

DEBRA J RICHARDSON

Professor of Informatics

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CURRENT POSITION

Professor, Department of Informatics, Bren School of ICS

University of California, Irvine

Research and Teaching Interests:

Requirements engineering for sustainability and development

Specification-based testing and analysis, automated test oracles, software testing processes

Recruitment and retention of women and minorities in/to computing and Information Technology

Supervised fifteen PhD dissertations

EDUCATION

Doctor of Philosophy

September 1981

Computer and Information Science, University of Massachusetts, Amherst

Ph.D. Dissertation: A Partition Analysis Method to Demonstrate Program Reliability.

The primary goal of this research was the development of the partition analysis method, which incorporates the analysis of a specification and an implementation in an integrated application of verification and testing techniques.

Master of Science

May 1978

Computer and Information Science, University of Massachusetts, Amherst

Master's Thesis: Theoretical Considerations in Program Testing.

Bachelor of Arts

March 1976

Mathematics, Revelle College, University of California, San Diego

Graduated With Highest Honors (summa cum laude).

ADMINISTRATIVE POSITIONS

Founding Dean

January 2003 – present

Donald Bren School of Information and Computer Sciences

Managed ICS' transition from department structure to school organization, composed of three departments:

Annual budget of approximately \$14M state funding, \$13M extramural funding,

\$23M endowment and \$2-5M annual private support;

Faculty growth from 43 to 73 senate (regular rank) faculty, also including nine lecturers, nine research faculty and four emeriti faculty; Staff growth from 45 to 55 career staff;

Strived to increase faculty diversity in ICS, increased to 28% women and 33% ethnic minority (up from 17% and 15%, respectively).

Raised an eight-figure gift (\$20 million) consisting of ten endowed chairs (\$1.5-\$2 million each) and ICS

Dean's Fund for Excellence (funds to support research initiation activities such as interdisciplinary and university/industry collaborations).

Raised ICS' first major alumni gift (\$1.3Million CRT).

Oversaw development of Donald Bren Hall, a 87,000 ASF research, administrative and educational building giving the Bren School of ICS a presence, fostering community and supporting high-tech collaborative and inter-disciplinary research through unique design elements and reconfigurability.

July 2000 – December 2002

Department Chair

Information and Computer Science, University of California, Irvine

Reported directly to Executive Vice Chancellor (Provost) – i.e., with dean's authority.

Managed free-standing department during period of rapid growth while increasing quality:

Approximately \$11M state funding, \$9M external funding, \$6M private support;

Prepared strategic plan for faculty hiring, curriculum development, emerging centers of excellence, school-based organizational structure, and major fund raising activities;

Faculty growth from 34 to 43 senate (regular rank) faculty and 5 to 11 full-time lecturers;

Staff growth from 35 to 45 full-time staff;

Student growth from 1250 to 2150 students (undergraduates: 1100 to 1900, graduates: 150 to 252)

while increasing quality by all objective measures: national rankings, SAT scores, GRE scores;

Created and developed faculty mentoring program;

Initiated various student mentoring programs, entrepreneurship training and student product competition;

Established ICS Cabinet (advisory board), ICS Leadership Council, ICS Educational Outreach Board, and ICS Chapter of UCI Alumni Organization;

Raised first endowed chair for ICS (\$1.5Million administrative chair initially held by department chair, now held by dean).

Spearheaded the effort to elevate the Department of Information and Computer Science to a School (a long-standing ICS goal, which required approval/endorsement by ICS Faculty, UCI Administration, UCI Academic Senate, UC System-wide Academic Senate, California Legislature, UC President, and UC Board of Regents), leading to appointment as founding dean.

PRIOR ACADEMIC POSITIONS

Associate Professor

1994 – 2003

Assistant Professor

1987 – 1994

Information and Computer Science, University of California, Irvine

Research primarily in the area of specification-based testing, automated test oracles, software testing processes, software architecture and architecture-based testing and analysis; primarily supported by NSF, DARPA, and UC MICRO.

Supervised eight Ph.D. dissertations.

Courses taught generally covered software engineering, software testing, formal methods, formal specifications, requirements engineering, quality assurance, programming languages.

Visiting Assistant Professor

1981 – 1987

Computer and Information Science, University of Massachusetts, Amherst

Research primarily in the area of specification-based testing; supported by NSF, DARPA, ONR, and RADC.

Taught software engineering, operating systems, compilers, data structures, programming languages.

ACADEMIC-RELATED LEADERSHIP

Chair, Computer Science Education Week

2010 – present

Computer Science Education Week was endorsed by the US House of Representatives (December 5-11 2010) to promote the role computing plays in our nation and today's society and the importance of computer science education at all levels. The intent is to develop a national campaign, much along the lines of Engineering Week, with activities and events taking place across the country and beyond.

Advisory Council Chair, Computer Science Teachers Association

2005 – present

ACM's Computer Science Teachers Association is a membership organization that supports and promotes the teaching of computer science and computing. CSTA provides opportunities for K-12 teachers and students to better understand the computing disciplines and to more successfully prepare themselves to teach and learn.

Leadership Team / Hub Director, NCWIT

2004 – present

National Center for Women and Information Technology

The National Center for Women and Information Technology is a national coalition of more than 300 prominent corporations, academic institutions, government agencies, and non-profits working to increase women's participation in computing and information technology.

Leadership Team / co-PI, ADVANCE

2002 – present

UCIrvine's ADVANCE Institutional Transformation program, originally funded by NSF but now institutionalized by the campus, is targeted to assuring gender and ethnic equity on the faculty; key element is school-based equity advisors who develop school-specific programs in consultation with leadership team and equity advisor team.

Co-PI, California Alliance for Minority Participation (CAMP)

2001 – present

CAMP is a statewide program for under-represented students supported by NSF Louis Stokes (LSAMP) Program. Through peer mentoring and tutoring and faculty mentored research opportunities, CAMP supports student development and completion of the B.S. degree in science, engineering, and mathematics.

CRA Deans Committee Chair, Computing Research Association

2008 – 2012

The CRA-Deans Group was established in an effort to provide leadership and community to emerging and established colleges of computing and interdisciplinary "IT" schools. The group is organized around schools of computing, schools of information, and/or schools of information technology with heads that report directly to the Provost or Chief Academic Officer at a university. Served as Vice Chair 2006-2008.

Co-Director, American Indian Summer Institute in Computer Science

2001 – 2010

UCIrvine's AISICS is a summer program for high school students that aims to introduce computer science, study Native American culture and issues relevant to the global economy, introduce students to a research university environment, and assist students in pursuing higher education, while retaining their cultural pride and identity. The program is currently funded by a NSF Broadening Participation in Computing award.

OTHER COMMUNITY SERVICE

Board of Directors

2001 – present

Girls Incorporated of Orange County

Girls Inc is a national nonprofit organization dedicated to inspiring girls to be "strong, smart, and bold"; Girls Inc Orange County offers vital educational programs, particularly in high-risk underserved areas, to help girls confront subtle societal messages about their value and potential, and prepare them to lead successful, independent, and fulfilling lives.

Advisory Board

2002 – 2010

Association for Women in Technology, Southern California Chapter

Association for Women in Technology is a national non-profit organization of women devoted to the advancement of women working in computing and technology. AWT SoCal is dedicated to improving communication, furthering professional development, promoting education, and increasing opportunities through networking and programs for women and girls interested in the technology field.

Board of Directors

2001 – 2008

ARCS Foundation, Orange County chapter

The Orange County Chapter of the ARCS (Achievement Rewards for College Scientists) Foundation is one of twelve chapters that are dedicated to helping the best and brightest United States students by providing scholarships to scientists and engineers.

HONORS AND AWARDS

Automated Software Engineering Fellow **November 2009**

IEEE/ACM Fellow of the Automated Software Engineering

Recognized as the first alumni for outstanding achievements and advocacy in education, for:

"Her vision and leadership have created a strong foundation for a strong academic unit that will serve generations of students to come."

Outstanding Achievement in Education **April 2009**

University of Massachusetts–Amherst Computer Science, 1st Annual OAAA

Bestowed in perpetuity on those who are deemed by the ASE Steering Committee to have rendered significant and sustained contributions to the ASE Community, through their scientific accomplishments and their service to the ASE Conferences, ASE Journal, and to the ASE research community in general.

2009 OCEC President's Award **February 2009**

Orange County Engineering Council, 11th Annual Issue

"The recipient of this award is nominated by the current OCEC President, based on his/her evaluation of a certain individual's special abilities, service to the engineering profession, contribution to society and any other extraordinary qualities." Specifically recognized for "her major efforts in advancing computer sciences and obtaining associated funding to strengthen associated educational opportunities."

2007 Top Twenty Women to Watch **March 2007**

Orange County Metro

A woman to watch for a passion to "change the face of computing – at UC Irvine and across the nation" and "revamping UC Irvine's curriculum to focus on collaborative work, while conducting outreach to girls to show that computer science is fun."

Woman of the Month **February 2002**

Women in Technology International (WITI), Orange County Chapter

Recognized for Accomplishments in Advancing Women in Technology,

2001 Ten Women Making a Difference **March 2001**

Orange County Metro, 11th Annual Issue

Recognized as the number two woman making a difference in Orange County, in three ways: "1) as a researcher in software testing technology, 2) as chair of the largest and fastest growing Computer Science department in the UC system, and 3) as a highly successful woman in a field overwhelmingly dominated by men, serving as a beacon to other women showing that CS is a path they can follow."

Most Influential Paper **March 1996**

ICSE-18: 18th International Conference on Software Engineering (Berlin, Germany)

Received "Most Influential Paper" award for ICSE-8 paper, which appeared in Proceedings of the 8th International Conference on Software Engineering (London, England). The paper, "A Comparison of Data Flow Path Selection Criteria" was judged to have had significant impact on the software engineering field ten years after its publication.

UNIVERSITY SERVICE (additional roles underlined)

System-wide service

University of California Microelectronics Innovation and Computer Research Opportunities (MICRO) Program Executive Committee, 1992 – 2006; Chair, 1998 – 2006

University of California Industry-University Cooperative Research Program (IUCRP) Directors Committee, 1998 – 2006

President's Engineering Advisory Council (PEAC) Task Force on Industry-University Research Contracts, 1999 – 2000

University of California Center for Computer Security Planning Group, 1999 – 2000

Campus-wide service

WASC Accreditation Planning Committee, 2007/08 – present

Cal-it2 Governing Board, 2001 – present

Cal-it2 Steering Committee, 2001 – present

Chancellor's Advisory Committee, July 2000 – present

EVC&Provost's Academic/Deans Council, July 2000 – present

Dean's Advancement Council, July 2000 – present

Executive Committee, UC Institute for Software Research, 1999 – present; founding member, 1999

California Alliance for Minority Participation, Advisor/PI, 1997 – present

School of Social Sciences Dean Review Committee, 2007

Division of Undergraduate Education Dean Search Committee, Chair, 2005

Long-Range Campus Planning, Resources Committee, Chair, 2004

School of the Arts Dean Selection Committee, 2003

Cal-it2 Director Search Committee, 2003

Associate Vice Chancellor Advancement Search Committee, Chair, 2002

Director of Athletics Search Committee, 2002

Special Committee to Evaluate Senate Restructuring, 2002 – 2003

Committee on Committees, 1999/00 – 2001/02

WASC Accreditation Planning Committee, 1998/99 – 2000/01

Academic Senate Cabinet, 1998/99

Senate Representative Assembly (as CEP Chair), 1998/99

Senate Executive Committee, 1997/98

Council on Educational Policy, 1996/97 – 1998/99; Chair, 1997/98 – 1998/99

Calendar Committee, 1997/98 – 1998/99

Enrollment Council, 1997/98 – 1998/99

Budget Advisory Committee, 1997/98 – 1998/99

Undeclared/Unaffiliated Undergraduate Advisor, 1996/97 – 1998/99

Senate Representative Assembly, 1993/94 – 1994/95

Pregraduate Mentorship Selection Committee, 1991/92 – 1992/93

Student Affairs Committee, 1989/90

School-wide Service (school established December 2002)

Founding Dean, December 2002 – present

Director, Ada Byron Research Center, November 2003 – present

Department Service

Department Chair, July 2000 – December 2002

Graduate Admissions Committee, 1987/88, 1988/89 & 1999/2000

Personnel Committee, 1989/90, 1991/92, 1997/98 – 1998/99; Chair, 1997/98 – 1998/99

Affirmative Action and Sexual Harassment Officer, 1993/94–1994/95, 1997/98 – present

Undergraduate Policy Committee 1995/96 – 1996/97; Chair, 1996/97

Women in Computer Science Club, Faculty Advisor, April 1995 – present; Founder, 1996

Computing Resource Committee, 1992/93 – 1994/95; Chair, 1993/94 – 1994/95

Executive Committee, Irvine Research Unit in Software, 1991 – 1999;
Acting Director, 1995/96; Founding Member, 1991

Space Committee, 1990/91

PROFESSIONAL SERVICE (additional roles underlined)

Service Committees

ACM Computer Science Teachers Association Advisory Council, 2005–present, Chair, 2007 – present

CRA IT-Deans Group, 2000–present, elected Chair, 2008–2012, Vice Chair, 2004 – 2008

Information Schools Caucus, Deans Leadership Group, 2002–present, Membership Chair, 2007 – present

Fund Raising Committee, Grace Hopper Celebration of Women in Computing,
Academic Fund Raising Chair, 2006

Fund Raising Committee, Richard Tapia Celebration of Diversity in Computing, 2005

Advisory / Review Panels

Proposal Review, M.S. in Information and Communication Technology for Development,
University of Colorado–Boulder, March 2010

California Governor's Broadband Taskforce, 2007 – present

Research Center Review, Lero–the Irish Software Engineering Research Centre,
Science Foundation Ireland Review Committee, March–July 2008

Academic Advisory Committee, College of Computing and Information Technology, University of
Albany, 2007

Provost's Advisory Group, Future of Information Technology Research and Education at CWRU, Case
Western Reserve University, 2003 – 2005

Provost's Advisory Group on College of Computing, University of Nevada, Las Vegas, 2002 – 2005

Strategic Advisory Council, Department/School of Computer Science, Virginia Technical Institute
and State University, 2002 – 2005

Academic Review Panel, Information School, University of California–Berkeley, 2006

Decennial Review Panel, School of Information Science and Technology, Claremont Graduate
University, 2006

Academic Review Panel, Department of Computer Science, University of Colorado–Boulder, 2005

Tier II Review Committee, Department of Computer Science, Embry-Riddle University, 2005

Texas Technology Workforce Development Grants Program Evaluation, Austin, Texas, 2005

NSF CISE CCF Committee of Visitors, summary presentation to CISE Advisory Board, 2004.

NRC Review of NIST Information Technology Lab, 2001 – 2004.

NSF CISE Research Infrastructure Program, December 1996.

NSF CISE Educational Infrastructure Program, May 1994

Steering Committees

ASE: International Conference on Automated Software Engineering, 2001 – 2011.

IWSSD: International Workshop on Software Specification and Design, 2000 – present.

ISSTA: International Symposium on Software Testing and Analysis, 2000 – present, Steering Committee Chair, 2000 – 2002.

Journal Boards

IEEE Transactions on Software Engineering, Editor-in-Chief Reappointment Evaluation Committee.

Program Committees (last ten years, full list available on request)

ASE'2010: 25th International Conference on Automated Software Engineering, November 2010

i-Conference 2008: Third Annual i-Conference, Planning Committee, February 2008

WADS'2006: Workshop on Architecting Dependable Systems, Philadelphia, PA, June 2006

CSEE&T'2006: 19th Conference on Software Engineering and Training, April 2006

ASE'2005: 20th International Conference on Automated Software Engineering, November 2005

ASE'2004: 19th International Conference on Automated Software Engineering, to be held September 2004.

ASE'2003: 18th International Conference on Automated Software Engineering, November 2003.

ESEC/FSE'2003: 9th European Software Engineering Conference (ESEC), 10th International Symposium on Foundations of Software Engineering, to be held September 2003.

WADS'2003: ICSE 2003 Workshop on Software Architectures for Dependable Systems, with 25th International Conference on Software Engineering, May 2003.

ASE'2002: 17th International Conference on Automated Software Engineering, September 2002.

ASE'2001: 16th International Conference on Automated Software Engineering, General Chair, November 2001.

ESEC/FSE'2001: 8th European Software Engineering Conference (ESEC) and the 9th International Symposium on Foundations of Software Engineering, September 2001.

ICSE'2001: 23rd International Conference on Software Engineering, May 2001.

IWSSD-10: 10th International Workshop on Software Specification and Design, Program Co-Chair, November 2000.

ASE'2000: 15th International Conference on Automated Software Engineering, September 2000.

ISSTA'2000: 5th International Symposium on Software Testing and Analysis, General Chair, August 2000.

FMSP-4: 4th Workshop on Formal Methods in Software Practice, General Chair, August 2000.

International Workshop on Automated Program Analysis, Testing and Verification, June 2000.

ASE'99: 14th International Conference on Automated Software Engineering, October 1999.

Additional Professional Activities

UC Institute for Software Research, Founding Member 1999, Executive Committee 1999 – present

Irvine Research Unit in Software, Founding Member 1991, Acting Director 1995, Executive Committee 1991 – 1999

Arcadia Consortium: Principal Investigator 1987-1997, Analysis Working Group Chair, 1987 – 1997

Advanced Research Projects Agency: Software Environment Workshop, Analysis and Testing Working Group Chair, 1994 – 1997

LEADERSHIP PRESENTATIONS

Selected presentations at professional meetings (last ten years)

(does not include software engineering research related presentations nor presentations at UCIrvine)

Finding your Research Direction (Moderator and Panelist). Colorado Celebration of Women in Computing, Golden, CO, November 2010.

Imposter Plenary Panel: Addressing Unique Challenges (Moderator). Grace Hopper Celebration of Women in Computing, Atlanta GA, October 2010.

Managing Up – Partnering with your Dean. CRA Conference, Snowbird UT, July 2010.

Guidelines for Coordinating Faculty Recruitment. CRA Conference, Snowbird UT, July 2010.

Turning good policies into good practice: The need for culture change, Plenary Panel. National Center for Women and Information Technology Summit on Women & IT, May 2010.

Interventions & Evaluations @ICS: Challenges and a few Solutions. National Center for Women and Information Technology Summit on Women & IT, May 2010.

Why Everyone Matters: Bridging the Great Divide between K-12 and University. Computer Science and Information Technology Symposium, Closing Keynote Presentation, Washington, DC, June 2009.

Programs, Degrees, and Jobs, What Do I Tell My Students? Computer Science and Information Technology Symposium, San Antonio TX, June 2008.

Current Diversity Challenges Facing Higher Education. Cornell University, May 2008.

Computing, Math, Science: Your Future. AAUW Tech Trek, October 2007.

Women in Science: Diversity in Discovery. AAUW, August 2007.

Gender Equity from Multiple Perspectives: Increasing Girls' Participation in Computing. National Educational Computing Conference, Atlanta, GA, June 2007.

Leading Change in Academia: Consensus and Conscientious Subversion, Senior Tech Leaders: "Building and Sustaining Change in Technology Cultures", San Diego, CA, October 2006.

ADVANCING Women in Computer Science: Why such success at UCI? Grace Hopper Celebration of Women in Computing, San Diego, CA, October 2006.

What's So Cool About Working on Hot Technology? Panel, Grace Hopper Celebration of Women in Computing, San Diego, CA, October 2006.

Academic Leadership Panel, Dedicated to Denice Denton, Grace Hopper Celebration of Women in Computing, San Diego, CA, October 2006.

Automated Software Engineering: What's missing in education?, 20th IEEE/ACM International Conference on Automated Software Engineering, November 2005.

The Engineering Dean's Role in Faculty Diversity, Panel Session, WEPAN / NAMEPA 2005 Joint National Conference, Las Vegas, Nevada, April 2005.

Advancing Women in Computer Science and Engineering at UCIrvine: What works, What doesn't?, NSF ADVANCE Engineering Workshop, Washington DC, December 2004.

Recruitment and Retention of Women & Minorities in Computer Science and Information Technology, CRA Snowbird Conference, July 2003.

Administrative Options, CRA-W Workshop on Reserch Careers for Women in Computer Science & Engineering, Post-tenure Track, Federated Computing Research Conference, June 2003.

The Tenure Challenge, CRA-W Workshop on Reserch Careers for Women in Computer Science & Engineering, Pre-tenure Track, Federated Computing Research Conference, June 2003.

Testament to Success, *UC Systemwide CAMP Symposium*, January 2003.

The MICRO Program, *UCLA Electrical Engineering Research Symposium*, University of California, Los Angeles, October 2002.

Assessing Teamwork, *New Pressures on Computer Science & Engineering Academic Units Session*, Computing Research Association Conference, Snowbird, Utah, July 2002.

Overcoming Barriers to Multi-Disciplinary Research, *New Pressures on Computer Science & Engineering Academic Units Session*, CRA Conference, Snowbird, Utah, July 2002.

Encouraging Multi-Disciplinary Research within and beyond IT Schools, *Information Technology Deans Meeting*, Computing Research Association, Snowbird, Utah, July 2002.

Diversity is the Science of Life and the Spice of Science, *UCI Chief Executive Roundtable Retreat*, Maui, Hawaii, May 2002.

Women in Computing: Bridging the Digital Divide, *Amelia Earhardt Awards*, Irvine, CA, May 2001.

The Tenure Challenge, *New Software Engineering Faculty Symposium*, ICSE'2001: 23rd International Conference on Software Engineering, Orlando, Florida, May 2001.

Women in Computing Research, *Discovering a Career in Research: Ask the Experts*, Committee on the Status of Women in Computing, Computing Research Association, February 2001.

GRANTS AND AWARDS

(not including software engineering research grants, complete list available on request)

Recent Leadership Awards

- F-1. C-Spirit: Coastline – Seamless Articulation Program for Informatics Intersegmental Transfer, Co-Principal Investigator, National Science Foundation, Articulation Partnerships, July 2005 – June 2008, \$150,000 co-award with Coastline Community College total \$300,000.
- F-2. National Center for Women and Information Technology, Co-Principal Investigator, submitted to National Science Foundation Special Projects (CNS), July 2004 – June 2007, \$267,527 sub-award for UC Irvine Hub of \$3.25 Million Center grant.
- F-3. A Bachelor of Science in Informatics: Establishing an Engaging, Problem-Based, Creativity-Oriented Computer Science Undergraduate Degree Program, Co-Principal Investigator, Fund for the Improvement of Post-Secondary Education, July 2003 – June 2006, \$448,303.
- F-4. An Integrated Social and Technical Approach to the Development of Distributed Inter-Organizational Applications, Co-PI, National Science Foundation, Information Technology Research Program, July 2002 – June 2006, \$1,800,000.
- F-5. Faculty Outreach Collaborations Uniting Scientists, Students, and Scholars (FOCUS), Participating Investigator, National Science Foundation, July 2002 – June 2006, \$14,200,000.
- F-6. California Alliance for Minority Participation (CAMP), Co-PI, National Science Foundation, November 2001 – October 2006, \$2,500,000.
- F-7. ADVANCE Institutional Transformation Award, Co-Principal Investigator (Oversight of two Equity Advisors in their role of Faculty Assistant to the Dean), October 2001 – September 2006, \$3,453,391.
- F-8. Assistance in Areas of National Need (GAANN), Department of Education, August 2001 – August 2004, \$982,800.

PUBLICATIONS (selected publications over last five years, complete list available on request)

Journal Articles (last five years)

- J-1. Debra Richardson, Ruthe Farmer, and Cameron Wilson. CSEdWeek Wants You! ACM SIGCSE Bulletin, Vol.43, No. 3, September 2011.
- J-2. Debra Richardson, Cameron Wilson, and Ruthe Farmer. Why Computer Science Education Week? ACM SIGCSE Bulletin, Vol.43, No. 1, March 2011.
- J-3. Chang Liu, En Ye, and Debra J. Richardson. Software Library Usage Pattern Extraction Using a Software Model Checker. *International Journal of Computers and Applications*, Vol. 31, No. 2, 2009.
- J-4. Mamadou H. Diallo, Leila Naslavsky, Thomas A. Alspaugh, Hadar Ziv and Debra J. Richardson. Toward Architecture Evaluation Through Ontology-based Requirements-level Scenarios, in *Architecting Dependable Systems V*, Editors: R. de Lemos, F. Di Giandomenico, C. Gacek, H. Muccini, and Marlon Vieira, *Springer Lecture Notes in Computer Science*, vol. 5315, 2008.
- J-5. Henry Muccini, Marcio Dias and Debra J. Richardson. Software architecture-based regression testing, *Journal of Systems and Software*, October 2006, vol. 79, no. 10, 1379-1396.
- J-6. Lihua Xu, Hadar Ziv, Thomas A. Alspaugh and Debra J. Richardson. An architectural pattern for non-functional dependability requirements, *Journal of Systems and Software*, October 2006, vol. 79, no. 10, 1370-1378.
- J-7. Harry Bruce, Debra J. Richardson and Michael Eisenberg. The I-Conference: Gathering of the Clans of Information, *ASIST Bulletin*, April/May 2006.

Conference Papers (last five years, 120 peer-reviewed conference publications over career)

- C-1. Debra J. Richardson, Ban Al-Ani and Hadar Ziv. Requirements Engineering at the Margins: Avoiding Technological Hubris through Alternative Approaches. *Proceedings of the Workshop on the Future of Software Engineering Research (FOSER)*, held in conjunction with 18th International Symposium on Foundations of Software Engineering (FSE-18), Santa Fe, NM, November 2010.
- C-2. Kristina Winbladh, Hadar Ziv and Debra Richardson. iMuse - Interactive Model-based Use-case and Storytelling Environment. *Proceedings of the 18th International Symposium on Foundations of Software Engineering (FSE-18)*, Santa Fe, NM, November 2010.
- C-3. Jose Romero-Mariona, Hadar Ziv and Debra Richardson. Increasing Trustworthiness Through Security Testing Support. *Proceedings of the Second International Symposium on Secure Computing (SecureCom-10)*, held in conjunction with International Conference on Information Privacy, Security, Risk and Trust (PASSAT-10), Minneapolis, MN, August 2010.
- C-4. Jose Romero-Mariona, Hadar Ziv and Debra Richardson. ASSURE: Automated Support for Secure and Usable Requirements Engineering. *Proceedings of the 2010 International Conference on Software Testing and Analysis (ISSTA-2010)*, Trento, Italy, July 2010.
- C-5. Leila Naslavsky, Hadar Ziv and Debra Richardson. MbSRT²: Model-based Selective Regression Testing with Traceability. *Proceedings of the Third International Conference on Software Testing, Verification and Validation (ICST 2010)*. Paris, France, April 2010.
- C-6. Gabriela Marcu, Jaihee Kate Lee, Samuel J. Kaufman, Rebecca W. Black, Paul Dourish, Gillian R. Hayes and Debra J. Richardson. Design and Evaluation of a Computer Science and Engineering Course for Middle School Girls, *Proceedings of the 41st ACM*

- Technical Symposium on Computer Science Education (SIGSCE'2010), Milwaukee, WI, March 2010.
- C-7. Jose Romero-Mariona, Hadar Ziv and Debra J. Richardson. Formality of the Security Specification Process. *Proceedings of the 43rd Hawaii International Conference on System Sciences (HICSS'2010)*. Kauai, HI, January 2010.
- C-8. Jose Romero-Mariona, Hadar Ziv and Debra J. Richardson. Secure and Usable Requirements Engineering. ASE 09 Doctoral Symposium. *Proceedings of the 24th IEEE/ACM International Conference on Automated Software Engineering (ASE'09)*. Auckland, New Zealand, November 2009.
- C-9. Jose Romero-Mariona, Hadar Ziv and Debra J. Richardson. Engineering Secure Software Through Requirements. *Proceedings of the 2009 Society for the Advancement of Chicanos and Native Americans in Science (SACNAS'09)*. Dallas, TX, October 2009.
- C-10. Leila Naslavsky, Hadar Ziv and Debra Richardson. A Model-Based Regression Test Selection Technique. *Proceedings of the 25th IEEE International Conference on Software Maintenance (ICSM'09)*. Edmonton, Alberta, Canada, September 2009.
- C-11. Jose Romero-Mariona, Hadar Ziv, Debra J. Richardson and Dennis Bystritsky. Towards Usable Cyber Security Requirements. *Proceedings of the Cyber Security and Information Intelligence Research Workshop (CSIRW)*, Oak Ridge, TN, April 2009.
- C-12. Jose Romero-Mariona, Hadar Ziv and Debra J. Richardson. Later Stages Support for Security Requirements. *Proceedings of the Richard Tapia Celebration of Diversity in Computing*, Portland OR, April 2009.
- C-13. Kristina Winbladh, Hadar Ziv and Debra J. Richardson. Eliciting Required Characteristics for Usable Requirements Engineering Approaches. *Proceedings of the ACM Symposium on Applied Computing, RE Track (ACM SAC)*, Honolulu, HI, March 2009.
- C-14. Jose Romero-Mariona, Hadar Ziv and Debra Richardson. A Recommendation System for Security Requirements. *Proceedings of the International Workshop on Recommendation Systems for Software Engineering (RSSE)*, held in conjunction with FSE-16, Atlanta, GA, November 2008.
- C-15. Leila Naslavsky, Hadar Ziv and Debra J. Richardson. Using Model Transformation to Support Model-Based Test Coverage Measurement, *Proceedings of the Third Workshop on Automation of Software Test*, held in conjunction with ICSE'08, Leipzig, Germany, May 2008.
- C-16. Leila Naslavsky, Hadar Ziv and Debra J. Richardson. Towards Leveraging Model Transformation to Support Model-based Testing. *Proceedings of the 22nd IEEE/ACM International Conference on Automated Software Engineering (ASE)*, Atlanta, GA, November 2007.
- C-17. Thomas A. Alspaugh, Susan Elliott Sim, Kristina Winbladh, Mamadou Diallo, Hadar Ziv and Debra J. Richardson. The Importance of Clarity in Usable Requirements Specification Format. *Proceedings of the Fifth International Workshop on Comparative Evaluation in Requirements Engineering (CERE)*, held in conjunction with RE'07, New Delhi, India, October 2007.
- C-18. Jose Romero-Mariona, Hadar Ziv and Debra J. Richardson. CCARCH: Architecting Common Criteria Security Requirements. *Proceedings of the Third International Symposium on Information Assurance and Security (IAS)*. IEEE CS Press. Manchester, UK, August 29-31, 2007.

- C-19. Rand Waltzman, Kristina Winbladh, Thomas A. Alspaugh and Debra J. Richardson. In the Requirements Lies the Power. *Proceedings of the International Conference on Software Engineering and Knowledge Engineering (SEKE)*, Boston, MA, July 2007.
- C-20. Leila Naslavsky, Hadar Ziv and Debra J. Richardson. Towards Traceability of Model-based Testing Artifacts. *Proceedings of the Third Workshop on the Advances of Model-Based Testing (AMOST)*, co-located with the International Symposium on Software Testing and Analysis (ISSTA), London, UK, July 2007.
- C-21. Mamadou H. Diallo, Leila Naslavsky, Hadar Ziv, Thomas A. Alspaugh and Debra J. Richardson. Evaluating Software Architectures Against Requirements-level Scenarios, *Proceedings of the Third International Workshop on the Role of Software Architecture for Testing and Analysis (ROSATEA)*, Boston, MA, July 2007.
- C-22. Jose Romero-Mariona, Hadar Ziv and Debra J. Richardson. Toward Hybrid Requirements-based and Architecture-based Testing, *Proceedings of the Third International Workshop on the Role of Software Architecture for Testing and Analysis (ROSATEA)*, Boston, MA, July 2007.
- C-23. Jose Romero-Mariona, Hadar Ziv and Debra J. Richardson. Toward Mapping of Security Requirements into Software Architectures, *Proceedings of the 2007 Computer Security Conference (CSC)*, Myrtle Beach, SC, April 2007.
- C-24. Leila Naslavsky, Henry Muccini and Debra J. Richardson. Scenario-based and State Machine-based Testing: An Evaluation of Automated Approaches, *Proceedings of the First International Workshop on Model-based Testing and Object-Oriented Systems (M-TOOS)*, in conjunction with OOPSLA, Portland, OR, October 2006.
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- C-30. Leila Naslavsky, Thomas A. Alspaugh, Debra J. Richardson and Hadar Ziv. Using Scenarios to Support Traceability. *Proceedings of the Workshop on Traceability in Emerging Forms of Software Engineering (TEFSE)*, Long Beach, CA, November 2005.
- C-31. Thomas A. Alspaugh, Debra J. Richardson, Thomas A. Standish and Hadar Ziv. Scenario-driven Specification-based Testing against Goals and Requirements. *Proceedings of the 11th International Workshop on Requirements Engineering: Foundation for Software Quality (REFSQ)*. Porto, Portugal, June 2005.

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M.S. Spring 2006, Ph.D. Summer 2009
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- HyeJung Choi *M.S. Spring 2009*
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