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EDUCATION

- 1987 - 1992 Doctor of Philosophy in Computer Science
University of Colorado, Boulder
Dissertation Title: *From Programming Tasks to Solutions—Bridging the Gap Through the Explanation of Examples*
- 1980 - 1982 Master of Science in Computer Science
The American University, Washington, D.C.
- 1976 - 1980 Bachelor of Science in Mathematics and Computer Science
The American University, Washington, D.C.

EMPLOYMENT

- 1994 - present University of California, Irvine, Information and Computer Science
Position (July 2004-present): Chair, Department of Informatics
Position (July 2001-present): Associate Professor (with tenure)
Position (1994-2001): Assistant Professor
- 1987 - 1994 University of Colorado, Boulder, Department of Computer Science
Position (1992 - 1994): Postdoctoral Fellow
Position (1987 - 1992): Graduate Research Assistant
- Summer 1989 Gesellschaft für Mathematik und Datenverarbeitung mbH
Position: Guest Scientist
- 1979 - 1987 National Institute of Standards and Technology
(formerly National Bureau of Standards),
Center for Computing and Applied Mathematics
Position (1981 - 1987): Computer Scientist
Position (1980 - 1981): Mathematician
Position (1979 - 1980): Mathematics Aide

PROFESSIONAL AFFILIATIONS

- 1982 - present Association for Computing Machinery (ACM)
1982 - present American Association for Artificial Intelligence (AAAI)
1992 - present Institute of Electrical and Electronics Engineers (IEEE) Computer Society
1994 - 1996 Association for the Advancement of Computing in Education (AACE)

REFEREED JOURNAL PUBLICATIONS

- J.15 de Souza, C.R.B., Redmiles, D. *On The Roles of APIs in the Coordination of Collaborative Software Development*, Computer Supported Cooperative Work, (to appear 2010).
- J.14 Al-Ani, B., Redmiles, D. *Supporting Trust in Distributed Teams through Continuous Coordination*, IEEE Software, November / December 2009, pp. 35-40.
- J.13 Al-Ani, B., Redmiles, D., van der Hoek, A., Alvim, M., da Silva, I., Mangano, N., Trainer, E., Sarma, A. *Continuous Coordination within Software Engineering Teams: Concepts and Tool Support*, Journal of Computer Science and Engineering in Arabic: Special Issue on Software Engineering, vol. 1, no 3, 2008, pp. 10-33.
- J.12 Geyer, W., Silva Filho, R. S., Brownholtz, B., Redmiles, D. F. *The Trade-Offs of Blending Synchronous and Asynchronous Communication Services to Support Contextual Collaboration*, Journal of Universal Computer Science, Special issue on Groupware: Issues and Applications with a selection of papers presented at 12th International Workshop on Groupware, V. 14, No. 1, March 2008, pp. 4-26.
- J.11 Redmiles, D., van der Hoek, A., Al-Ani, B., Quirk, S., Sarma, A., Silva Filho, R., de Souza, C., and Trainer, E. *Continuous Coordination: A New Paradigm to Support Globally Distributed Software Development Projects*, Wirtschaftsinformatik, V. 49, 2007, pp. 28-38.
- J.10 DePaula, R., Ding, X., Dourish, P., Nies, K., Pillet, B., Redmiles, D., Ren, J., Rode, J., and Silva Filho, R. *In the Eye of the Beholder: A Visualization-based Approach to Information System Security*, International Journal of Human-Computer Studies (IJHCS), Special Issue on HCI Research in Privacy and Security, v. 63, No. 1-2, July 2005, pp. 5-24.
- J.9 Redmiles, D. *Introduction to the Special Issue of CSCW on Activity Theory and the Practice of Design*, Computer-supported Cooperative Work, Special Issue on Activity Theory and the Practice of Design, Vol. 11, No. 1-2, 2002, pp. 1-11.
- J.8 Collins, P., Shukla, S., Redmiles, D. *Activity Theory and System Design: A View from the Trenches*, Computer-supported Cooperative Work, Special Issue on Activity Theory and the Practice of Design, Vol. 11, No. 1-2, 2002, pp. 55-80.
- J.7 Medvidovic, N., Rosenblum, D., Redmiles, D., Robbins, J. *Modeling Software Architectures in the Unified Modeling Language*, ACM Transactions on Software Engineering and Methodology, Vol. 11, No. 1, January 2002, pp. 2-57.
- J.6 Hilbert, D., Redmiles, D. *Extracting Usability Information from User Interface Events*, ACM Computing Surveys, Vol. 32, No. 4, December 2000, pp. 384-421.
- J.5 Robbins, J., Redmiles, D. *Cognitive Support, UML Adherence, and XMI Interchange in Argo/UML*, Information and Software Technology, Vol. 42, No.2, January 2000, pp.79-89.
- J.4 Robbins, J., Redmiles, D. *Software Architecture Critics in the Argo Design Environment*, Knowledge-Based Systems, Vol. 11, No.1, September 1998, pp.47-60.
- J.3 Robbins, J., Hilbert, D., Redmiles, D. *Extending Design Environments to Software Architecture Design*, Automated Software Engineering, Vol. 5, No. 3, July 1998, pp. 261-290.
- J.2 Fischer, G., Redmiles, D., Williams, L., Puhr, G., Aoki, A., Nakakoji, K. *Beyond Object-Oriented Technology: Where Current Approaches Fall Short*, Human Computer Interaction, Vol. 10, No. 1, 1995, pp. 79-119.
- J.1 Fischer, G., Girgensohn, A., Nakakoji, K., Redmiles, D. *Supporting Software Designers with Integrated, Domain-Oriented Design Environments*, IEEE Transactions on Software Engineering, Special Issue on Knowledge Representation and Reasoning in Software Engineering, Vol. 18, No. 6, 1992, pp. 511-522.

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- C.90 Al-Ani, B. and Redmiles, D. *In Strangers We Trust? Findings of an Empirical Study of Distributed Development*, IEEE International Conference on Global Software Engineering (ICGSE, Limerick, Ireland), July 2009, pp. 121-130.
- C.89 Al-Ani, B. and Redmiles, D. *Investigating Decision Making Processes (DMPes) in Distributed Development Teams: Findings of a Comparative Empirical Study*, International Conference on Global Software Engineering (ICGSE, Limerick, Ireland), July 2009, pp. 51-60.
- C.88 Wilensky, H., Redmiles, D., Su, N. *The Dissemination of Knowledge Management*, The 2009 International ACM SIGGROUP Conference on Supporting Group Work (Sanibel Island, FL), May 2009, pp. 199-208.
- C.87 Shih, P.C., Nguyen, D.H., Hirano, S.H., Redmiles, D.F., Hayes, G.R. *GroupMind: Supporting Idea Generation through a Collaborative Mind-mapping Tool*, The 2009 International ACM SIGGROUP Conference on Supporting Group Work (Sanibel Island, FL), May 2009, pp. 139-148.
- C.86 Al-Ani, B., Redmiles, D. *Challenges Encountered When Identifying Remote Stakeholders*, Workshop on Human-centered Computing in International Development, held in conjunction with the 2009 Conference on Human Factors and Computing Systems (CHI 2009, Boston, MA), available online at <http://www.ics.uci.edu/~nsambasi/hcc4id/>, April 2008.
- C.85 Trainer, E., Redmiles, D.F. *Towards an Infrastructure for Software Visualization Research*, First International Workshop on Infrastructure for Research in Collaborative Software Engineering (IRCoSE), held in conjunction with The 16th International Symposium on the Foundations of Software Engineering (FSE 2008, Atlanta, GA), November 2008, available online at <http://home.segal.uvic.ca/~IRCoSE-2008/>.
- C.84 Al-Ani, B., Redmiles, D., van der Hoek, A. *Sense-Making and Mindfulness of Interdependencies in Virtual Organizations*, Workshop on Supporting Distributed Team Work, held in conjunction with the Conference on Computer-Supported Cooperative Work (CSCW 2008, San Diego, CA), November 2008, 4 pages, Workshop description available online at http://docs.google.com/View?docid=dhncd3jd_343cmcr7mcm.
- C.83 Wilensky, H. and Redmiles, D. *Adoption of Web 2.0 in the Enterprise: Technological Frames of KM Practitioners and Users*, Workshop on What to expect from Enterprise 3.0: Adapting Web 2.0 to Corporate Reality, held in conjunction with the Conference on Computer-Supported Cooperative Work (CSCW 2008, San Diego, CA), November 2008, 3 pages, Proceedings available online at <http://swiki.cs.colorado.edu/CSCW2008-Web20>.
- C.82 Sarma, A., Redmiles, D., van der Hoek, A. *Empirical Evidence of the Benefits of Workspace Awareness in Software Configuration Management*, The 16th ACM SIGSOFT International Symposium on the Foundations of Software Engineering (FSE 2008, Atlanta, Georgia), November 2008, pp. 113-123.
- C.81 Trainer, E., Quirk, S., de Souza, C.R.B., and Redmiles, D.F. *Analyzing a Socio-Technical Visualization Tool Using Usability Inspection Methods*, The IEEE Symposium on Visual Languages and Human Centric Computing (VL/HCC, Herrsching am Ammersee, Germany), September 2008, pp. 78-81.
- C.80 Rueggee, W., Silva Filho, R. S., Bajracharya, S. K., Lopes, C. V., Redmiles, D. F. *XE (eXtreme Editor) – Bridging the Aspect-Oriented Programming Usability Gap*, The 23rd IEEE/ACM International Conference on Automated Software Engineering (ASE 2008, L'Aquila, Italy), September, 2008, pp. 435-438.
- C.79 Wilensky, H., Su, N., Redmiles, D., Mark, G. *A community of Knowledge Management Practitioners: Mirroring Power across Social Worlds*, The 20th IFIP World Computer Congress, WG12.6 Conference on Knowledge Management in Action (KMIA 2008, Milano Italy), September 2008, pp. 195-207.
- C.78 de Souza, C.R.B., Redmiles, D.F. *An Empirical Study of Software Developers Management of Dependencies and Changes*, The 30th International Conference on Software Engineering (ICSE 2008, Leipzig, Germany), May 2008, pp. 241-250.

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- C.77 Al-Ani, B., Trainer, E., Ripley, R., Sarma, A., van der Hoek, A., Redmiles, D.F. *Continuous Coordination within the Context of Cooperative and Human Aspects of Software Engineering*, The 2008 International Workshop on Cooperative and Human Aspects of Software Engineering (CHASE), held in conjunction with the 30th International Conference on Software Engineering (ICSE 2008, Leipzig, Germany), May 2008, pp. 1-4.
- C.76 Al-Ani, B., Redmiles, D. *Forces that Influence Trust in Technology in the Middle East: Culture, Politics and History*, Workshop on HCI for Community and International Development, held in conjunction with the 2008 Conference on Human Factors and Computing Systems (CHI 2008, Florence, Italy), April 2008.
- C.75 Fischer, G., Redmiles, D. *Transdisciplinary Education and Collaboration*, Meeting of the Human Computer Interaction Consortium (HCIC 2008, Frasier, CO), February 2008, also available to member organizations at <http://www.hcic.org/>.
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- C.72 de Souza, C.R.B., Redmiles, D.F. *The Awareness Network: Should I display my actions to whom? And, whose actions should I monitor?*, The 10th European Conference on Computer Supported Co-operative Work (ECSCW 2007, Limerick, Ireland), September 2007, pp. 99-117.
- C.71 Sarma, A., Redmiles, D., van der Hoek, A., *A Comprehensive Evaluation of Workspace Awareness in Software Configuration Management Systems*, IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC 2007, Coeur d'Alène, Idaho), September 2007, pp. 23-26.
- C.70 Silva Filho, R.S. and Redmiles, D.F. *Managing Feature Interaction by Documenting and Enforcing Dependencies in Software Product Lines*, The 9th International Conference on Feature Interactions in Software and Communication Systems (ICFI 2007, Grenoble, France), September 2007, pp.33-48.
- C.69 de Souza, C. R. B., Hildenbrand, T., Redmiles, D. *Toward Visualization and Analysis of Traceability Relationships in Distributed and Offshore Software Development Projects*, First International Conference on Software Engineering Approaches For Offshore and Outsourced Development (SEAFOOD 2006, Zürich, Switzerland), February 2007, pp 182-199.
- C.68 Redmiles, D., Cheng, L-T., Damian, D., Herbsleb, J., Kellogg, W., *Panel: Collaborative Software Engineering – New and Emerging Trends*, Supplemental Proceedings of the Conference on Computer-Supported Cooperative Work (CSCW 2006— Banff, Canada), November 4-8, 2006, pp. 237-239.
- C.67 Al-Ani, B., Sarma, A., Bortis, G., Almeida, I., Trainer, E., van der Hoek, A., Redmiles, D., *Continuous Coordination (CC): A New Collaboration Paradigm*, Workshop on Supporting the Social Side of Large Scale Software Development, in conjunction with the Conference on Computer-Supported Cooperative Work (CSCW 2006— Banff, Canada), November 2006, pp. 69-72.
- C.66 Fonseca, S.B., de Souza, C.R.B., Redmiles, D.F., *Exploring the Relationship between Dependencies and Coordination to Support Global Software Development Projects*, IEEE International Conference on Global Software Engineering (ICGSE 2006, Costão do Santinho, Florianópolis, Brazil), October 2006, p. 243-244.
- C.65 Silva Filho R. S., Geyer, W., Brownholtz, B., Redmiles, D. F. *Understanding the Trade-offs of Blending Collaboration Services in Support of Contextual Collaboration*, The 12th International Workshop on Groupware (CRIWG 2006— Medina del Campo, Spain), September 2006, Lecture Notes in Computer Science, Vol. 4154, pp. 270-285.

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- C.64 Silva Filho, R. S., Redmiles, D. F., *Using Dependencies to Select Variability Realization Techniques in Software Product Line*, Workshop on Managing Variability for Software Product Lines: Working With Variability Mechanisms, in conjunction with the 10th International Software Product Line Conference (SPLC 2006, Baltimore, MD), August 21-24, 2006, pp. 10-15.
- C.63 Rode J., Johansson, C., DiGioia, P., Silva Filho, R. S., Nies, K., Nguyen D. H., Ren J., Dourish, P., Redmiles D. F. *Seeing Further: Extending Visualization as a Basis for Usable Security*, Symposium On Usable Privacy and Security (SOUPS 2006, Pittsburgh, PA), July 12-14, 2006, pp. 145-155.
- C.62 Silva Filho R. S., Redmiles, D. F. *Extending Desktop Applications with Pocket-size Devices*, Symposium On Usable Privacy and Security (SOUPS 2006, Pittsburgh, PA), July 12-14, 2006.
- C.61 Redmiles, D., de Paula, R., Wilensky, H., Kosaka, K. *What Ideal End Users Teach Us About Collaborative Software*, The 2005 International ACM SIGGROUP Conference on Supporting Group Work (Sanibel Island, FL), November 2005, pp. 260-263.
- C.60 Trainer, E., Quirk, S., de Souza, C.R.B., Redmiles, D.F. *Bridging the Gap between Technical and Social Dependencies with Ariadne*, The Eclipse Technology eXchange (eTX) Workshop, held in conjunction with the 20th Object-oriented Programming, Systems, Languages and Applications (OOPSLA) Conference (San Diego, CA), October 2005, pp. 26-30.
- C.59 Silva Filho R. S., Redmiles D. *Striving for Versatility in Publish/Subscribe Infrastructures*, The Fifth International Workshop on Software Engineering and Middleware (SEM 2005), held in conjunction with the Fourth Joint Meeting of the European Software Engineering Conference and ACM SIGSOFT Symposium on the Foundations of Software Engineering (ESEC/FSE 2005. Lisbon, Portugal), September 2005, pp. 17-24.
- C.58 de Paula, R., Ding, X., Dourish, P., Nies, K., Pillet, B., Redmiles, D., Ren, J., Rode, J., and Silva Filho, R. *Two Experiences Designing for Effective Security*, The 2005 Symposium On Usable Privacy and Security (SOUPS 2005, Pittsburgh, PA), July 6-8, 2005, pp. 25-34.
- C.57 Ren, J., Taylor, R.N., Dourish, P., Redmiles, D. *Towards An Architectural Treatment of Software Security: A Connector-Centric Approach*, The Workshop on Software Engineering for Secure Systems, held in conjunction with the 27th International Conference on Software Engineering, (St. Louis, Missouri) May 15-16, 2005, pp. 1-7.
- C.56 De Souza, C. R. B., Redmiles, D., Cheng, L.-T., Millen, D., Patterson, J. *Sometimes You Need to See Through Walls—A Field Study of Application Programming Interfaces*, Conference on Computer-Supported Cooperative Work (CSCW 2004—Chicago, IL), November 2004, pp. 63-71.
- C.55 De Souza, C.R.B., Dourish, P., Redmiles, D., Quirk, S., Trainer, E. *From Technical Dependencies to Social Dependencies*, *Workshop on Social Networks*, held in conjunction with the Conference on Computer-Supported Cooperative Work (CSCW 2004—Chicago, IL), November 2004, available at <http://www.ischool.washington.edu/mcdonald/cscw04/>.
- C.54 De Souza, C.R.B., Redmiles, D., Cheng, L.-T., Millen, D., Patterson, J. *How a Good Software Practice thwarts Collaboration—The Multiple Roles of APIs in Software Development*, the 12th International Symposium on Foundations of Software Engineering (FSE 2004—Newport Beach, CA), November 2004, pp. 221-230.
- C.53 Redmiles, D., Nakakoji, K. *Panel on Design: Supporting Reflective Practitioners*, the 26th International Conference on Software Engineering (ICSE 2004—Edinburgh, Scotland), May 2004, pp. 688-690.

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- C.52 van der Hoek, A., Redmiles, D., Dourish, P., Sarma, A., Silva Filho, R., de Souza, C. *Continuous Coordination: A New Paradigm for Collaborative Software Engineering Tools*, Workshop on Directions in Software Engineering Environments (WoDiSEE 2004), held in conjunction with the 26th International Conference on Software Engineering (ICSE 2004—Edinburgh, Scotland), May 2004, to appear, also available at <http://www.cs.auckland.ac.nz/%7Eherm/WoDiSEE2004/>.
- C.51 Naslavsky, L., Silva Filho, R.S., de Souza, C.R.B., Dias, M., Richardson, D., Redmiles, D. *Distributed Expectation-Driven Residual Testing*, Second International Workshop on Remote Analysis and Measurement of Software Systems (RAMSS 04), held in conjunction with the 26th International Conference on Software Engineering (ICSE 2004—Edinburgh, Scotland), May 2004, pp. 45-49.
- C.50 Fischer, G., Mørch, A., Nakakoji, K., Redmiles, D. *Designing for Reflective Practitioners: Sharing and Assessing Progress by Diverse Communities*, Extended Abstracts of the 2004 Conference on Human Factors and Computing Systems (CHI 2004—Vienna, Austria), April 2004, pp. 1711-1712.
- C.49 de Souza, C.R.B., Redmiles, D., Dourish, P., 'Breaking the Code', *Moving between Private and Public Work in Collaborative Software Development*, International Conference on Supporting Group Work (Group 2003—Sanibel Island, FL), November 2003, pp. 105-114.
- C.48 de Souza, C.R.B., Redmiles, D.F., 'Breaking the Code', *Private and Public Work in Collaborative Software Development*, the 8th European Conference of Computer-Supported Cooperative Work (ECSCW 2003—Helsinki, Finland), September 2003, pp. 40-42.
- C.47 de Souza, C.R.B., Redmiles, D.F., *Opportunities for Extending Activity Theory for Studying Collaborative Software Development*, Workshop on Applying Activity Theory to CSCW Research and Practice, in conjunction with the 8th European Conference of Computer-Supported Cooperative Work (ECSCW 2003—Helsinki, Finland), September 2003, available at <http://www.uku.fi/atkk/actad/ecscw2003-at/>.
- C.46 de Souza, C.R.B., Redmiles, D.F., Mark, G., Penix, J., Sierhuis, M. *Management of Interdependencies in Collaborative Software Development*, ACM-IEEE International Symposium on Empirical Software Engineering (ISESE 2003—Rome, Italy), September 2003, pp. 294-303.
- C.45 de Souza, C.R.B., Oliveira, H.L.R., da Rocha, C.R.P., Gonçalves, K.M., Redmiles, D.F., *Using Critiquing Systems for Inconsistency Detection in Software Engineering Models*, The Fifteenth International Conference on Software Engineering and Knowledge Engineering (SEKE 2003—San Francisco, CA), July 2003, pp. 196-203.
- C.44 Silva Filho, R. S., de Souza, C.R.B., Redmiles, D.F. *The Design of a Configurable, Extensible and Dynamic Notification Service*, Second International Workshop on Distributed Event-Based Systems (DEBS 2003), In conjunction with The ACM SIGMOD/PODS Conference (San Diego, CA), June 2003, available at http://www.eecg.toronto.edu/debs03/papers/silva_filho_etal_debs03.pdf.
- C.43 Silva Filho, R.S., Slabyak, M., Redmiles, D.F. *A Web-based Infrastructure for Group Awareness based on Events*, Workshop on Network Services for Groupware, ACM Conference on Computer Supported Cooperative Work (CSCW 2002—New Orleans, LA), November 2002, available at <http://awareness.ics.uci.edu/~rsilvafi/papers/Workshops/CSCW2002-workshop.pdf>.
- C.42 Kantor, M., Redmiles, D. *CASSIUS: Designing Dynamic Subscription and Awareness Services*, Workshop on Ad hoc Communications and Collaboration in Ubiquitous Computing Environments, ACM Conference on Computer Supported Cooperative Work (CSCW 2002—New Orleans, LA), November 2002, available at <http://www.cs.uoregon.edu/research/wearables/cscw2002ws/papers/Kantor.pdf>.
- C.41 de Souza, C.R.B., Basaveswara, S.D., and Redmiles, D.F. *Using Event Notification Servers to Support Application Awareness*, IASTED International Conference on Software Engineering and Applications (Cambridge, MA), November 2002, pp. 691-697.

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- C.40 de Souza, C.R.B., Penix, J., Sierhuis, M., Redmiles, D. *Analysis of Work Practices of a Collaborative Software Development Team*, International Symposium on Empirical software Engineering (ISESP 2002—Nara, Japan), V. II, October 2002, pp. 3-4.
- C.39 Ledru, Y., Redmiles, D. *Report on the workshop on the State of the art in Automated software Engineering*, The Seventeenth IEEE International Automated Software Engineering Conference (Edinburgh, UK), September 2002, pp. 307-308.
- C.38 Dourish, P., Redmiles, D. *An Approach to Usable Security Based on Event Monitoring and Visualization*, New Security Paradigms Workshop (NSPW 2002—Virginia Beach, VA), September 2002, pp. 84-88.
- C.37 de Souza, C.R.B., Basaveswara, S.D., and Redmiles, D.F. *Supporting Global Software Development with Event Notification Servers*, International Workshop on Global Software Development, Twenty-fourth International Conference on Software Engineering (ICSE 2002—Orlando, FL), May 21, 2002, pp. 9-13.
- C.36 Redmiles, D. *Supporting the End Users' Views*, Working Conference on Advanced Visual Interfaces (AVI 2002—Trento, Italy), May 2002, pp. 34-42.
- C.35 de Souza, C.R.B., Basaveswara, S.D., and Redmiles, D. *Lessons Learned Using Notification Servers to Support Application Awareness*, Meeting of the Human Computer Interaction Consortium (HCIC 2002—Frasier, CO), February 2002, available to member organizations at <http://www.hcic.org/> or as UCI Technical Report UCI-ICS-02-11 (see below).
- C.34 Kantor, M., Redmiles, D. *Creating an Infrastructure for Ubiquitous Awareness*, Eight IFIP TC 13 Conference on Human-Computer Interaction (INTERACT 2001—Tokyo, Japan), July 2001, pp. 431-438.
- C.33 Hilbert, D., Redmiles, D. *Large-Scale Collection of Usage Data to Inform Design*, Eight IFIP TC 13 Conference on Human-Computer Interaction (INTERACT 2001—Tokyo, Japan), July 2001, pp. 569-576.
- C.32 Redmiles, D. *Software Requirements for Supporting Collaboration through Categories*, Workshop on Classification Schemes in Cooperative Work, ACM Conference on Computer Supported Cooperative Work (CSCW 2000—Philadelphia, PA), December 2000, published online at <http://bscw.gmd.de/bscw/bscw.cgi>.
- C.31 Robbins, J., Redmiles, D. *Cognitive Support, UML Adherence, and XMI Interchange in Argo/UML*, The Conference on Construction of Software Engineering Tools (CoSET '99—Los Angeles, CA), May 1999, pp. 61-70.
- C.30 Vaidyanathan, J., Robbins, J., Redmiles, D. *Using HTML to Create Early Prototypes*, Human Factors in Computing Systems CHI '99 Conference (Pittsburgh, PA), Late-Breaking Results, ACM, May 1999, pp. 232-233.
- C.29 Robbins, J., Kantor, M., Redmiles, D. *Sweeping Away Disorder with the Broom Alignment Tool*, Human Factors in Computing Systems CHI '99 Conference (Pittsburgh, PA), Late-Breaking Results, ACM, May 1999, pp. 250-251.
- C.28 Hilbert, D., Redmiles, D. *Separating the Wheat from the Chaff in Internet-Mediated User Feedback*, The Workshop on Internet-based Groupware for User Participation in Product Development, ACM Conference on Computer Supported Cooperative Work (CSCW '98—Seattle, WA), November 1998, pp. 31-35.
- C.27 Hilbert, D., Redmiles, D. *Agents for Collecting Application Usage Data Over the Internet*, The Second International Conference on Autonomous Agents (Agents '98, Minneapolis/St. Paul, MN), ACM, May 10-13, 1998, pp. 149-156.

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- C.26 Robbins, J., Medvidovic, N., Redmiles, D., Rosenblum, D. *Integrating Architecture Description Languages with a Standard Design Method*, The Twentieth International Conference on Software Engineering (ICSE '98, Kyoto, Japan), IEEE Computer Society Press, April 19-25, 1998, pp. 209-218.
- C.25 Hilbert, D., Redmiles, D. *An Approach to Large-Scale Collection of Application Usage Data Over the Internet*, The Twentieth International Conference on Software Engineering (ICSE '98, Kyoto, Japan), IEEE Computer Society Press, April 19-25, 1998, pp. 136-145.
- C.24 Shukla, S., Nardi, B., Redmiles, D. *Hit Squads & Bug Meisters: Discovering New Artifacts for the Design of Software Supporting Collaborative Work*, Human Factors in Computing Systems CHI '98 Conference Summary (Los Angeles, CA), ACM April 1998, pp. 363-364.
- C.23 Robbins, J., Hilbert, D., Redmiles, D. *Software Architecture Critics in Argo*, 1998 International Conference on Intelligent User Interfaces (IUI '98, San Francisco, CA), ACM Press, New York, NY, January 6-9, 1998, pp. 141-144.
- C.22 Hilbert, D., Robbins, J., Redmiles, D. *EDEM: Intelligent Agents for Collecting Usage Data and Increasing User Involvement in Development*, 1998 International Conference on Intelligent User Interfaces (IUI '98, San Francisco, CA), ACM Press, New York, NY, January 6-9, 1998, pp. 73-76.
- C.21 Kantor, M., Zimmermann, B., Redmiles, D. *From Group Memory to Project Awareness Through Use of the Knowledge Depot*, The 1997 California Software Symposium (Irvine, CA), UCI Irvine Research Unit in Software, Irvine, CA, November 7, 1997, pp. 19-26.
- C.20 Robbins, J., Redmiles, D., Rosenblum, D. *Integrating C2 with the Unified Modeling Language*, The 1997 California Software Symposium (Irvine, CA), UCI Irvine Research Unit in Software, Irvine, CA, November 7, 1997, pp. 11-18.
- C.19 Robbins, J., Hilbert, D., Redmiles, D. *Argo: A Design Environment for Evolving Software Architectures*, Nineteenth International Conference on Software Engineering (Boston, MA), IEEE Computer Society Press, ACM Press, New York, NY, IEEE Computer Society Press, Los Alamitos, CA, May 1997, pp. 600-601.
- C.18 Shukla, S., Redmiles, D. *Collaborative Learning in a Bug-Tracking Scenario*, Workshop on Approaches for Distributed Learning through Computer Supported Collaborative Learning (Boston, MA), held in conjunction with the Conference on Computer Supported Cooperative Work (CSCW 96), ACM, November 1996.
- C.17 Robbins, J., Hilbert, D., Redmiles, D. *Using Critics to Analyze Evolving Architectures*, Second International Software Architecture Workshop (ISAW-2—San Francisco, CA), held in conjunction with SIGSOFT'96: the Fourth Symposium on the Foundations of Software Engineering (FSE4), ACM, October 1996, pp. 90-93.
- C.16 Robbins, J., Hilbert, D., Redmiles, D. *Extending Design Environments to Software Architecture Design*, The 11th Annual Knowledge-Based Software Engineering (KBSE-96) Conference (Syracuse, NY), IEEE Computer Society, Los Alamitos, CA, September 1996, pp. 63-72—Best Paper Award.
- C.15 Robbins, J., Morley, D., Redmiles, D., Filatov, V., Kononov, D. *Visual Language Features Supporting Human-Human and Human-Computer Communication*, The IEEE Symposium on Visual Languages (Boulder, CO), IEEE Computer Society, Los Alamitos, CA, September 1996, pp. 247-254.
- C.14 Robbins, J., Redmiles, D. *Software Design From the Perspective of Human Cognitive Needs*, The 1996 California Software Symposium (Los Angeles, CA), UCI Irvine Research Unit in Software, Irvine, CA, April 1996, pp. 16-27.

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- C.13 Rathke, C., Redmiles, D. *Improving the Explanatory Power of Examples by a Multiple Perspectives Representation*, The 1994 East-West Conference on Computer Technologies in Education (EW-ED'94, Crimea, Ukraine), P. Busilovsky, S. Dikareva, J. Greer, V. Petrushin (eds.), September 1994, pp. 195-200 — Best Paper Award.
- C.12 Girgensohn, A., Redmiles, D., Shipman, F. *Agent-Based Support for Communication between Developers and Users in Software Design*, The 9th Annual Knowledge-Based Software Engineering (KBSE-94) Conference (Monterey, CA), IEEE Computer Society Press, Los Alamitos, CA, September 1994, pp. 22-29.
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- C.10 Redmiles, D. *Observations On Using Empirical Studies in Developing a Knowledge-Based Software Engineering Tool*, The 8th Annual Knowledge-Based Software Engineering (KBSE-93) Conference (Chicago, IL), IEEE Computer Society Press, Los Alamitos, CA, September 1993, pp. 170-177.
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- C.2 Redmiles, D. *K*: A FORTRAN-Based Code for Programming and Evaluating Interactive Software*, Engineering Databases: Software for On-Line Applications, PVP-Vol. 96, Proceedings of the 1984 Pressure Vessels and Piping Conference and Exhibition (San Antonio, TX), J.T. Fong (ed.), ASME, New York, NY, June 1984, pp. 61-69.
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- T.27 Scacchi, W., Lopes, C., Mark, G., Nardi, B., Taylor, R., Redmiles, D., Kobsa A. *Decentralized Virtual Activities and Technologies: A Socio-Technical Approach*, Technical Report UCI-ISR-08-4, December 2008.
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- T.25 Sarma, A., van der Hoek, A., Redmiles, D. *A Comprehensive Evaluation of Workspace Awareness in Software Configuration Management Systems*, Technical Report UCI-ISR-07-2, Institute for Software Research, University of California, Irvine, CA, June 2007.
- T.24 Silva Filho R. S., Geyer, W., Brownholtz, B., Guy, I., Redmiles, D., Millen, D. *Architectural Trade-Offs for Collaboration Services Supporting Contextual Collaboration*, Technical Report RC23756, IBM Research Division, T.J. Watson, Cambridge, MA, October 2005.
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- T.21 Silva Filho, R.S., Redmiles, D.F. *Preserving Versatility in Event-Based Middleware*, Technical Report UCI-ISR-04-7, Institute for Software Research, University of California, Irvine, CA, October 2004.
- T.20 Redmiles, D., Mørch, A., Nakakoji, K., Fischer, G. *Proceedings of the CHI 2004 Workshop on Designing for Reflective Practitioners*, Technical Report UCI-ISR-04-2, Institute for Software Research, University of California, Irvine, CA, April 2004.
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- T.17 Redmiles, D.F. *Proceedings of the 2002 Workshop on the State of the Art in Automated software Engineering*, Technical Report UCI-ICS-02-17, Information and Computer Science, University of California, Irvine, CA, March 2002.
- T.16 de Souza, C.R.B., Basaveswara, S.D., Redmiles, D.F. *Lessons Learned Using Notification Servers to Support Application Awareness*, Technical Report UCI-ICS-02-11, Information and Computer Science, University of California, Irvine, CA, March 2002.
- T.15 Kantor, M., Redmiles, D., Zimmermann, B. *Supporting Awareness and Coordination Between Groups*, Technical Report UCI-ICS-99-46, Department of Information and Computer Science, University of California, Irvine, CA, October 1999.
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- T.12 Hilbert, D., Redmiles, D. *Why Let Perfectly Good Usability Data Go to Waste?* Boaster Paper at the Human-Computer Interaction Consortium Meeting (HCIC '98), Technical Report UCI-ICS-98-12, Department of Information and Computer Science, University of California, Irvine, CA, March 1998.
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- T.10 Hilbert, D., Redmiles, D. *Agents for Collecting Application Usage Data Over the Internet*, Technical Report UCI-ICS-97-41, Department of Information and Computer Science, University of California, Irvine, CA, October 1997.
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- T.5 Hilbert, D., Robbins, J., Redmiles, D. *Supporting Ongoing User Involvement in Development via Expectation-Driven Event Monitoring*, Technical Report UCI-ICS-97-19, Department of Information and Computer Science, University of California, Irvine, CA, May 1997.

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- O.2 Hilbert, D., Redmiles, D. *Separating the Wheat from the Chaff in Internet-Mediated User Feedback*, ACM SIGGROUP Bulletin, Vol. 20 No. 1, April 1999, pp. 35-40.
- O.1 Redmiles, D. *Lessons Learned: Software Development Process Perspective*, Report from the ARPA Workshop on Evaluation of Human Computer Interfaces (Bedford, MA), L. Hirschman, D. Cuomo (eds.), The MITRE Corporation, Bedford, MA, November 1994, pp. 9-13.

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- S.9 de Paula, R., Ding, X., Dourish, P., Nies, K., Pillet, B., Redmiles, D., Ren, J., Rode, J., and Silva Filho, R., *Impromptu, a collaborative peer-to-peer file sharing application for evaluating visual interfaces for usable security*, experimental software, see <http://www.isr.uci.edu/projects/swirl/>, University of California, Irvine, 2005-2007.
- S.8 de Souza, C.R.B., Quirk, S., Trainer, E., Redmiles, D., *Ariadne, a Java-based plug-in to the Eclipse IDE that visualizes the social networks present in distributed software projects*, experimental software, see <http://awareness.ics.uci.edu/~ariadne/>, University of California, Irvine, 2004-present.
- S.7 Silva Filho, R.S., Redmiles, D. *Yancees: Yet Another Configurable Extensible Event Service, an event notification server*, experimental software, see <http://awareness.ics.uci.edu/~rsilvafi/yancees/>, University of California, Irvine, 2002-present.
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- S.5 Robbins, J., Redmiles, D. *Argo/UML: a design environment for UML (object-oriented) specification*, an on-going open source project, see www.argouml.com, University of California, Irvine, 1999-present.
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- S.3 Kantor, M., Redmiles, D., Zimmerman, B. *Knowledge Depot, an email-based group memory and group awareness tool*, experimental software, see www.ics.uci.edu/~mkantor/flier/flier.html, University of California, Irvine and Bell Atlantic (formerly NYNEX Corporation), 1999.
- S.2 Redmiles, D. *Explainer, an example-based explanation system for code reuse*, experimental software, see www.ics.uci.edu/~redmiles/explainer.html, University of Colorado, Boulder, 1992.
- S.1 Redmiles, D. *Fhaze, a graphical editor and file repository for alloy phase diagrams*, production software, National Institute of Standards and Technology (formerly National Bureau of Standards), 1985.

RESEARCH FUNDING

- G.21 *VOSS: Enabling Trust in Virtual Teams for Increased Innovation and Effectiveness* (PI D. Redmiles), funded by the National Science Foundation (NSF), Grant #0943262, with a budget of \$399,829, September 2009 – August 2012.
- G.20 *Towards a Socio-technical Dependency Visualization Infrastructure for Jazz* (PI D. Redmiles), funded by the IBM JAZZ Innovation Award program, with a budget of \$20,000, November 2008.
- G.19 *HCC-Large: Decentralized Virtual Activities and Technologies: A Socio-Technical Approach* (PI's W. Scacchi, B. Nardi, C. Lopes, G. Mark, R. Taylor), funded by the National Science Foundation (NSF), Grant #0808783, with a budget of \$2,997,936, September 2008 – August 2011.
- G.18 *An Accenture–UC Irvine Research Partnership in Coordination Technology* (PI's A. van der Hoek, W. Scacchi, D. Redmiles B. Al-Ani), funded by Accenture, with a budget of \$50,000, March 2008 – February 2009.
- G.17 *Graduate Fellowships in Informatics* (PI: D. Redmiles, with the Department of Informatics Faculty), funded by the US Department of Education, Graduate Assistance in Areas of National Need (GAANN) Program, with a budget of \$480,000, August 2007 – August 2010.
- G.16 *Investigating Advanced Concepts, Techniques, and Tools for Visualizing Socio-Technical Interaction Networks* (PI's W. Scacchi, A. van der Hoek, D. Redmiles B. Al-Ani), funded by Intel, with a budget of \$44,600, June 2007 – May 2008.
- G.15 *A Hitachi–UC Irvine Partnership in Display and Interaction Intensive Visualizations for Software Engineering Research, Practice, and Education* (PI's A. van der Hoek, D. Redmiles, W. Scacchi, B. Al-Ani), funded by Hitachi, with a budget of \$8,500, June 2007 – May 2008.
- G.14 *HP Teaching for Technology Grant Initiative – Learning How to Design Software as Software Should Be Designed: A Studio-like, Collaborative Approach to Software Design Education* (PI's A. van der Hoek, D. Redmiles, D. Kay, D. Gallow), funded by Hewlett-Packard, with a budget of \$68,000, April 2007 – March 2008.

RESEARCH FUNDING (CONCLUDED)

- G.13 *Acquisition of an Interactive Whiteboard to Jumpstart Research in High-Tech Software Engineering* (PI's: A. van der Hoek, D. Redmiles, F. Kuester), funded by the UC Irvine Donald Bren School of Information and Computer Sciences (CRIA), with a budget of \$19,500, June 2006.
- G.12 *Unifying Formal and Informal Collaboration through Continuous Coordination* (PI's: D. Redmiles, A. van der Hoek), funded by the National Science Foundation (NSF), with a budget of \$681,402, October 2005 – September 2008 (extended to October 2009).
- G.11 *Improving Software Development Coordination and Expertise Identification using Ariadne* (PI: D. Redmiles), funded by IBM Eclipse Innovation Grant, with a budget of \$27,000, May 2005.
- G.10 *Trustable Technology: Balancing Privacy and Accessibility in Mobile, Ad Hoc Networks* (PI's: P. Dourish, D. Redmiles), funded by Intel Corporation, with a budget of \$279,939, January 2004 – December 2006.
- G.9 *ITR: Usable Security: Towards a Trustable Information Infrastructure* (PI's: P. Dourish, D. Redmiles), ITR-0326105, funded by the National Science Foundation (NSF) ITR Program, with a budget of \$600,000, September 2003 – September 2007.
- G.8 *ITR: An Integrated Social and Technical Approach to the Development of Distributed, Inter-organizational Applications* (PI's: R. Taylor, A. Kobsa, D. Redmiles, G. Mark, P. Dourish, A. van der Hoek, D. Richardson, W. Scacchi), ITR-0205724, funded by the National Science Foundation (NSF) ITR Program, with a budget of \$1,800,000, October 2002 – September 2006.
- G.7 *Collaborative Software Engineering Tools: Workshop and Follow-Up* (PI: D. Redmiles), funded by the National Aeronautics and Space Administration (NASA), with a budget of \$92,334, May 2002 – October 2003.
- G.6 *ITR/SW: Quality Software by Design* (PI's: D. Richardson, D. Redmiles), ITR-0083099, funded by the National Science Foundation (NSF) ITR Program, with a budget of \$499,472, July 2000 – August 2004. (Out of over 1400 full proposals submitted, only 210 – less than 15% – were funded).
- G.5 *Proteus: Assessment and Adaptation through Dynamic Architecture Technology* (PI's: R. Taylor, D. Rosenblum, D. Redmiles, A. van der Hoek, W. Tracz), funded by the Defense Advanced Research Projects Agency (DARPA), with a budget of \$1,400,000, July 2000 – June 2003.
- G.4 *Applying Design Critics to Software Requirements Engineering* (PI: D. Redmiles), funded by the Microelectronics Innovation and Computer Research Opportunities (MICRO), with a budget of \$33,152 (includes \$20,000 in matching funds from Rockwell), August 1997 – July 1999.
- G.3 *Open Technology for Software Evolution: Hyperware, Architecture, and Process* (PI's: R. Taylor, D. Redmiles), funded by the Advanced Research Projects Agency (ARPA), with a budget of \$2,606,666, October 1996 – September 1999.
- G.2 *Improving the Design of Interactive Software* (PI: D. Redmiles), funded by the National Science Foundation (NSF) CAREER Program, with a budget of \$200,000, March 1996 – April 2000. (Out of 1,865 proposals submitted across all disciplines, only 346 – less than 18% – were funded).
- G.1 *Human-Centered, Intelligent Agents Supporting Communication and Collaboration in Domain-Oriented Design Environments* (PI: G. Fisher, Co-PI: D. Redmiles), funded by the National Science Foundation (NSF), with a budget of \$210,000, August 1994 – July 1997.

PRESENTATIONS

- P.84 *Dependencies and Reflections in Collaborative Software Engineering*, Institute for Software Research (ISR), Annual Research Forum (Irvine, CA), June 2008.
- P.83 *Transdisciplinary Education and Collaboration*, with G. Fischer, Meeting of the Human Computer Interaction Consortium (HCIC 2008, Frasier, CO), February 2008.
- P.82 *Collaborative Software Engineering – New and Emerging Trends, Panel Moderator*, the Conference on Computer-Supported Cooperative Work (CSCW 2006— Banff, Canada), November 2006.
- P.81 Continuous Coordination (CC): A New Collaboration Paradigm, Workshop on Supporting the Social Side of Large Scale Software Development, in conjunction with the Conference on Computer-Supported Cooperative Work (CSCW 2006— Banff, Canada), November 2006.
- P.80 Experiences Related to Knowledge Management Software, Second IEEE International Conference on Space Mission Challenges for Information Technology (SMC-IT 2006), Mini-Workshop 6, Collaboration and Knowledge Management in a Global Space Environment (Pasadena, CA), July 2006.
- P.79 *Unifying Formal and Informal Collaboration through Continuous Coordination*, Panel Presentation at the Meeting of the Human Computer Interaction Consortium (HCIC, Frasier, CO), February 2006.
- P.78 *Unifying Formal and Informal Collaboration through Continuous Coordination*, Center for Life-Long Learning and Design, University of Colorado at Boulder (Boulder, CO), January 2006.
- P.77 Usable Security: Towards a Trustable Information Infrastructure, Poster Presentation at the Cybertrust PI Meeting (Irvine, CA), September 2005.
- P.76 *Two Experiences Designing for Effective Security*, the 2005 Symposium On Usable Privacy and Security (SOUPS 2005, Pittsburgh, PA), July 2005.
- P.75 *Institute for Software Research: Overview*, with R. Taylor, Boeing Information Technology Air Force Systems (Long Beach, CA), July 2004.
- P.74 *Collaborative Communication and Organizational Structure*, Boeing Integrated Defense Systems (Anaheim, CA), July 2004.
- P.73 *Supporting Reflective Practitioners, Panel on Design*, the 26th International Conference on Software Engineering (ICSE 2004—Edinburgh, Scotland), May 2004.
- P.72 *Continuous Coordination: A New Paradigm for Collaborative Software Engineering Tools*, Workshop on Directions in Software Engineering Environments (WoDiSEE 2004), held in conjunction with the 26th International Conference on Software Engineering (ICSE 2004—Edinburgh, Scotland), May 2004.
- P.71 *Designing for Reflective Practitioners: Sharing and Assessing Progress by Diverse Communities*, Workshop by same title held in conjunction with the 2004 Conference on Human Factors and Computing Systems (CHI 2004—Vienna, Austria), April 2004.
- P.70 Kick-off meeting for “Balancing Privacy and Accessibility in Mobile, Ad Hoc Networks,” with Paul Dourish, INTEL Site Visit at UC Irvine, March 2004.
- P.69 Awareness, Coordination, and Privacy, Panel Review of the Institute for Software Research, UC Irvine, March 2004.
- P.68 *Research Methodology and Initial Issues*, with C.R.B. de Souza, Boeing Integrated Defense Systems (Anaheim, CA), January 2004.

PRESENTATIONS (CONTINUED)

- P.67 *Using Activity Theory to Study Collaborative Software Development*, International Workshop on Community-Driven Evolution of Knowledge Artifacts, UC Irvine, December 2003.
- P.66 *'Breaking the Code', Private and Public Work in Collaborative Software Development*, Poster Presentation at the 8th European Conference of Computer-Supported Cooperative Work (ECSCW 2003—Helsinki, Finland), September 2003.
- P.65 *Social Creativity and Violence: of the Same Source*, Symposium on Social Creativity and Meta Design, University of Canterbury (Christchurch, NZ), March 2003.
- P.64 *Using Event Notification Servers to Support Application Awareness*, IASTED International Conference on Software Engineering and Applications (Cambridge, MA), November 2002.
- P.63 *Using Event Notification Servers to Support Application Awareness*, DARPA-DASADA Program Manager Site Visit at UC Irvine, August 2002.
- P.62 *Using Event Notification Servers to Support Awareness*, UC Irvine, Institute for Software Research (ISR) Joint Meeting with the Jet Propulsion Laboratory (JPL, Pasadena, CA), August 2002.
- P.61 *Using Event Notification Servers to Support Application Awareness*, Hewlett Packard Non-Stop Server Division (Cupertino, CA), August 2002.
- P.60 *Using Event Notification Servers to Support Awareness*, Workshop on Collaborative Software Engineering (Mountain View, CA), August 2002.
- P.59 *CASSIUS: Cross Application Subscription Service Information Update Server*, DARPA-DASADA Technology Exposition, Joint Demonstration with R.S. Silva Filho, July 2002.
- P.58 *Practical Lessons Learned While Using Notification Servers to Support Application Awareness*, Workshop on the State of the Art in Automated Software Engineering (Irvine, CA), June 2002.
- P.57 *Supporting the End Users' Views*, University of Colorado, Center for Life-long Learning and Design, International Symposium on Social Creativity, (Breckenridge, CO), June 2002.
- P.56 *Supporting the End Users' Views*, Working Conference on Advanced Visual Interfaces (AVI 2002—Trento, Italy), Invited Keynote Talk, May 2002.
- P.55 *Lessons Learned Using Notification Servers to Support Application Awareness*, Meeting of the Human Computer Interaction Consortium (HCIC, Frasier, CO), February 2002.
- P.54 *Usability Throughout the Lifecycle, Panel on Obstacles to Integrating Usability Engineering into Software and Requirements Engineering*, The Sixteenth IEEE International Automated Software Engineering Conference (Coronado Island, CA), November 2001.
- P.53 *Supporting the End Users' Views*, UC Irvine, Institute for Software Research (ISR) Joint Meeting with the Jet Propulsion Laboratory (JPL), UC Irvine, October 2001.
- P.52 *CASSIUS: Cross Application Subscription Service Information Update Server*, DARPA-DASADA Technology Exposition, Joint Demonstration with C.R.B. de Souza, July 2001.
- P.51 *Human-Centered Software Development*, School of Computer Science and Electrical Engineering, The University of Queensland (St Lucia, Queensland, Australia), April 2001.
- P.50 *EDEM: Expectation Driven Event Monitoring*, University of Oregon, Eugene, Working Group on Social Agents (Eugene, OR), April 2001.

PRESENTATIONS (CONTINUED)

- P.49 *Software Requirements for Supporting Collaboration through Categories*, Workshop on Classification Schemes in Cooperative Work, ACM Conference on Computer Supported Cooperative Work (CSCW 2000—Philadelphia, PA), December 2000.
- P.48 *Human-Centered Software Development*, Information Systems Institute, Technische Universität Wien (Vienna, Austria), September 2000.
- P.48 *Human-Centered Software Development*, Institut für Hygiene und Arbeitsphysiologie, Eidgenössische Technische Hochschule (ETH, Zurich, Switzerland), September 2000.
- P.47 Panel on *Evaluation of Automated Software Engineering Systems*, The Fourteenth IEEE International Automated Software Engineering Conference (Cocoa Beach, FL), October 1999.
- P.46 *Organizational Memory, Life-long Learning, and Challenges to Software Engineering*, CU Boulder, Workshop on Life-Long Learning and Organizational Memory (Breckenridge, CO), May 1999.
- P.45 *Human-Centered Software Development*, UC Irvine, ICS Research Symposium (Irvine, CA), January 1999.
- P.44 *Separating the Wheat from the Chaff in Internet-Mediated User Feedback*, ACM Conference on Computer Supported Cooperative Work (CSCW '98), Workshop on Internet-based Groupware for User Participation in Product Development (Seattle, WA), presented with D. Hilbert, November 1998.
- P.43 Two Demonstrations, *Argo/UML*, and *Expectation-Driven Event Monitoring (EDEM)*, The Thirteenth IEEE International Conference on Automated Software Engineering (Honolulu, HI), October 1998.
- P.42 *Integrating Architecture Description Languages with a Standard Design Method*, The Twentieth International Conference on Software Engineering (ICSE '98, Kyoto, Japan), April 1998.
- P.41 *An Approach to Large-Scale Collection of Application Usage Data Over the Internet*, The Twentieth International Conference on Software Engineering (ICSE '98, Kyoto, Japan), City, April 1998.
- P.40 *Knowledge Management for Software Design*, USC, Meeting of the Software Engineering Group (Los Angeles, CA), April 1998.
- P.39 *Knowledge Management for Software Design*, CU Boulder, Meeting of the Human Computer Interaction Consortium (HCIC, Frasier, CO), March 1998.
- P.38 *An Approach to Large-Scale Collection of Application Usage Data Over the Internet*, UC Irvine, Bay Area Round Table (BART) Meeting (Palo Alto, CA), February 1998.
- P.37 *EDEM: Intelligent Agents for Collecting Usage Data and Increasing User Involvement in Development*, The 1998 International Conference on Intelligent User Interfaces (IUI '98, San Francisco, CA), January 1998.
- P.36 Panel on *Architectural Languages and Design Environments: From Research to Practice*, Software Engineering Institute, The 97 Software Engineering Symposium (Pittsburgh, PA), August 1997.
- P.35 *Expectation-Driven Event Monitoring (EDEM)*, UC Irvine, CU Boulder, UMass Amherst, ARCADIA Consortium Meeting (Boulder, CO), June 1997.
- P.34 *Supporting Ongoing User Involvement in Development via Expectation-Driven Event Monitoring*, CU Boulder, Meeting of the “Life-Long Learning and Design” Research Group (Boulder, CO), June 1997.
- P.33 *Supporting Evolutionary Design via Expectation Agents*, DARPA, Design Rationale Cluster (EDCS DR) Meeting (Stone Mountain, GA), March 1997.

PRESENTATIONS (CONTINUED)

- P.32 *Applying Usability Inspections to Web Page Design*, UC Irvine, Bay Area Round Table (BART) Meeting (Palo Alto, CA), February 1997.
- P.31 *Argo Software Architecture Design Environment*, DARPA, Information Management Cluster (EDCS IM) Meeting (Manassas, VA), presented with D. Hilbert, October 1996.
- P.30 Panel on *How the "Web" Influences KBSE Technology*, The Eleventh IEEE Knowledge-Based Software Engineering (KBSE-96) Conference (Syracuse, NY), September 1996.
- P.29 *Evolutionary Design of Complex Software*, DARPA, Software Environments Workshop (San Diego, CA), March 1996.
- P.28 *Addressing Human, Cognitive Needs in Software Design Environments*, UC Irvine, Bay Area Round Table (BART) Meeting (Palo Alto, CA), September 1995.
- P.27 *Evolutionary Design of Complex Software*, Rockwell Science Center (Thousand Oaks, CA), September 1995.
- P.26 *Refining Requirements and Design of Interactive Software through a Cognitive Walkthrough*, Southern California Client/Server User Group Meeting (Torrence, CA), July 1995.
- P.25 *A Curriculum for Human-Centered Software Development*, Sun Microsystems (Mountain View, CA), June 1995.
- P.24 *Refining Requirements and Design of Interactive Software through a Cognitive Walkthrough*, UC Irvine, Irvine Research Unit in Software, Software Engineering Tools and Technologies (SETT) Meeting (Irvine, CA), May 1995.
- P.23 *Human-Centered Software Development*, UC Irvine, ICS Alumni Organization (Irvine, CA), February 1995.
- P.22 *Agent-Based Support for Communication between Developers and Users in Software Design*, UC Irvine, Bay Area Round Table (BART) Meeting (Palo Alto, CA), November 1994.
- P.21 *Human-Centered Software Development*, UC Irvine, Irvine Research Unit in Software, Fall Research Review (FRR) (Irvine, CA), October 1994.
- P.20 *Human-Centered Software Development*, City University (London, England), October 1994.
- P.19 *Agent-Based Support for Communication between Developers and Users in Software Design*, IEEE Conference on Knowledge-Based Software Engineering (Monterey, CA), September 1994.
- P.18 *From Programming Tasks to Solutions—Bridging the Gap through the Explanation of Examples*, UC Irvine, Information and Computer Science Colloquium (Irvine, CA), April 1994.
- P.17 *Designing Useful and Usable Computational Environments*, Advanced Research Projects Agency (ARPA), Human-Computer Interface (HCI) Evaluation Workshop, the MITRE Corporation (Bedford, MA), March 1994.
- P.16 *Discussion of the Paper, The Impact of Graphic Design on User Interfaces*, by K. Reichenberger, at the Meeting of the Human Computer Interaction Consortium (HCIC) (Frasier, CO), February 1994.
- P.15 *Beyond Object-Oriented Programming: A Knowledge-Based Architecture for Contextualized Software Design*, Joint Presentation with S. Lindstaedt, Colorado Advanced Software Institute (CASI) Annual Research Symposium (Denver, CO), October 1993.

PRESENTATIONS (CONCLUDED)

- P.14 *Observations On Using Empirical Studies in Developing a Knowledge-Based Software Engineering Tool*, Knowledge-Based Software Engineering (KBSE) Conference (Chicago, IL), September 1993.
- P.13 *Reducing the Variability of Programmers' Performance Through Explained Examples*, Human Factors in Computing Systems (INTERCHI) Conference (Amsterdam, The Netherlands), April 1993; also presented at the Integrated Publications and Information Systems Institute (GMD-IPSI) (Darmstadt, Germany), May 1993, and at the Institute for Computer Science, University of Stuttgart (Stuttgart, Germany), May 1993.
- P.12 *Beyond Object-Oriented Programming: A Knowledge-Based Architecture for Contextualized Software Design*, Joint Presentation with G. Fischer, U S West Corporation, Advanced Technology Division (Boulder, CO), October 1992.
- P.11 *Prototypes of Domain-Oriented Design Environments*, Knowledge-Based Software Engineering (KBSE) Conference, Demonstration Track (Tyson's Corner, VA), September 1992.
- P.10 *A Knowledge-Based Interface to Promote Software Understanding*, Knowledge-Based Software Engineering (KBSE) Conference (Syracuse, NY), September 1991.
- P.9 *Supporting Software Reuse through Examples*, Human Factors in Computing Systems (CHI) Conference, Doctoral Consortium Track (New Orleans, LA), April 1991.
- P.8 *Supporting Software Reuse through Program Examples*, University of Colorado Industrial Affiliates Conference (Boulder, CO), February 1991; also Joint Presentation with S. Henninger at the International Business Machines (IBM) Corporation (Boulder, CO), March 1991.
- P.7 *Explanation to Support Software Reuse*, American Association for Artificial Intelligence (AAAI) Workshop on Explanation (Boston, MA), July 1990.
- P.6 *A Conceptual Framework and Innovative Systems for Accessing Knowledge for Software Reuse*, Joint Presentation with G. Fischer and S. Henninger, Meeting of the Human Computer Interaction Consortium (HCIC) (San Diego, CA), February 1990.
- P.5 *A Knowledge-Based Design Environment for Graphical Network Editors*, Hawaii Conference on System Sciences (HICSS), Software Track (Kailua-Kona, Hawaii), January 1989.
- P.4 *Computer Software for Data Representation and Interaction*, Aluminum Company of America (ALCOA) Laboratories, Process Control & Computer Technology Division (Alcoa Center, PA), January 1987.
- P.3 *Two Views of Building a Database: Computer Science and Materials Science*, Joint Presentation with J.L. Murray, Calculated Phase Diagrams (CALPHAD) Conference (Boston, MA), June 1985.
- P.2 *The American Society for Metals/National Bureau of Standards Joint Project on Computerized Phase Diagrams*, Joint Presentation, Press Conference and Demonstration for the late Malcolm Baldrige, then Secretary of Commerce (Washington, D.C.), February 1985.
- P.1 *K*: A FORTRAN-Based Code for Programming and Evaluating Interactive Software*, Pressure Vessels and Piping Conference and Exhibition, Track on Engineering Databases: Software for On-Line Applications (San Antonio, TX), June 1984.

UNDERGRADUATE COURSES TAUGHT

IN4MATX 44 Seminar in Informatics Research Topics
 IN4MATX 111 Software Methods and Tools
 IN4MATX 117 Project in System Design
 IN4MATX 131 Human Computer Interaction
 IN4MATX 143 Information Visualization
 IN4MATX 161 Social Analysis of Computerization
 IN4MATX 199 Individual Study

GRADUATE COURSES TAUGHT

IN4MATX 209s Seminar in Informatics
 IN4MATX 211 Software Engineering
 IN4MATX 231 Human-Computer Interaction
 IN4MATX 233 Knowledge-Based User Interfaces
 IN4MATX 235 Advanced User Interface Architecture
 IN4MATX 242 Ubiquitous Computing and Interaction
 IN4MATX 295 Special Topics – Internet Usability
 IN4MATX 295 Special Topics – Ubiquitous Computing
 IN4MATX 295 Special Topics – Knowledge Management
 IN4MATX 290 Research Seminar
 IN4MATX 298 Thesis Supervision
 IN4MATX 299 Individual Study

UNDERGRADUATE CLUB SPONSORED

Faculty Sponsor for the Social Informatics Club founded by Ashu Kumra, AY 2001-2002.

GRADUATE STUDENTS ADVISED***Dissertation Committee Chair (Principal PhD Advisor, University of California, Irvine)***

Roberto Silveira Silva Filho	Summer 2009, Postdoctoral Researcher, Siemens Corporate Research.
Cleudson Ronald Botelho de Souza	Spring 2005, Associate Professor, Department of Informatics at Federal University of Pará
Michael Kantor	Winter 2001, Senior Software Engineer, WaveMaker Software
Jason Robbins	Summer 1999, Member Technical Staff, Google
David Hilbert	Spring 1999, Research Scientist, FX Palo Alto Laboratory

Dissertation Committee Chair (Principal PhD Advisor, in progress)

Wiwat Ruengmee	PhD expected Spring 2010, University of California, Irvine
Hiroko Wilensky	PhD expected Summer 2010, University of California, Irvine
Tom Herring	PhD expected Spring 2011, University of California, Irvine
Erik Trainer	PhD expected Spring 2011, University of California, Irvine
Benjamin Köhne,	PhD expected Spring 2012, University of California, Irvine

Dissertation Committee Member (outside of University of California, Irvine)

Yolanda Jones	2008, Drexel University, Philadelphia
Marcelo Cataldo	2007, Carnegie Mellon University, Researcher, Bosch
Tonja Molin-Juustila	2006, University of Oulu, Finland, Lecturer at University of Oulu
Mohamed El-Said	1994, University of Colorado, Boulder, Faculty, Al-Azhar University

Dissertation Committee Member (University of California, Irvine)

Patrick Shih	PhD, in progress
Jose Romero-Mariona	PhD, in progress
Sukanya Ratanotayanon	PhD, in progress
Bryan Semaan	PhD, in progress
Norman Su	PhD, in progress
David Nguyen	PhD, in progress
Wang, Yang	PhD, in progress
Sushil K Bajracharya	PhD, in progress
Art Hitomi	PhD, in progress
Hendrickson Scott	PhD, in progress
Steve Abrams	Summer 2009, Postdoctoral Researcher, University of California, Irvine
Eric M. Dashofy	Spring 2007, The Aerospace Corporation
Anita Sarma	Spring 2007, Assistant Professor, University of Nebraska, Lincoln
Girish Suryanarayana	Spring 2007, Siemens Research
Jie Ren	Winter 2006, Software Engineer, Google
Emily Navarro	Fall 2006, Research Scientist, UCI
Chris Lueer	Summer 2004, Assistant Professor, Ball State University
Marcio Dias	Fall 2004, Lecturer, University of Durham
Danyel Fisher	Summer 2004, Researcher, Microsoft Research
Chris Luer	Summer 2004, Assistant Professor, Ball State University
Madhu Reddy	Summer 2003, Assistant Professor, Penn State University
Marlon Vieira	Fall 2002, Program Manager, Siemens
Clark Turner	Summer 1999, Associate Professor, Cal Poly, San Luis Obispo
Arthur Reyes	Summer 1999, Assistant Professor, UT, Austin
Juei Chang	Winter 1999, Member Technical Staff, Sun
Neno Medvidovic	Fall 1998, Assistant Professor, USC
Gregory Alan Bolcer	Fall 1998, Founder and CTO, Endeavors Technologies
Nancy Eickelmann	Spring 1997, Member Technical Staff, Motorola
Hadar Ziv	Spring 1997, Member Technical Staff, Quest Software
T. Owen O'Malley	Fall 1996, Member Technical Staff, Reasoning
Holly Hildreth	Spring 1996, Member Technical Staff, TRW

Master's Degrees Supervised (other than PhD students, University of California, Irvine)

Jungmin Shin	Fall 2008, Software Engineer, Samsung Electronics
Stephen Quirk	Spring 2007, Software Engineer, Intuit
Santhoshi Dumpala Basaveswara	Spring 2002
Roshan Vijayshankar	Spring 2000
Bharti Jhi	Spring 2000
Jaya Vaidyanathan	Spring 1999, Member Technical Staff, Philips Semiconductors
Anthony Kutscher	Spring 1997, Engineer, Rockwell
Shilpa Shukla	Spring 1997, Consultant

Master's Degrees Committee Member (other than PhD students, University of California, Irvine)

Jae Young Lee	in progress
Paul DiGioia	Spring 2007
Jon Froelich	Spring 2004
Ryan Yasui	Spring 2004

Master's Degrees Supervised (other than PhD students, outside of University of California, Irvine)

Mehran Majidi	Spring 1991, University of Colorado, Boulder, Member Technical Staff, IBM
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POSTDOCTORAL SCHOLARS SUPERVISED

Matthew Bietz	January 2009-present
Ban Al-Ani	June 2006-present
Rogério De Paula	September 2004-2005, Emerging Markets Platforms Group, Intel Corporation

SERVICE TO THE RESEARCH COMMUNITY

IEEE/ACM International Conference on Automated Software Engineering (ASE, formerly Knowledge-Based Software Engineering)

2009	Program Committee Member and Steering Committee Member
2008	Program Committee Member and Steering Committee Member
2007	Program Committee Member and Steering Committee Member
2006	Steering Committee Member
2005	Conference Chair and Steering Committee Member
2004	Program Committee Member and Steering Committee Member
2003	Program Committee Member and Steering Committee Member
2002	Program Committee Member and Steering Committee Member
2001	Program Committee Member and Steering Committee Member
2000	Program Committee Member and Steering Committee Member
1999	Program Committee Member and Steering Committee Member
1998	Program Co-Chair
1997	Program Committee Member
1996	Panels and Tutorials Chair and Program Committee Member

Symposium On Usable Privacy and Security (SOUPS)

2008	Program Committee Member
2007	Program Committee Member

IEEE Symposium on Visual Languages and Human-Centric Computing

2009	Program Committee Member
2008	Program Committee Member

Organizer of the Panel, *Collaborative Software Engineering – New and Emerging Trends*, Conference on Computer-Supported Cooperative Work (CSCW 2006— Banff, Canada), November 2006.

Organizer of the Panel, *Supporting Reflective Practitioners*, the 26th International Conference on Software Engineering (ICSE 2004—Edinburgh, Scotland), May 2004.

Co-Organizer of a Workshop with K. Nakakogi, *Designing for Reflective Practitioners: Sharing and Assessing Progress by Diverse Communities*, held in conjunction with the 2004 Conference on Human Factors and Computing Systems (CHI 2004—Vienna, Austria), April 2004.

Program Committee Member for the 2004 Asia Pacific Conference on Computer-Human Interaction. (APCHI '04).

Program Committee Member for the 2003 IEEE Symposium on Visual and Multimedia Software Engineering (VMSE '03)

Joint guest editor with B. Nardi for Computer-supported Cooperative Work, Special Issue on Activity Theory and the Practice of Design, Vol. 11, No. 1-2, 2002.

Joint guest editor with B. Nuseibeh for Automated Software Engineering, Special Issue of Selected Papers from the Thirteenth IEEE International Conference on Automated Software Engineering, Vol. 7, No. 2, May 2000.

Program Committee Member for the 1999 ACM International Conference on Intelligent User Interfaces (IUI '99)

Posters and Informal Demonstrations Chair for the Twenty-First International Conference on Software Engineering (ICSE '99)

California Software Symposium

1998	Conference Co-Chair
1995-1997	Program Committee Member

SERVICE TO THE RESEARCH COMMUNITY (CONTINUED)

Program committee member and panel chair for the Tenth IEEE Conference on Artificial Intelligence for Applications, San Antonio, March 1994

Reviewer for Additional Conferences

Conference on Human Factors and Computing Systems (CHI 2007, CHI 2008, CHI 2009)
 Eclipse Technology Exchange Workshop at OOPSLA 2006 (ETX 2006)
 Conference on Computer-Supported Cooperative Work (CSCW 2002, CSCW 2006)
 ACM Conference on Hypertext and Hypermedia (Hypertext 2000, 2001, 2003)
 Computer Support for Collaborative Learning (CSCL 2002)
 ACM Symposium on User Interface Software and Technology (UIST 1996, 2000, 2001)
 International Conference on Software Engineering (ICSE 1997)
 International Conference on Application and Theory of Petri Nets (1993)

Reviewer for Journals:

ACM Transactions on Software Engineering and Methodology
 ACM Transactions on Computer-Human Interaction
 Automated Software Engineering
 Empirical Software Engineering
 Human Computer Interaction
 Information and Software Technology
 International Journal of Human-Computer Studies
 IEEE Transactions on Software Engineering
 IEEE Computer Graphics and Applications
 IEEE Software
 Journal of Interactive Media in Education
 Journal of Visual Languages and Computing
 Kluwer Computer Supported Cooperative Work

Reviewer for Books: Morgan Kaufman

Reviewer for Proposals:

National Science Foundation
 University of California MICRO
 University of California DISCOVERY

Workshops, Meetings, and Panels Organized with the UC Institute for Software Research (ISR, Irvine, CA)

June 2008	Meeting of the Southern California Knowledge Management Consortium
June 2006	Panel on Knowledge Management (see http://ajax.ics.uci.edu:8080/events/Research-Forum-2006/)
March 2006	Meeting of the Southern California Knowledge Management Consortium
December 2003	International Workshop on Community-Driven Evolution of Knowledge Artifacts (see http://www.isr.uci.edu/events/CDEKA-Workshop/program.html)
August 2002	ISR-NASA Ames Collaborative Software Engineering Tools Workshop (see http://www.isr.uci.edu/events/NASA-Workshop/)
June 2002	Workshop on the State of the Art in Automated Software Engineering (see http://www.isr.uci.edu/events/ASE-Workshop-2002/)

SERVICE TO THE RESEARCH COMMUNITY (CONCLUDED)

Meetings Organized for the UC Irvine Research Unit in Software, Bay Area Round Table (Palo Alto, CA)

September 10, 1999	Organizational Memory and Project Awareness
June 11, 1999	Ethnography to Inform Tool Design
February 14, 1997	Multi-Media Interface Design: Design Guidelines for the World Wide Web
January 10, 1997	Distributed Coordination and Communication Technology: Process Support for Distributed Technologies
December 13, 1996	Distributed Coordination and Communication Technology: Organizational Learning
November 8, 1996	Distributed Coordination and Communication Technology: Distributed Software Development
October 11, 1996	Distributed Coordination and Communication Technology: Introduction and Overview
September 15, 1995	Design Environments for User Interfaces

Meetings Organized for the UC Irvine Research Unit in Software, Software Engineering, Tools, and Technologies (SETT) Meeting (Irvine, CA)

May 1995	Requirements Engineering
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SERVICE TO THE UNIVERSITY COMMUNITY***Campus-wide Service at the University of California, Irvine***

Faculty Board for Undecided/Undeclared Freshmen (serving AY 1999-2000, AY 2000-2001, AY 2001-2002)
 IRB "C" "Human Subjects Committee" (member, AY 1998-1999, part of AY 1999-2000, AY 2000-2001)
 Web Advisory Committee (member, AY 1998-1999)
 ICS Representative to Academic Assembly (serving AY 1998-1999)
 LGBRC (Lesbian, Gay, and Bisexual Resource Center) Advisory Board (member since Fall 1997)
 Art Gallery's Advisory Committee (member, AY 1997-1998)
 Digital Imaging Search Committee, School of Fine Arts (member, AY 1995-1996)
 Student Discipline and Grievance Review Board (member, AY 1996-1997)
 Senate Library Committee (member, AY 1996-1997)

Schoolwide Service in the Donald Bren School of Information and Computer Sciences, University of California, Irvine

Ubiquitous Computing Search Committee (chair, AY 2001-2002)
 "Mini-CEP" ad hoc Committee between ECE and ICS (member, AY 2001-2002)
 Faculty Mentor (van der Hoek, AY 2001-2002, AY 2002-2003)
 Academic Personnel (member, AY 2001-2002) – includes three (3) subcommittees that met separately, including two (2) that I chaired
 Educational Policy Committee (chair, AY 1999-2000)
 CORPS Search Committee (member, AY 1998-1999)
 Computing Resources Committee (chair, AY 1996-1997)
 Software Search Committee (member, AY 1996-1997, AY 2000-2001, ex-officio AY 2001-2002, AY 2002-2003)
 Library Committee (chair, AY 1996-1997)
 Graduate Admissions Committee (member, AY 1994-1995, AY 1995-1996, chair, AY 2003-2004)
 Graduate Policy Committee (member, AY 1994-1995, AY 1995-1996 and AY 2003-2004)
 Institute for Software Research (formerly, Irvine Research Unit on Software, member since July 1994)

Departmental Service in the Department of Informatics, University of California, Irvine

Department Chair (July 2004-present)

HONORS

- 2009 Fellow of Automated Software Engineering (“ASE Fellow”)
- 2002 UCI Undergraduate Research Opportunity (UROP) Award, Spring 2002, to sponsor M. Slabyak.
- 2000 University of California, Irvine Outstanding Professor from the Dept. of Information and Computer Science
- 1998 University of California Chancellor’s Award for Excellence in Undergraduate Research
- 1998 University of California Faculty Career Development Award
- 1996 Best Paper, IEEE Knowledge-Based Software Engineering Conference
- 1996 National Science Foundation CAREER Award
- 1994 Best Paper, East-West Conference on Computer Technologies in Education
- 1985 United States Department of Commerce Bronze Medal
- 1980 Phi Kappa Phi Honor Society