Computing Sciences in Colleges (to appear October 2013). Acceptance rate 69%.

2. Dugan, R.F., Dugan, R.M., Trabucco, C. (2011*). Healthy Computer Use for Computer Science.* Journal of Computing Sciences in Colleges. 27, 1 (October 2011). Acceptance rate 60%.

3. Dugan, R.F. (submitted June 2010; revised June 2011). *A Survey of Computer Science Capstone Course Literature.* Journal of Computer Science Education. 21, 3 (September 2011). Acceptance rate 17%.

4. Dugan, R.F., Polanski,V.G., (2006). *Writing for computer science: a taxonomy of writing tasks and general advice.* Journal of Computing Sciences in Colleges. 21, 6 (June 2006). Acceptance rate 46%.

5. Dugan, R.F., *Performance Lies My Professor Told Me: The Case for Teaching Software Performance Engineering to Undergraduates,* Fourth International ACM Workshop on Software and Performance (WOSP 2004), San Francisco, California, January 14-16, 2004. Acceptance rate 26%.

6. Dugan, R.F., Glinert, E. P., Rogers, E.H., *CAMELOT: Technology Focused Testing of CSCW Applications,* IEEE Proceedings of the 36th Hawaii International Conference on System Sciences (HICSS-36), January 6-9, 2003, Big Island, Hawaii. Acceptance rate 70%.

7. Dugan, R.F., Glinert, E., Shokoufandeh, A., *The Sisyhpus Database Retrieval Software Performance Antipattern,* Third International ACM Workshop on Software and Performance (WOSP 2002), Rome, Italy, July 24-26, 2002. Acceptance rate 28%.

8. Dugan, R.F., Glinert, E., *Task Division in Collaborative Simulations,* IEEE Proceedings of the 35th Hawaii International Conference on System Sciences (HICSS-35), January 7-10, 2002, Big Island, Hawaii. Acceptance rate 50%.

9. Dugan, R.F., Glinert, E., *Triggers: A Dynamic Approach to Testing Multi-User Software,* Technical Report-01-5, Computer Science Department, Rensselaer Polytechnic Institute, Troy, NY, May 2001.

10. Dugan, R. F., *A Testing Methodology and Architecture for Computer Supported Cooperative Work Software,* Doctoral Thesis, Computer Science Department, Rensselaer Polytechnic Institute, Troy, NY, May 2000.

11. Dugan, R. F., Briemer, E., Lim, D., Champagne, M., Glinert, E., Goldberg, M*., Exploring Collaborative Learning in Rensselaer's Classroom-in-the-Round,* Technical Report-98-1, Computer Science Department, Rensselaer Polytechnic Institute, Troy, NY, April 1998.

12. Dugan, R. F., Hachem, N., Gennert, M., *Temporal Extent for Global Change Research,* ACM Conference on Advances in GIS, Washington, D.C., November 5, 1993.

13. Dugan, R. F., *Temporal Abstraction in Global Change Research,* Master's Thesis, Worcester Polytechnic Institute, Worcester, Massachusetts, 1993.

14. Dugan, R. F., *A Feasibility Study of Automated Input of Geographic Information*, Senior Thesis, Worcester Polytechnic Institute, Worcester, Massachusetts, 1987.

15. Dugan, R. F., *IBM Graphics Program Generator: Digitizing Support Manual*, IBM Corporation, Armonk, New York, 1986. Voted "manual most likely to take to a deserted island" by 1986 GPG User's Group Meeting.

## PRESENTATIONS

1. Dugan, R.F., "Academic Integrity for Computer Scientists", International Center for Academic Integrity Annual Conference and General Meeting, San Antonio, Texas, February 26-29, 2013.

2. Dugan, R.F., Trabucco., C, "The Alexander Technique for Computer Scientists", American Society of the Alexander Technique Annual Conference and General Meeting, Julliard School of Music, New York, New York, May 30-June 3, 2012.

3. Dugan, R.F., Dugan, R.M., Trabucco., "WORKSHOP: Healthy Computer Use for Computer Science", Eighteenth Annual Consortium for Computing Sciences in Colleges Midwestern Conference, Huntington University, Huntington, Indiana, September 23-24, 2011.

4. Dugan, R.F., "Software Performance Engineering", Nexaweb Corporation, Burlington, Massachusetts, August 31, 2006.

5. "Life Cycle Performance Engineering using LoadRunner", Mercury Interactive's Worldwide User's Group Meeting, Lake Buena Vista, Florida, October 22-23, 2001.

6. "A Computational Model for Geographic Information Systems", Computer Science Colloquium, Worcester Polytechnic Institute, Worcester, Massachusetts, April 19, 1996.

7. "The Future of Mobile Computing", IBM Kingston Mobile Computing, Kingston, New York, June 11, 1994.

## STUDENT COLLABORATIONS

1. Bodkin, D., Dugan, R.F., Jacobs, K., Saltzman, A. *Stretch Break for iOS*, Second Place Prize, Eighteenth Annual Consortium for Computing Sciences in Colleges, Northeastern Conference, April 12-13, 2013, Siena College, Loudonville, NY.

2. Martinez, A., Dugan, R.F., *Evolution of Social Networking Website*, Proceedings of the Tenth Annual Consortium for Computing Sciences in Colleges, Northeastern Conference, April 11-12, 2008, Wagner College, Staten Island, NY.

3. Green, K., Dugan, R.F., *Internet Game Network Bandwidth Utilization on College Campuses,* Proceedings of the Tenth Annual Consortium for Computing Sciences in Colleges, Northeastern Conference, April 22-23, 2005, Providence College, Providence, RI.

4. McKenna, J., Dugan, R.F., *The Superficial Algorithmitis, Blind Spot, and Memory vs. CPU Software Performance Antipatterns*, Proceedings of the Eighth Annual Consortium for Computing Sciences in Colleges, Northeastern Conference, April 25-26, 2003, Providence College, Providence, RI.