

CURRICULUM VITAE

Sergiu-Mihai DASCALU

1664 N. Virginia St. / MS 171
Reno, NV, 89557 USA
Tel: (775) 784-4613 (UNR)

E-mail: dascalus@cse.unr.edu
Web: <http://www.cse.unr.edu/~dascalus>

EDUCATION

10/2001 *PhD in Computer Science, Dalhousie University, Halifax, Nova Scotia, Canada*

- Thesis: *Combining Semi-formal and Formal Notations in Software Specification: An Approach to Modelling Time-Constrained Systems*. Advisor: Dr. Peter Hitchcock.

06/1982 *MS in Automation and Computers, Polytechnic Institute of Bucharest, Romania*

- Thesis: *A Microprocessor-based Control System with Embedded Mathematical Processor*. Advisor: Dr. Traian Ionescu.

06/1976 *High School Baccalaureate Diploma, Mihai Viteazul High School Bucharest, Romania*

- Exact sciences section, program with emphasis on mathematics.

ACADEMIC EXPERIENCE

07/2002 *Associate Professor* (since 07/2008) **and** *Assistant Professor* (07/2002-06/2008)
- present **Department of Computer Science & Engineering, University of Nevada, Reno (UNR), USA**

- Research on software engineering (SE) and human-computer interaction (HCI). In particular: software specification, software engineering in support of interdisciplinary research, software environments, software processes, human-computer interaction design, and simulation environments.
- Instructor for the courses CS 425/CS 625 Software Engineering (capstone course), CS 426/CPE 426 Senior Projects in Computer Science/Computer Engineering (capstone courses), CS 320 Interaction Design, CS 420/CS 620 Human-Computer Interaction, CS 709B Advanced Software Project Management and Development, CS 790Z/CS 791Z Graduate Seminar/Topics on SE, and CS 790M/CS 791M Graduate Seminar/Topics on HCI.
- Also, instructor for CS 494/CS 694 Internship in Computer Science, CS 793 Independent Studies (several disciplines: Human-Computer Interaction, Software Engineering, Programming Languages, Object-Oriented Programming, Modeling & Simulation), CS 796 Professional Paper, CS 797 Thesis, and CPE 799 Dissertation.
- Conducted research projects, including: HARMONY approach and environment for multi-notation software specification, Stratified Programming (SP), REDWOOD snippet-based drag-and-drop programming environment, VCAMPUS virtual campus environment, STORM tool for requirements and use cases modeling, CROWN VISION metrics for managing large-scale software projects, IRIS software for project management maps decomposition colorizing, Earned Schedule outcome estimation tool, research on software and systems quality assurance, software engineering and HCI methods for

developing virtual reality (CAVE-based) applications, CAVEMANDER platform for building command and control applications in CAVE, and Cyberinfrastructure developments for Nevada climate change research, education, and outreach.

- Between July 2002 and October 2011, 53 of my grant applications were funded (19 as PI, 10 as co-PI, and 24 as advisor for students) and 2 grant applications are currently under review (1 co-PI, 1 advisor). ***Funded grant applications are listed on pages 9-11.***
- Author and co-author of technical papers published in international journals and conferences proceedings. For details, please see ***List of publications on pages 17-29.***
- Member of the Graduate Committee of the CSE Department (September 2004 – September 2007 and September 2010 – present)
- Member of the Undergraduate Committee of the CSE Department (September 2002 – September 2004 & September 2007 – September 2009)
- Member of the UNR College of Engineering's Scholarships Committee (since March 2006).
- Member of the Search and Hiring Committee of the CSE Department (2003, 2006, and 2008).
- Member of the Students Committee of the CSE Department (September 2008 – August 2009).
- Member of the Assessment Committee of the CSE Department (September 2008 – August 2009 and September 2010 - present).
- Member of the Evaluation Committee of the CSE Department (2008-2009).
- Graduate advisor: 2 PhD and 31 Master students graduated so far (MS: 26 theses and 5 professional papers), 6 PhD and 3 MS students currently advised. ***Details on advised students & their theses/research areas are available on pages 6-8.***
- Member of the examination committee of 12 PhD and 39 Master students who graduated between 2003 and 2011 as well as of 4 PhD students and 1 MS students expected to graduate in 2012 or 2013.
- Undergraduate advisor: 23 students in 2003, 36 in 2004, 31 in 2005, 29 in 2006, 25 in 2007, and 22 in 2008, and 15 in 2009, and 5 in 2010 (in Spring 2010 I was in sabbatical).
- Chair of the Evaluation Committee of the CSE Department (2010 – present).
- Chair of UNR CSE/EE/IEEE Colloquia series (2005-2009): organized 10 invited talks in 2005, 10 in 2006, 13 in 2007, 9 in 2008, and 8 in 2009.
- Chair of two search and hiring committees for CSE administrative faculty positions (database designer/administrator and, respectively, software developer), 2009.
- Chair of the CSE department's Assessment Committee since August 2011.
- Involved in the organization of the IGT- CSE UNR Symposium 2005 and 2006.
- Involved in the organization of the Bally Technologies – CSE UNR Workshop 2008.
- Member of UNR Undergraduate Research Awards review panel (Spring 2004 and Fall 2005) and of UNR Network for Undergraduate Research (since Fall 2004).
- Research mentor for 29 undergraduate students who received individually or in group a total of 19 awards: 5 NSF EPSCoR UROP awards, 4 NSF EPSCoR CIP awards, 3 UNR Honors Undergraduate Awards (HURAs), and 7 UNR General Undergraduate Awards (GURAs).
- Hired with research funds a total of 21 undergraduate students who worked on a total of 7 projects.
- Advised 2 groups of 4 undergraduate students each who obtained the 2nd prize in the Nevada Governor's Cup Competition (\$10,000 each) and 2 other groups (5 students in total) who qualified to the Governor Cup's final phase (these two groups received \$1,500 and, respectively \$1,000).
- Supported from research grants 12 Graduate Research Assistants and advised 4 Teaching Assistants.
- In Fall 2003, obtained UNR capstone course designation for CS 426 Senior Projects in CS.
- In Spring 2006, obtained capstone course designation for CPE 426 Senior Projects in CE.
- In Fall 2006, obtained approval for the new course CS 420/CS 620 Human-Computer Interaction.
- In Fall 2009, obtained approval for the new course CS 320 Interaction Design.

- Between 2003 and 2011, involved numerous graduate and undergraduate students as co-authors on 17 journal articles and over 80 peer-reviewed conference papers.
- Between 2003 and 2011, based on students' work in CS 426 Senior Projects, 4 journal articles and 27 peer-reviewed conference papers were published at 16 international conferences, with a total of 57 undergraduate students among the authors.
- Involved in the organization of more than 90 international conferences held between 2003 and 2011.
- Program Chair or Co-Chair of 8 international conferences: IASSE-2003, San Francisco, CA; CATA-2005, Honolulu, HI; ENSYS-2006, Guadeloupe, French Caribbean; ICSEA-2006, Tahiti; ICSEA-2007, Nice, France; ACHI-2008, St. Luce, Martinique; SEDE-2009, Las Vegas, NV; and HCI-2010, Honolulu, HI.
- Member of Advisory Board for 5 international conferences: ENSYS-2006, Guadeloupe, French Caribbean; ICSEA-2006, Papeete, Tahiti; ICSEA-2007, Nice, France; ACHI-2008, Martinique, France; and ACHI-2009, Cancun, New Mexico.
- Reviewer for McGraw-Hill, Wiley & Sons, IGI Publishing, IEEE Journal of Engineering Education, Journal of Supercomputing, Transactions of South African Institute of Electrical Engineering (SAIEE), Journal of Science of Computer Programming, Journal of Software and Systems, The ACM Data Base for Advances in Information Systems, The Computer Security Journal, The Automated Software Engineering Journal and over 90 international conferences.
- CSE Department's academic liaison with Microsoft Corporation (2003-2004). Attended, by invitation, the Microsoft Faculty Research Summit in August 2004.
- Attended the MGE@MSA Doctoral Mentorship Institute (mentoring of graduate students from under-represented groups) in Las Vegas, NV, February 2006; Reno, NV, February 2007; and Reno, NV, November 2009.
- Recipient of UNR F. Donald Tibbitts Distinguished Teacher Award 2011.
- Recipient of the UNR Outstanding Undergraduate Research Mentor Award 2011.
- Runner-up, UNR F. Donald Tibbitts Distinguished Teacher Award 2010.
- Recipient of Nevada Center for Entrepreneurship & Technology 2009 Faculty Advisor Award.
- Recipient of UNR College of Engineering's Lemelson Award 2005.
- Recipient of three Best Paper awards at international conferences (2001, 2006, and 2008).
- Vice-chair of IEEE Northern Nevada Section (2006-2010).
- Primary delegate of the Northern Nevada section to the IEEE World Congress, Tampa, FL, 2005.
- Member of NSF review panels, 2007 and 2008.

09/1993 – 10/2001 *Lecturer and Research Assistant*

**Faculty of Computer Science, Dalhousie University, Halifax, Nova Scotia,
Canada**

- Research, design, and implementation in the area of software development methodology, with emphasis on object-oriented analysis and design of time-constrained systems. PhD thesis: "Combining Semi-formal and Formal Notations in Software Specification: An Approach to Modelling Time-Constrained Systems".
- Taught on contract basis the courses Software Engineering (focused on object-oriented analysis and design, and involving the use of Java, C++, and C), Software Development with Ada (Ada'95 and the Fusion object-oriented development method), Database Management Systems (data models and languages, database design, and system implementation techniques), and Computer Organization for Electrical Engineers (centred on the 80x86 assembly language). Responsible for course contents, preparation and presentation of lectures and tutorials, grading of exams, and supervision of teaching assistants.

- Worked on several projects related to my PhD thesis:
 - Design of a CASE tool entitled Harmony, an environment for multi-notation software specification.
 - Development of a case study, an elevator controller, that illustrates the combination of UML and Z++ in software specification;
 - Implementation in Java/XML of translation algorithms from UML to Z++.
- Participated in a study regarding the integration of voice recognition technology in advanced man-machine interfaces.

09/1984 – 09/1993 *Reader** (1990/09 - 1993/09), *Assistant Professor* (1985/09 - 1990/09), and *R&D Engineer* (1984/09 – 1985/09) **Faculty of Automatic Control and Computers, Polytechnic University of Bucharest, Romania**
 (*faculty position between Assistant Professor and Associate Professor: in Romanian, “Sef de Lucrari”)

- Instructor for the courses Microprocessor-based Process Control Systems, Software Engineering, Programming Languages, and Industrial Automation. The first course was centred on the 80x80 and 80x86 families of microprocessors, the second dealt with object-oriented and structured software development techniques, the third presented in detail the high level programming language Pascal, while the fourth described techniques and devices for automatic control.
- Conducted projects, supervised laboratory classes, and delivered tutorials for the courses Microprocessor-based Process Control Systems, Multi-processor Systems, Software Engineering, Programming Languages, Industrial Automation, and Fundamentals of Automatic Control.
- Supervised over twenty final year theses and conducted research and design work in the areas of microprocessor-based control and user-interface design for real-time systems. Topics included: “Algorithm and System for Automatic Camshaft Testing,” “Software Simulator for Steam and Hot Water Boilers,” and “User-Interfaces for Process Control Systems”.
- Involved in the research, design, and implementation of automatic testing systems for the automotive industry. Four versions of automated camshaft measurement machines were built for several car, truck and tractor manufacturing plants.
- Designed software tools for computer-aided education such as a software package for the computerized administration of tests and a graphical simulator of process control systems.
- Involved in the development and maintenance of various laboratory platforms, including a single-board microprocessor-based control system, a PID automatic controller, and a digital equipment for process control.
- Co-authored books and papers and delivered presentations at various conferences and symposia.
- Between 1985 and 1990 served as member of the Faculty’s committee for admissions.

INDUSTRY EXPERIENCE

01/2002 – 05/2002 *Senior Systems Consultant*
Alpas Solutions, Mississauga (Toronto), Ontario, Canada

- Involved in the development of on-line catalogues for commercial companies.

01/1992 – 07/1993 *Software Engineer*
Computer Quality Service Ltd., Bucharest, Romania

- Involved in the design and implementation of the following software products:

- A networked information management system for the Bucuresti-Berlin Ltd. Company, a Bucharest-based retailer. The system, consisting of a set of modules encompassing accounting, finance, asset management, marketing, and sale, was successfully used in their chain of stores.
- Communication protocol and software package for a DNC system controlling manufacturing cells. The package was delivered to a machine tools plant in Oradea, Romania and represented a valuable asset in their modernization process.
- A multilingual dictionary, a customizable, efficient software program capable of retrieving and displaying the meaning of a term or expression in several languages simultaneously.

01/1991 – 01/1992 *Software Engineer*

Alget Software Company, Bucharest, Romania

- Involved in the design and implementation of a scanner-based acquisition and analysis system for the evaluation of medical personnel's professional knowledge. Using image analysis techniques on multiple-choice questionnaires, the system determined the scores obtained by the candidates and maintained a database of results. This system was used by the Romanian Department of Health for assessing thousands of physicians seeking admission to post-graduate programs.
- Designed and implemented an order processing application for an automotive trade company. The system monitored the delivery of parts overseas and tracked their shipping via railway and sea from a Brasov, Romania truck plant to their international destinations.

03/1983 – 09/1984 *Control Systems Engineer*

Digital Equipment Maintenance Company (IIRUC), Bucharest, Romania

- Duties included on-site commissioning and maintenance of DNC systems.
- Involved in the development of the prototype of a DNC system, part of the NUMEROM series.

09/1982 – 03/1983 *Programmer*

SARO Computing Centre, Targoviste, Romania

- Participated in the maintenance of payroll and inventory programs for a machine tools manufacturing company that employed more than 10,000 people.

CERTIFICATION

- Sun Certified Programmer for Java™ 2 Platform, October 2001.

Advisor**PhD students advised who graduated (2)**

- Muhanna Muhanna. *RTSIS: Real-Time Supervisor Intervention Software for Scenario Modification in CAVE Applications*. PhD dissertation (August 2011)
- Sermsak Buntha. *CAVEMANDER: An Approach and Software Platform for Building Command & Control Applications in CAVE*. PhD dissertation (July 2009)

Master students advised who graduated (31) [3 co-advised; 26 theses and 5 professional papers]

- Victor Ivanov [co-advised with Dr. Fred Harris]. *VIVA: A Survey Management Toolkit*. MS in Computer Science (CS) thesis (August 2011).
- Bilal Nemutlu. *OptiETL*. MS in CS thesis (April 2011).
- Colin King. *JScaffold: A RAD Solution for Java MVC Applications*. MS in CS thesis (Dec. 2010).
- Sridhar Reddy Anumandla. *Modeling Oxytocin-Induced Neurorobotic Trust and Intent Recognition in Human-Robot Interaction*. MS in CS thesis (November 2010).
- Cory Fleming. *Mood Maestro: Therapeutic Software for Helping Alleviate Depression*. MS in CS thesis (November 2010).
- Jigar Patel. *EnduRan: A Web Application for Managing Racing Events*. MS in CS thesis (April 2010).
- Gino Essa [co-advised with Dr. Fred Harris]. *ACAT: ABET Course Assessment Tool*. MS in CS thesis (April 2010).
- Sathya Chandrasekar. *Web-based eBook Generator*. MS in CS thesis (August 2009).
- Kai Huang. *A Survey of Existing Climate Change Data Portals and A Prototype Design for the Nevada Climate Change Portal*. MS in CS professional paper. (August 2009).
- Hrishikesh Kulkarni. *Mobile Food Ordering System*. MS in CS thesis (January 2009).
- Sravanthi Yendluri. *Mobile Prescription*. MS in CS thesis (August 2008).
- Moynul Haque. *DCarS: Driving Rules Training Software for Handheld Devices*. MS in CS thesis (August 2008).
- Nic Herndon. *ATTITUDE: A Tidy Touchscreen Interface to a UML Development Environment*. MS in CS thesis (August 2008).
- Sagar Talekar. *WEBSTORM: Web-based Support Tool for the Organization of Requirements Modeling*. MS in Computer Engineering thesis (August 2008).
- S. Akinwale. *DuoTracker: Tool Support for Defect Data Collection & Analysis*. MS in Computer Engineering thesis (December 2007).
- Burcu Nemutlu. *PocketBaby: PDA Software for Monitoring Pregnancy Evolution*. MS in CS thesis (June 2007).
- Mike McMahon, Jr. *An Approach for Enhanced Management of Network Devices*. MS in CS thesis (May 2007).
- Juan Quiroz [co-advised with Dr. Sushil Louis]. *Interactively Evolving User Interfaces*. MS in CS thesis (May 2007).
- Muhanna Muhanna. *Exploration of Human-Computer Interaction Challenges in Designing Software for Mobile Devices*. MS in CS thesis (May 2007).
- Richard Larmore. *VHome 3D Web-Based Viewer for Residential Dwellings*. MS in CS thesis (December 2006).
- Mubeen Parkar. *A Web-Based Software Solution to Support CLASSE Assessment*. MS in CS thesis (December 2006).

- Tihomir Calic. *Exploration of Model Driven Architecture Capabilities via Comparative Utilization of MDA Tools*. MS in CS thesis (December 2006).
- Eric Fritzinger. *Tools for Creating Use Cases and Scenarios*. MS in CS thesis (June 2006).
- Sohei Okamoto. *WIDE: Web Interface Development Environment*. MS in CS thesis (Dec. 2005).
- Ning Hao, *Design Patterns Automation with Template Library*. Professional paper in CS (Feb 2005).
- Sermsak Buntha, *Simulator for Naval Surface Warfare Training*, MS in CS thesis (December 2004).
- John Jusayan, *Stratified Programming Integrated Development Environment*, MS in CS thesis (December 2004).
- Maryann Chandy, *Software Solutions for Assisting the Learning of Students with Disabilities*, Professional paper in CS (October 2004).
- Gigi Shum, *Combining Semi-Formal and Formal Notations in User Interface Specification*, Professional paper in CS (December 2003).
- Carol Freinkel, *An Approach for Combining UML and TLA+ in Software Specification*, MS in CS thesis (November 2003).
- Manish Nilawar, *A UML-based Approach for Testing Web Applications*, Professional paper in CS (July 2003).

PhD students currently advised (6)

- Sohei Okamoto. *Human-Computer Interaction*. Expected graduation: December 2011.
- Jigar Patel. *Software Engineering*. Expected graduation August 2012.
- Saul Reed. *Software Engineering*. Expected graduation May 2013.
- Ivan Gibbs. *Software Engineering*. Expected graduation: May 2013.
- Qiping Yan. *Software Engineering*. Expected graduation: August 2013.
- Alex Redei. *Human-Computer Interaction*. Expected graduation: December 2013.

Master students currently advised (3) [1 of them co-advised with Dr. Fred Harris]

- Andy Dittrich. Area: *Software Engineering*. Expected graduation: May 2012.
- Aarti Dhone [co-advised with Dr. F. Harris]. Area: *Software Eng*. Expected graduation: May 2012.
- Zack Norcross. Area: *Human-Computer Interaction*. Expected graduation: August 2012.

Examination committees

Committees - PhD students who graduated (12)

- Navid Fallah (2011). PhD in Computer Science and Engineering. *Mixed Reality Indoor Navigation System for the Visually Impaired*. Advisor: Dr. Eelke Folmer.
- Mukesh Motwani (2011). PhD in Computer Science and Engineering. *Third Generation Watermarking: Applied Computational Intelligence Techniques*. Advisor: Dr. Fred Harris.
- Suat Mercan (2011). PhD in Computer Science and Engineering. *Virtual Directional Multicast for Overlay Networks*. Advisor: Dr. Murat Yuksel.
- Laurence Jayet-Bray (2010). PhD in Biomedical Engineering. *A Circuit-Level Model of Hippocampal, Entorhinal and Prefrontal Dynamics Underlying Rodent Maze Navigational Learning*. Advisors: Dr. Fred Harris and Dr. Phil Goodman.
- Ashkan Voosoghi (2010). PhD in Civil Engineering. *Post-Earthquake Evaluation and Emergency Repair of Earthquake-Damaged RC Bridge Columns Using CFRP Materials*. Advisor: Dr. S. Saiidi.

- Juan Quiroz (2010). PhD in Computer Science and Engineering. *Creative Design Using Collaborative Interactive Genetic Algorithms*. Advisor: Dr. Sushil Louis.
- Rakhi Motwani (2010). PhD in Computer Science and Engineering. *A Voice-Based Biometric Watermarking Scheme for Digital Rights Management of 3D Mesh Models*. Advisor: Dr. Fred Harris.
- Bei Yuan (2009). PhD in Computer Science and Engineering. *Towards Generalized Accessibility of Video Games for the Visually Impaired*. Advisors: Dr. Eelke Folmer and Dr. Fred Harris.
- Anil Shankar (2008). PhD in Computer Science and Engineering. *SYCOPHANT: A Context Based Generalized User Modeling Framework for Desktop Applications*. Advisor: Dr. Sushil Louis.
- Sara Nasser (2008). PhD in Computer Science and Engineering. *Fuzzy Sequence Classification and Assembly of Environmental Genomes*. Advisor: Dr. Fred Harris.
- Chris Miles (2007). PhD in Computer Science and Engineering. *Co-Evolving Real-Time Strategy Game Players*. Advisor: Dr. Sushil Louis.
- Beifang Yi (2006). PhD in Computer Science and Engineering. *A Framework for a Sign Language Interfacing System*. Advisor: Dr. Fred Harris.

Committees - Master students who graduated (39)

- Bugra Oktay (2011); Dan Ramos (2011); Quan Zou (2011); Cody White (2011); Scott Cozen (2011);
- Hema Narayanan (2010); Ramesh Mulupuri (2010); Joe Mahsman (2010);
- Manjari Sapre (2009); Devrin Lee (2008); Roger Hoang (2008); Johnathan Kendler (2008);
- David Brown (2008); Chris Franklin (2008); Jeff Wallace (2008); Radha Kuna (2008);
- Leandro Basallo (2008); Michael Smith (2008); Jesse Phillips (2008); John Kenyon (2008);
- Brad Towle (2007); William Brandstetter (2007); Michael Dye (2007); Janet Snape (2007);
- Saul Reed (2007); Phani Dogiparthi (2007); Michael Penick (2007); Satish Badepalli (2005);
- Joe Jaquish (2005); Jeff Stuart (2005); Marcel Levy (2005); Rajasekhar Yakkali (2005);
- Latthaporn Bunyaplanan (2005); Bei Yuan (2004); Laurel Jones (2004); James Arseneau (2004);
- Brian Westphal (2004); Meenakshi Iyer (2004); Kedar Deshpande (2003); Xingyi Li (2003).

Committees – External Examiner for PhD dissertations by students from other universities (2)

- 1 PhD candidate from ***** University, Canada [expected defense: November 2011]
- 1 PhD candidate from ***** University, Australia [expected defense: TBD]

Committees - PhD students currently in their program of study at UNR (4)

- Tony Morelli
- Jon Fox
- Jonathan Kendler
- Brad Timble

Committees - Master students currently in their program of study at UNR (1)

- Joe Vesco

GRANT APPLICATIONS FUNDED 2003-2011

[in reverse temporal order; 53 in total: 19 as PI, 10 as Co-PI, and 24 as advisor/mentor]

Note: *Educational grants are marked with a * [8]; Student awards are marked with + [24]*

- [53] *Bally Technologies Sponsored Student Project in Computer Science and Engineering*. Role: Principal Investigator (**PI**). Bally Tech., Reno, NV. Period: April 15 – July 31, 2011. **\$10,300**.
- [52] *Western Tri-State Innovative Working Group (IWG): CyberScience Scenarios for Focused CI Developments*. Co-PI with Karl Benedict, University of New Mexico (PI) and Dan Ames, Idaho State University (co-PI). NSF EPSCoR. August 1 – December 31, 2010. **\$12,700**.
- [51] *Integrated Environmental Modeling Software Systems Innovative Working Group*. **Co-PI** with Dan Ames (PI, Idaho State University) and Karl Benedict (co-PI, University of New Mexico). Western Tri-State Consortium Innovative Working Group proposal solicitation. January 10, 2010 – March 25, 2010, **\$9,000**.
- [50] *Bally Technologies Sponsored Student Project in Computer Science and Engineering*. **Co-PI**, with Eelke Folmer (PI). Bally Technologies, Reno, NV. Period: Jan. 31 – June 1, 2010. **\$9,900**.
- [49]+ *Adaptation of the Nevada Climate Change Data Portal Interface to Small Screen Mobile Devices*. **Mentor** for student Steve Komarov (co-advised with Donica Mensing). NSF EPSCoR Undergrad Research Opportunity Program (UROP). Dec. 1 2010 - May 31, 2011. **\$4,300**.
- [48] *Cyberinfrastructure Development for the Western Consortium of Idaho, Nevada, and New Mexico*. **UNR co-PI**, with Gayle Dana (Nevada PI), Fred Harris (UNR PI), Darko Koracin (DRI PI), and Kent Crippen (UNLV PI). NSF EPSCoR RII Track II. Period: September 15, 2009 – August 31, 2012. Total: **\$9,000,000**. Nevada part: **\$3,000,000**. UNR/COE/CSE part: **\$831,000** (includes \$554,000 from NSF and \$277,000 NSHE match).
- [47] *Large-Scale Biologically Realistic Models of Brain Dynamics Applied to Intelligent Robotic Decision Making*. **Co-PI** with Phil Goodman (PI) and Fred Harris (co-PI). Office of Naval Research. ONR Program on Computational Neuroscience, Brain Machine Interface, and Human-Robot Interaction. October 1, 2009 – September 30, 2012. **\$827,400**.
- [46] *Losing the Lake: Promoting Sustainability Awareness through Educational Computer Simulations of Lake Mead Water Levels and Water Supply to Las Vegas Valley*. **Co-PI**, with Michael Nussbaum (PI, UNLV), Gale Sinatra (co-PI UNLV), Kent Crippen (co-PI, UNLV) and Fred Harris (co-PI, UNR). NSF EPSCoR/NSHE Climate Change Interdisciplinary Science Teams proposal solicitation. Period: September 1, 2009 – August 31, 2011. **199,300**.
- [45] *Bally Technologies Sponsored Student Project in Computer Science and Engineering*. **PI**, with Eelke Folmer (co-PI), and Murat Yuksel (co-PI). Bally Technologies, Reno, NV. Period: January 31, 2009 – June 15, 2009. **\$12,380**.
- [44] *PC Doctor Sponsored Student Project in Computer Science and Engineering*. **PI**. PC Doctor, Reno, NV. Period: January 1, 2009 – Sep. 15, 2009. **\$10,320**.
- [43]+ *Muse Interactive*. **Advisor** for the group of students: Ben Brown, Wes Lee, and Josh Greenspan. Nevada Governor's Cup – qualified for finals (one of top 6 undergraduate teams out of 25). April 2009. **\$1,500**.
- [42]+ *Visualization of Transect Data*. **Advisor** with Franco Biondi (co-advisor) for student Joel Larsen. Nevada NSF EPSCoR RII-Track II Undergrad Research Awards. Period January 1, 2010 – May 31, 2010. **\$4,300**.
- [41]+ *iPhone Teacher's Companion*. **Mentor** for student Steve Komarov. UNR Honors Undergraduate Research Awards (HURA). January 1 - May 31 2010. **\$2,000**.
- [40]+ *Research on a New Interaction Paradigm for Personal Computers*. **Mentor** for student Valjean Clark. UNR Honors Undergraduate Research Award (HURA). January 1 - May 31 2010. **\$2,000**.

- [39] *PC-sponsored Senior Project in Computer Science*. **PI**. PC Doctor, Inc., Reno, NV. Period Dec. 1, 2008 – September 15, 2009. **\$10,380**.
- [38]+ *Student's Aid: A Touchscreen Design*. **Mentor** for student Ben Seelbinder. UNR Honors Undergraduate Research Award (HURA). Period Dec. 1, 2008 – May 15, 2009. **\$2,000**.
- [37] *Nevada Infrastructure for Climate Change Science, Education, and Outreach*. NSF EPSCoR, RII. Role: **UNR Co-PI, leader cyber group** (the group's budget is about \$2,100,000), with PI Gayle Dana and co-PIs Nick Lancaster, Tom Piechota, and Scott Mensing. Period: Sept. 1, 2008 – Aug. 31, 2013. Funding: **\$15,000,000** from NSF plus about **\$6,700,000** from the state of Nevada.
- [36]+ *Wolfpack Works' Biologue*. **Advisor** with co-advisors Leah Skladany and Gary Valiere for students Nhan Diep, Del Jackson, Scotty Jones, and Tyler Kayser. Nevada Governor's Business Cup – Second Prize. April 2008. **\$10,000**.
- [35]+ *Biologue: Your Life's Voice*. **Advisor** for students Nhan Diep, Del Jackson, Scotty Jones, and Tyler Kayser. Co-Advisors: Leah Skladany and Gary Valiere. NSF EPSCoR Cognitive Information Processing – Student Entrepreneurship competition. Period: Feb. 1 – July 31, 2008. **\$5,000**.
- [34]+ *STRAFE: Strategic Turn-based Realistic Action in a First-person Environment*. **Advisor** for students Joseph Mahsman, Matt Sgambati, Roy Hemenway, and Joey Bennett. Co-advisor: Fred Harris. NSF EPSCoR CIP – Student Entrepreneurship competition. Period: February 1 – July 31, 2008. **\$5,000**.
- [33] *Assisting Disadvantaged Web Users with Real-Time Solutions*. **PI**. International Activities Grant (IAG), UNR. Period April 1, 2008 – June 30, 2009. **\$1,500**.
- [32] *PC-Doctor Sponsored Student Projects in Computer Science and Engineering*. **PI**. Period October 22, 2007 – January 31, 2008. Pc-Doctor, Reno, NV. **\$9,590**.
- [31]+ *TouchTabs: A New Solution for Guitar Music Composition Using Touch Screens*. **Mentor** for student Matt Whipple. Nevada EPSCoR UG Research Award. Period: Nov. 15, 2007 – May 15, 2008. **\$4,310**.
- [30]+ *Smartphone-based Researcher's Companion Software (RCS)*. **Mentor** for student Brian Tackitt. Nevada EPSCoR Undergraduate Research Award. Period Nov. 15, 2007 – May 15 2008. **\$4,310**.
- [29] *Exploring Planetary Surfaces: Earth, Moon and Mars*. **Co-PI**, with Chris Fritsen (PI), Wendy Calvin (UNR PI) and 8 other Co-PIs. NASA EPSCoR. Period: Sept. 1, 2007- July 31, 2010. **\$1,500,000** (includes NSHE match \$750,000).
- [28] *Exploration of Research Directions in Software and Systems Quality Assurance*. **PI**, with co-PIs Dr. E. Folmer, Dr. D. Egbert and Dr. B. D. Bryant. Bally Technologies, Reno, NV, USA. Period: June 1, 2007- March 15, 2008. **\$112,890** (includes NSHE ARI match \$50,000).
- [27]* *Advanced Computer Technology for Senior Projects in Computer Science and Engineering*. **PI**. Student Technology Fee (STF) UNR. Period: May 1, 2007 – June 30, 2007. **\$15,780**.
- [26]* *An Advanced Hands-On Learning Experience in Computer Science and Engineering*. ¹⁰, with Monica Nicolescu (PI) and Mircea Nicolescu. Student Technology Fee (STF) UNR. Period: May 1, 2007 – June 30, 2007. **\$11,580**.
- [25] *Earned Schedule Outcome Estimation Tool*. **PI**. Quadrant One, Inc., Arlington. VA. Period: November 1, 2006 – December 15, 2007. **\$14,840**.
- [24]* *Touchscreens and Handheld Devices for CSE Senior Projects and Human Computer Interaction Courses*. **PI**. Instructional Enhancement Grant (IEG) UNR. Period: July 2007– May 2008. **\$2,630**.
- [23]+ *Orchestra Collaboration Software*. **Mentor** for student Raymond Lee. General Undergraduate Research Award (GURA) UNR. Period: June 1, 2007 – May 31, 2008. **\$1,500**.
- [22]+ *Samsara Inc.'s SMORTS: Space-based Massively Online Real-Time Strategy Game*. **Co-advisor** with Dr. Sushil Louis (main advisor) and Dr. Rahul Bhargava for students David Carr, Mark Harmer, Ben Menesini, Austin Stanhope. Nevada Governor's Business Cup – Second Prize. April 2007. **\$10,000**.
- [21]+ *Role Coll: A Collaborative Software System for Music Annotations*. **Advisor** for students Erik Hanchett, Harold De Armas, Zack Norcross and Raymond Lee. NSF EPSCoR Cognitive Information Processing–Student Entrepreneurship competition. Period: Jan–July 2007. **\$5,000**.

- [20]+ *SMORTS: Space-based Massively Online Real-Time Strategy Game*. **Co-advisor** with S. Louis and R. Bhargava for students David Carr, Mark Harmer, Ben Menesini, Austin Stanhope. NSF EPSCoR CIP – Student Entrepreneurship competition. Period: Jan. 1– July 31, 2007. **\$5,000**.
- [19]+ *MIDAS: My Interactive Desk Assistant*. **Advisor** for students Christian Fey, Cirel Menor, and Ayako Okamoto. NSF EPSCoR Cognitive Information Processing – Student Entrepreneurship Competition. Period: January 1, 2007 – July 31, 2007. **\$5,000**.
- [18]+ *Therapeutic Software: Human-Computer Interaction Challenges and Solutions*. **Mentor** for student Cory Fleming. Nevada EPSCoR UG Research Award. Period: Nov. 1, 2006 – May 31, 2007. **\$4,790**.
- [17]+ *goSmart: A Home Automation System*. **Mentor** for student James Motta. General Undergraduate Research Award (GURA) UNR. Period: May 1, 2006 – April 30, 2007. **\$1,200**.
- [16]+ *Opposition: A Video Game, a Contest between Technology and Numbers*. **Advisor** for students Andy Costello and Ian Lermusiaux. Award for qualification to the final phase of Nevada’s D. W. Reynolds Governor’s Cup Competition. Nevada Center for Entrepreneurship (NCET). April 2006. **\$1,000**.
- [15]* *UNR Software Acquisition Grant: Mac OS Analysis & Design Software*. **PI**. 2005/09. UNR CSAF. Period: September 1, 2005 – August 31, 2006. **\$2,000**.
- [14] *Project IRIS: Project Maps Decomposition Colorizer*. **PI**. Quadrant One, Inc., Arlington, VA. Period: July 15, 2005 – October 30, 2005. **\$6,000**.
- [13] *Combining Learning and Human Modeling for Virtual at Sea Training*. **Co-PI**, with Sushil Louis (PI) and Monica Nicolescu (Co-PI). DEPSCoR – Office of Naval Research. Period: June 1, 2005 – May 31, 2008. Funded \$416,600 by NSF with Nevada-UNR match \$210,000. Total **\$626,600**.
- [12] *Project CROWN VISION for NISTP at USF (Managing Large-Scale Software Systems)*. **PI**. USF (University of South Florida)/SPAWAR. Period: Oct. 1, 2005 – September 30, 2006. **\$50,000**.
- [11]+ *Software Project Progress Assessment and Prediction via Metrics Analysis and Visualization*. **Mentor** for undergraduate student Namit Chawla. UNR, Undergraduate Research Award. Period: May 1, 2005 – April 30, 2006. **\$1,000**.
- [10]* *Software Engineering Lab Development*. **PI**. Student Technology Fee Distribution Grant, UNR. Period: May 1, 2004 - December 31, 2004. \$7,200. Additional funds received from the Office of the Provost, UNR: \$14,000. Total: **\$21,200**.
- [9]+ *Virtual University of Nevada, Reno Campus/Virtual City of Reno*. **Mentor** for undergraduate student Robert Larmore. UNR, Undergraduate Research Award. Period: May 1, 2004 – April 30, 2005. **\$1,000**.
- [8]+ *Virtual Environment to Support Collaborative Software Design*. **Mentor** for undergraduate student Brent Devaney. UNR, Undergraduate Research Award. Period: May 1, 2004 – April 30, 2005. **\$1,000**.
- [7]+ *Automated Futures Trading Systems*. **Mentor** for undergraduate student Robert Sandstrom. UNR, Undergraduate Research Award. Period: May 1, 2004 – April 31, 2005. **\$1,000**.
- [6] *Software Solutions for Assisting the Learning of Students with Disabilities*. **PI**. International Activities Grant (IAG), UNR. Period: May 1, 2004 - March 15, 2005. **\$3,000**.
- [5]* *Microsoft Software and Documentation Grant*. **PI**. About 40 books and software kits received from Microsoft Corporation, March 2004, **\$3,200**.
- [4]* *Software Acquisition Funding*. **PI**. UNR, January 2004, funding for buying Director MX toolset, **\$500**.
- [3]+ *Design of a Virtual Environment for the Exploration of Cognitive Aspects of Learning*. **Mentor** for undergraduate student Adam Olenderski. UNR, Undergraduate Research Award. Period: December 1, 2003 – June 1, 2004. **\$1,000**.
- [2] *Harmony: An Environment for Multi-Notational Software Specification*. **PI**. Junior Faculty Research Grant, UNR. Period: July 1, 2003 – June 30, 2005. **\$15,000**.
- [1]* *Verity: A Learning Companion and Self-Assessment Tool*. **PI**. Instructional Enhancement Grant, UNR. Period: January 1, 2003 – June 30, 2003. **\$2,300**.

AWARDS

- UNR Donald Tibbitts Distinguished Teacher of the Year Award 2011.
- UNR Outstanding Undergraduate Research Faculty Mentor Award 2011.
- UNLV College of Education Collaboration Group Award, as part of a collaborative UNLV-UNR project team (of about 10 people) led by Dr. Michael Nussbaum, UNLV, 2010.
- Runner-up, UNR Donald Tibbitts Distinguished Teacher Award 2010.
- Faculty Advisor Award 2009, NV Center for Entrepreneurship & Technology (NCET), April 2009.
- Best Paper Award, the 21st Intl. Conf. on Computers and Their Applications in Industry and Engineering (CAINE-2008) Honolulu, HI, 2008. Paper “A Recursive Hyperspheric Classification Algorithm” by Saul Reed, Carl Looney, and Sergiu Dascalu.
- Certificate of Recognition and Appreciation for services and contributions to the organization of the 5th IEEE Intl. Conference on Information Technology: New Generations (ITNG-2008), Las Vegas, Nevada, Apr. 2008.
- Certificate of Recognition and Appreciation for services and contributions to the organization of the 4th IEEE Intl. Conference on Information Technology: New Generations (ITNG-2007), Las Vegas, Nevada, Apr. 2007.
- Best Paper Award, the 21st Intl. Conf. on Computers and Their Applications (CATA-2006) Seattle, 2006. Paper “vHand: A Human Hand Simulation System” by Beifang Yi, F. Harris, and S. Dascalu.
- Recognition and Appreciation Award for contribution to the conference’s organization, 18th Intl. Conf. on Computers Applications in Industry and Engineering (CAINE-2005), Honolulu, HI, November, 2005.
- Lemelson Award for innovation in teaching and research, College of Engineering, UNR, April 2005.
- Certificate of contribution to ITE-2005 Symposium (Information Technology and Entrepreneurship), Langston University, Oklahoma City, OK, April 2005.
- Achievement Award for research contributions to the field, International Conference on Software Engineering Research and Practice (SERP-2004), Las Vegas, NV, June 2004.
- Best Paper of session “Simulation in Training & Education,” EISTA’2004, Orlando, FL, July 2004.
- Best Paper of session “Information Systems Development,” the 7th World Multi-Conference on Systemics, Cybernetics and Informatics (SCI-2003), Orlando, Florida, July 2003.
- Achievement Award for research contributions to the field, International Conference on Software Engineering Research and Practice (SERP-2003), Las Vegas, NV, June 2003.
- Best Paper Award at the 11th Workshop for Information Technologies and Systems (WITS 2001), New Orleans, Louisiana, December 2001. Paper: “Harmony: An Environment for the Combined Use of UML and Z++ in Software Specification” by Sergiu Dascalu and Peter Hitchcock.
- Scholarship for PhD studies, School of Computer Science, Technical University of Nova Scotia, Halifax, Canada, 1993/1994 to 1996/1997.
- Bruce & Dorothy Rosetti Award, Technical Univ. of Nova Scotia, Canada, 1994/95 and 1995/96.
- Honorary mention for the presentation “Analog Input Processor,” Students’ Scientific Communications Session, Polytechnic Institute of Bucharest, Romania, 1981.
- Honorary mention for original solution to one of the problems of the final phase of the national contest for high school students Olympiad of Mathematics, Brasov, Romania, 1976.

Program Chair/Co-Chair

- HCI-2010, Maui, HI, August 2010 (Program Co-Chair)
- SEDE-2009, Las Vegas, Nevada, June 2009 (Program Co-Chair)
- ACHI-2008, St. Luce, Martinique, French Caribbean, February 2008 (Program Co-Chair and Conference Advisory Board Member)
- ICSEA-2007, Cap Esterel, Nice, France, August 2007 (Program Co-Chair and Conference Advisory Board Member)
- ICSEA-2006, Tahiti, French Polynesia, Oct. 2006 (Program Co-Chair and Conference Advisory Board Member)
- ICIW-2006/ENSYS-2006, Guadeloupe, French Caribbean, February 2006 (Program Co-Chair)
- CAINE-2005, Honolulu, HI, November 2005 (Program Chair)
- IASSE-2003, San Francisco, CA, July 2003 (Program Co-Chair)

Program Committee Member

- HCI-2012, Baltimore, MD, May 2012
- CSEDU-2012, Porto, Portugal, April 2012
- CAINE-2011, Honolulu, Hawaii, November 2011
- SBLP-2011, Sao Paulo, Brazil, September 2011
- ITA-2011, Wrexham, Wales, September 2011
- rBPM-2011 at BPM-2011, Clermont-Ferrand, France, September 2011
- VLC-2011 at DMS-2011, Florence, Italy, August 2011
- IIMSS-2011, Athens, Greece, July 2011
- ICSoft-2011, Sevilla, Spain, July 2011
- IWSSA-2011 at CAiSE-2011, London, UK, June 2011
- SEDE-2011, Las Vegas, NV, June 2011
- CTS-2011, Philadelphia, PA, May 2011
- HCI-2011, Washington, DC, May 2011
- CSEDU-2011, Noordwijkerhout, The Netherlands, May 2011
- ICCIT-2011, Aqaba, Jordan, March 2011
- SPLASH-2010 (formerly OOPSLA), Reno, NV, October 2010
- SBLP-2010, Salvador, Bahia, Brazil, September 2010
- VLC-2010 at DMS-2010, Oak Brook, IL, October 2010
- rBPM-2010 at BPM-2010, Hoboken, NJ, September 2010
- HCI-2010 Maui, HI, August 2010
- IIMSS-2010, Baltimore, MD, July 2010
- ICSoft-2010, Athens, Greece, July 2010
- SEDE-2010, San Francisco, CA, 2010
- CTS-2010, Chicago, IL, May 2010
- CSEDU-2010, Valencia, Spain, April 2010
- IWSSA-2009 at OTM-2009, Vilamoura, Portugal, November 2009
- HCI-2009, St. Thomas, Virgin Islands, November 2009
- ADVCOM-2009, Sliema, Malta, October 2009
- ICSEA-2009, Porto, Portugal, September 2009
- VLE-SE-2009 at VLC-2009/DMS-2009, San Francisco, CA, September 2009
- ITA-2009, Wrexham, Wales, UK, September 2009
- SBLP-2009, Gramado, Rio Grande do Sul, Brazil, August 2009

- ICSoft-2009, Sofia, Bulgaria, July 2009
- HCI KbE 2009 at IIMS-2009, Mogliano Veneto, Italy, July 2009
- SNPD-2009, Daegu, Korea, May 2009
- IEEE CTS-2009, Baltimore, MD, May 2009
- CATA-2009, New Orleans, LA, April 2009
- ITNG-2009, Las Vegas, NV, April 2009
- CATA-2009, New Orleans, LA, April 2009
- CSEDU-2009 Lisbon, Portugal, March 2009
- ACHI-2009, Cancun, Mexico, February 2009
- IWSSA-2008 at OTM-2008, Monterrey, Mexico, November 2008
- CAINE-2008, Honolulu, HI, November 2008
- ICSEA-2008, Sliema, Malta, October 2008
- IEEE WPD-2008 at WiMob-2008, Avignon, France, 2008
- WAC-2008, Waikoloa, HI, September 2008
- SNPD-2008, Phuket, Thailand, August 2008
- SBLP-2008, Fortaleza, Brazil, August 2008
- SEDE-2008, Los Angeles, CA, June 2008
- AQTR-2008, Cluj-Napoca, Romania, May 2008
- IEEE CTS-2008, Irving, CA, May 2008
- IEEE ITNG-2008, Las Vegas, NV, April 2008
- IASTED HCI-2008, Innsbruck, Austria, March 2008
- CAINE-2007, San Francisco, CA, November 2007
- MOBCOPS-2007, New York, NY, November 2007
- ADVCOM-2007, Papeete, Tahiti, November 2007
- PLAC-2007 Workshop at OOPSLA-2007, Montreal, Canada, October 2007
- ITA-2007, Wrexham, Wales, UK, September 2007
- ICSEA-2007, Cap Esterel, France, August 2007
- SEDE-2007, Las Vegas, NV, July 2007
- IEEE SNPD-2007, Beijing, China, July 2007
- HPCS-2007, Prague, Czech Republic, June 2007
- SBLP-2007, Natal, Rio Grande del Norte, Brazil, May 2007
- CTS-2007, Orlando, FL, May 2007
- IEEE ITNG-2007, Las Vegas, NV, April 2007
- CATA-2007, Honolulu, Hawaii, March 2007
- IASTED HCI-2007, Grenoble, France, March 2007
- ICCGI-2007, Guadeloupe, French Caribbean, March 2007
- CAINE-2006, Las Vegas, NV, November 2006
- IEEE ICEBE-2006, Shanghai, China, October 2006
- SPLC-2006, APLE-2006 Workshop, SEI-Carnegie Mellon, Baltimore, MD, August 2006
- SEDE-2006, Los Angeles, CA, July 2006
- SBLP-2006, Rio de Janeiro, Brazil, May 2006
- CTS-2006, Las Vegas, NV, May 2006
- IWSSA-2006, Las Vegas, NV, May 2006
- CATA-2006, Seattle, WA, March 2006
- AICT-2006/SAPIR-2006, Guadeloupe, French Polynesia, February 2006
- CCSP-2005, Kuala Lumpur, Malaysia, November 2005
- IEEE IRI-2005, Las Vegas, NV, August 2005
- SAPIR-2005, Lisbon, Portugal, July 2005
- IASSE-2005, Toronto, Canada, July 2005
- SERP-2005, Las Vegas, NV, June 2005

- IWSSA-2005, Las Vegas, NV, June 2005
- CTS-2005, St. Louis, MI, May 2005
- SBLP-2005, Recife, Brazil, May 2005
- ITE-2005, Oklahoma City, OK, April 2005
- CATA-2005, New Orleans, LA, March 2005
- CSITeA-2004, Cairo, Egypt, December 2004
- CAINE-2004, Orlando, FL, November 2004
- SAPIR 2004, Fortaleza, Brazil, August 2004
- IASSE-2004, Nice, France, July 2004
- SERP-2004, Las Vegas, NV, June 2004
- SBLP-2004, Niteroi, Rio de Janeiro, Brazil, May 2004
- CATA-2004, Seattle, WA, March 2004
- SERP-2003, Las Vegas, NV, June 2003

Session Organizer/Chair

- ICSOFT-2011, Sevilla, Spain, July 2011.
- VLC-2010, Session on Visual Languages and Environments for Software Engineering, co-Chair with Kendra Cooper (University of Texas at Dallas), Oak Brook, IL, October 2010
- Session on Cyberinfrastructure, Nevada Climate Change Conference, Las Vegas, NV, Feb. 2010.
- VLC-2009, Session on Visual Languages and Environments for Software Engineering, co-Chair with Kendra Cooper (University of Texas at Dallas), San Francisco, CA, September 2009
- IEEE ITNG-2009, Las Vegas, NV, April 2009
- IEEE ITNG-2008, Las Vegas, NV, April 2008 (session/track co-chair)
- ACHI-2008, St. Luce, Martinique, French Caribbean, February 2008 (session chair)
- ICSOFT-2007, Barcelona, Spain, July 2007 (session chair, 2 sessions)
- SEDE-2007, Las Vegas, NV, July 2007 (session chair, 1 session)
- IEEE ITNG-2007, Las Vegas, NV, April 2007 (session co-chair)
- ICSEA-2006, Papeete, Tahiti, French Polynesia, October 2006 (session chair, 2 sessions)
- VLC-2005, Banff, Alberta, Canada, September 2005 (session chair, 1 session)
- SERP-2005, Las Vegas, NV, June 2005 (session co-organizer & chair)
- CTS-2005, St. Louis, MO, May 2005 (session chair, 1 session)
- IEEE ITE-2005, Oklahoma City, OK, April 2005 (session chair, 1 session)
- CSITeA-2004, Cairo, Egypt, December 2004 (session co-organizer & chair)
- SERP-2004, Las Vegas, NV, June 2004 (session co-organizer & chair)
- CATA-2004, Seattle, WA, March 2004 (chair, 2 sessions)
- SERP-2003, Las Vegas, NV, June 2003 (session organizer & chair)
- SCI-2003, Orlando, FL, July 2004 (session chair, 2 sessions)
- CATA-2003, Honolulu, HI, March 2004 (session chair, 2 sessions)

Associate Editor

- Proceedings of SEDE-2009, Las Vegas, NV, June 2009
- Proceedings of ITNG-2008, Las Vegas, NV, April 2008 (IEEE Computer Society Press)
- Proceedings of ACHI-2008, St. Luce, Martinique, 2008 (IEEE Computer Society Press)
- Proceedings of ICSEA-2007, Cap Esterel, Nice, France, 2007 (IEEE Computer Society Press)
- Proceedings of ITNG-2007, Las Vegas, NV, April 2007 (IEEE Computer Society Press)
- Proceedings of CAINE-2005, Honolulu, HI, November 2005
- Proceedings of SERP-2005, Las Vegas, NV, June 2005
- Proceedings of SERP-2004, Las Vegas, NV, June 2004

- Proceedings of IASSE-2003, San Francisco, CA, July 2003
- Proceedings of SERP-2003, Las Vegas, NV, June 2003

Book Reviews

- Alejandro Pena-Ayala (editor), *Intelligent and Adaptive Educational-Learning Systems*, Springer, 2012 (reviewed 1 chapter in 2011).
- Benjamin Wah (editor), *Encyclopedia of Computer Science and Engineering*, Wiley & Sons, 2008 (reviewed 1 chapter).
- Pierre Tiako (ed.), *Designing Software-Intensive Systems*, IGI Global, 2007 (reviewed 2 chapters).
- Roger Pressman, *Software Engineering: A Practitioner's Approach*, 6th Edition, McGraw-Hill, 2004 (reviewed the entire book).

Journal Article Reviews

- Automated Software Engineering Journal, 1 review (2011).
- ACM Data Base for Advances in Information Systems, 8 reviews (2007, 2008, 2009, 2010, 2011).
- Journal of Science of Computer Programming, Elsevier, 6 reviews (2005, 2006, 2009, 2010, 2011)
- Journal of Systems and Software, 4 reviews (2007, 2010)
- Computer Security Journal, 1 review (2008).
- Journal of the Information Technology Research, 1 review (2006)
- Encyclopedia of Medical Devices and Instrumentation, 1 review (2005)
- Journal of Supercomputing, 1 review (2004)
- Transactions of the South African Institute of Electrical Engineers (SAIEE), 1 review (2004)
- IEEE Transactions on Engineering Education, 1 review (2002)

Conference Paper Reviews

SBLP-2011: 3 reviews; rBPM-2011: 2 reviews; IWSSA-2011: 2 reviews; ICSOFT-2011: 2 reviews; ITA-2011: 1 review; VLC-2011: 1 review; CTS-2011: 3 reviews; HCI-2011: 3 reviews; ICCIT-2011: 2 reviews; CSEDU-2011: 1 review; VLC-2010: 2 reviews; CAINE-2010: 2 reviews; SBLP-2010: 3 reviews; rBPM-2010: 3 reviews; SPLASH-2010: 4 reviews; SEDE-2010: 1 review; ICSOFT-2010: 2 reviews; CTS-2010: 1 review; CSEDU-2010: 3 reviews; CATA-2009: 2 reviews; CSEDU-2009: 4 reviews; CTS-2009: 2 reviews; SEDE-2009: 10 reviews; ICSOFT-2009: 3 reviews; SBLP-2009: 3 reviews; VLC-2009: 2 reviews; IWSSA-2009: 3 reviews; HCI-2009: 2 reviews; ITNG-2009: 4 reviews; ACHI-2009: 1 review; IWSSA-2008 at OTM-2008, Monterrey, Mexico, November 2008, 2 reviews; CAINE-2008, Honolulu, HI, November 2008, 7 reviews; ICSEA-2008, Sliema, Malta, October 2008, 1 review; SBLP-2008, Fortaleza, Brazil, August 2008, 4 reviews; ICSOFT-2008, Porto, Portugal, July 2008, 4 reviews; SEDE-2008, Los Angeles, CA, July 2008, 3 reviews; AQTR-2008, Cluj-Napoca, Romania, May 2008, 4 reviews; SNPD-2008, Phuket, Thailand, August 2008, 2 reviews; IEEE CTS-2008, Irvine, CA, May 2008, 5 reviews; ITNG-2008, Las Vegas, NV, April 2008, 5 reviews; IASTED HCI-2008, Innsbruck, Austria, March 2008, 3 reviews; ADVCOM-2007, Papeete, Tahiti, November 2007, 1 review; ITA-2007, Wrexham, Wales, September 2007, 3 reviews; IEEE SNPD-2007, Beijing, China, July 2007, 3 reviews; SEDE-2007, Las Vegas, NV, July 2007, 2 reviews; IWSSA-2007, Las Vegas, NV, June 2007, 2 reviews; HPCS-2007, Prague, Czech Republic, June 2007, 2 reviews; ACM ITiCSE-2007, Dundee, Scotland, June 2007, 2 reviews; AICT-2007, Mauritius Islands, May 2007, 1 review; IEEE EIT-2007, Chicago, IL, May 2007, 3 reviews; SPLB-2007, Natal, Rio Grande del Norte, Brazil, May 2007, 3 reviews; CTS-2007, Orlando, Florida, May 2007, 3 reviews; IEEE FIE-2006, San Diego, CA, October 2006, 13 abstracts and 2 full-paper reviews; ACM ITiCSE-2006, Bologna, Italy, June 2006, 2 reviews; CTS-2006, Las Vegas, NV, May 2006, 5 reviews; ACM SIGSCE-2006, Houston, TX, March 2006, 3 reviews; IASTED SEA-2005, Phoenix, AZ, November 2005, 6 reviews; CAINE-

2005, Honolulu, Hawaii, November 2005, 10 reviews; CCSP-2005, Kuala Lumpur, Malaysia, November 2005, 3 reviews; IASSE-2005, Toronto, Canada, July 2005, 7 reviews; IWSSA-2005, Las Vegas, Nevada, June 2005, 4 reviews; SBLP-2005, Recife, Brazil, May 2005, 3 reviews; SBLP-2005, Recife, Brazil, May 2005, 3 reviews; IASTED ACIT-SE 2005, Novosibirsk, Russia, June 2005, 3 reviews; ACM ITiCSE-2005, Lisbon, Portugal, June 2005, 3 reviews; IEEE FUZZ-2005, Reno, NV, May 2005, 4 reviews; CTS-2005, St. Louis, MI, May 2005, 4 reviews; CATA-2005, New Orleans, LA, March 2005, 2 reviews; ACM SIGSCE-2005, St. Louis, February 2004, 4 reviews; IEEE AICSSA, Cairo, Egypt, December 2004, 2 reviews; CSITeA-2004, Cairo, Egypt, December 2004, 5 reviews; CAINE-2004, Orlando, FL, November 2004, 4 reviews; SAPIR-2004, Fortaleza, Brazil, August 2004, 1 review; IASSE-2004, Nice, France, July 2004, 5 reviews; SBLP-2004, Niteroi, Rio de Janeiro, Brazil, May 2004, 4 reviews; SERP-2004, Las Vegas, NV, June 2004, 7 reviews; CATA-2004, Seattle, WA, March 2004, 5 reviews; CAINE-2003, Las Vegas, NV, November 2003, 2 reviews; IASSE-2003, San Francisco, CA, July 2003, 6 reviews; SERP-2003, Las Vegas, NV, June 2003, 6 reviews.

PUBLICATIONS & PRESENTATIONS

[in reverse temporal order, most recent first]

NOTES: (i) *The names of students who co-authored the articles are in bold.*

(ii) *Articles on education, training or assessment topics are marked with a **

Books and Book Chapters

- [4] Elpern, J. and Dascalu, S., *A Framework for Understanding the Open Source Revolution*, Chapter XIV in Pierre Tiako (ed.), *Designing Software-Intensive Systems*, IGI Global, 2008, pp. 439-454.
- [3] Munteanu, F., Ionescu, T., Tataru, D., Musca, G., and Dascalu, S., *Computer Programming* (in Romanian), Editura Didactica, Romania, 1993 (2nd edition 1995).
- [2] Ionescu, T., Nastea, D., and Dascalu, S., *Pascal, A High Level Programming Language*, course notes (in Romanian), Litografia UPB, Polytechnic Institute of Bucharest, 1992.
- [1] Mihu, I., Iliescu, S., Catana, I., Gaburici, V., Munteanu, F., Dumitriu, S., Barbulea, S., Carstoiu, D., Simion, G., Dascalu, S., and Marcu, A., *Industrial Electronics and Automation*, laboratory guide (in Romanian), Litografia IPB, 1986.

Journal Articles

- [20] Jayet-Bray, L.C., **Anumandla, S.R., Thibeault, C.M., Hoang, R.V.**, Goodman, P.H., Dascalu, S.M., Bryant, B.D., Harris, F.C., Jr. Real-time human-robot interaction underlying neurobotic trust and intent recognition. Invited article submission to the *Journal of Neural Networks*. Submitted October 2011, under review.
- [19] **Brandstetter III, W.E., Mahsman, J.D., White, C.J.**, Dascalu, S., and F.C. Harris, Jr. (2011). Multi-resolution deformation in out-of-core terrain rendering. To appear in the *International Journal of Computers and Their Applications* **18** (4), December 2011.
- [18] **Brown D., Hoang R., Sgambati M.**, Brown T., Dascalu S., and F.C. Harris, Jr. (2010). An application for tree detection using satellite imagery and vegetation data. *Journal of Computational Methods in Sciences and Engineering (JCMSE)* **10** (1, 2) s1: 13-25.

- [17] **Hegie J.M., Kimmel A.S., Parian K.H.,** Dascalu S., and F.C. Harris, Jr. (2010). WiELD-CAVE: Wireless ergonomic lightweight device for use in the CAVE. *Journal of Computational Methods in Sciences and Engineering (JCMSE)* **10** (1, 2) s2: 177-186.
- [16] **Motwani R.,** Harris F.C. Jr., and S. Dascalu (2010). An Eigen-normal approach for 3D mesh watermarking using support vector machines. *Journal of Electronic Science and Technology (JEST)* **8** (3): 237-243.
- [15] **Muhanna, M., Tackitt, B.** and S. Dascalu (2009). Prototype details of the smartphone-based Researcher's Companion Software (RCS). *Journal of Computational Methods in Sciences and Engineering* **9** (1, 2) s. 2: 191-200.
- [14] Elpern, J. and S. Dascalu (2009). A framework for understanding the open source revolution. *Journal of Open Source Software & Processes* **1** (3): 1–16.
- [13] Karam, M., Smedley, T., and S. Dascalu (2008). Unit level test adequacy criteria for visual dataflow languages and a testing methodology. *ACM Transactions on Software Engineering and Methodology (TOSEM)* **18** (1): 1/1-37.
- [12] Goodman, P., Zou, Q., and S. Dascalu (2008). Framework and implications of virtual neurorobotics, *Frontiers in Neuroscience* **2** (1): 123–128.
- [11] Karam, M., Dascalu, S., **Safa, H., Santina, R., and Z. Koteich** (2008). A product-line architecture for web service-based visual composition of web applications. *Journal of Systems and Software* **81** (6): 855-867.
- [10]* Nicolescu, M., **Leigh, R., Olenderski, A.,** Louis, S., Dascalu, S., **Miles, C., Quiroz, J.,** and R. Aleson (2007). A training simulation system with realistic autonomous ship control. *Computational Intelligence Journal* **23** (4): 497-516.
- [9] Goodman, P., **Buntha, S.,** Zou, Q., and S. Dascalu (2007). Virtual neurorobotics to accelerate development of plausible neuromorphic brain architectures, *Frontiers in Neurorobotics Journal* **1** (1): 1-7.
- [8]* Dascalu, S., **Buntha, S.,** Saru, D. and N. Debnath (2006). Software tool for naval surface warfare simulation and training. *Journal of Computational Methods in Sciences and Engineering* **6** (5-6) supplement 2: 427-444.
- [7] Karam, M., Dascalu, S., and R.H. Hazimé (2006). Challenges and opportunities for improving code-based testing of graphical user interfaces. *Journal of Computational Methods in Sciences and Engineering* **6** (5-6) supplement 2: 379-388.
- [6] **Yi, B.,** Harris, F.C., Jr., Dascalu, S., and A. Erol (2006). User interface aspects of a human-hand simulation system. *J. for Systemics, Cybernetics & Informatics* **3** (5): 77-83.
- [5] **Kallman, J., Minaie, P., Truppi, J.,** Dascalu, S., and F.C. Harris, Jr. (2004). Software modeling for open distributed network monitoring systems. Springer Verlag, *Lecture Notes in Computer Science* **3126**: 158-169.
- [4] **Westphal, B.,** Harris, F.C., and S. Dascalu (2004). Snippets: support for drag-and-drop programming in the Redwood environment. *J. of Universal Comp. Sci.* **10** (7): 859-871.
- [3] **Arnold, S., Osterhout, C., Yim, C.,** and S. Dascalu (2004). Specification of the UFT web-based fitness tracking software. *WSEAS Transactions on Computing* **2** (3): 387-392.
- [2] **Westphal, B.T.,** Harris, F., and S. Dascalu (2004). Redwood: a visual environment for software design and implementation. *WSEAS Transactions on Computing* **2** (3): 380-386.
- [1]* Saru, D., Dascalu, S., Stanescu, A.M., and A. Petcu (2004). Integration software for an educational virtual laboratory supervising flexible manufacturing cells. *Control Engineering and Applied Informatics Journal* **6** (1): 53-60.

Peer-Reviewed Conference Publications

2011

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Abstracts

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- [2] Dascalu, S., and Pasculescu, A. "Stratified Programming: Developing Programs Using Strata," *Program and Abstracts Procs. of the 2005 IEEE Oklahoma Symposium on Information Technology and Entrepreneurship (ITE-2005)*, Langston U., Oklahoma City, OK, April 2005, pp. 61-63.
- [1] Elpern, J., and Dascalu, S., "A Framework for Understanding the Open Source Revolution," *Program and Abstracts Proceedings of the 2005 IEEE Oklahoma Symposium on Information Technology and Entrepreneurship (ITE-2005)*, Langston University, Oklahoma City, OK, April 2005, pp. 48-51.

Posters

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- [4] St. Jeor, S., **Okamoto, S.**, Gerweck, C., Kleyman, K., Luerken, E., Dahir, V., Dascalu, S., Krenkel, J., Wirshing, J., Frattinger, S., Een, M., Molini, M., Scott, B., Sanders, M., and Plodkowski, R. “Applying Energy Balance in Practice,” *Food Nutrition Conference and Expo (FNCE-2007)*, Philadelphia, PA, September 2007.
- [3] **Shankar, A.**, Louis, S., Dascalu, S., Houmanfar, R., and Hayes. L., “XCS for Adaptive User Interfaces,” *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2007)*, London, England, July 2007, pp. 1876.
- [2] **Arnold, S., Osterhout, C., Yim, C.**, and Dascalu, S., “Software Specification of a Web-Based Fitness Tracking Application,” *16th International Conference on Computer Applications in Industry and Engineering (CAINE-2003)*, Las Vegas, NV, November 2003 (also published as a one-page abstract, #25 in section Conference Publications).
- [1] Ionescu, T., Dascalu, S., and **Dumitru, O.**, “Configuration Program for the ESMC Measuring Equipment,” *4th National Conference on Electronics, Telecommunications, Automation, and Computers (CNETAC-4)*, Bucharest, Romania, December 1988.

Presentations

Presentations for published conference papers listed above: 1, 2, 8, 9, 14, 15, 17, 19, 20, 21, 22, 23, 24, 28, 29, 30, 39, 43, 50, 52, 54, 58, 59, 60, 61, 62, 63, 65, 67, 70, 72, 74, 79, 80, 81, 83, 84, 94, 110, 111, 112, 113. In addition, I presented the following:

- [22] Dascalu S. *Imagine a million file cabinets of climate data: The Nevada Climate Change Data Portal*. Invited talk part of the Nevada Climate Change Seminar Series. University of Nevada, Las Vegas, September 7, 2011.
- [21]* Dascalu S. *A brief summary of my research and teaching at UNR*. Talk at the University “Politehnica” Bucharest, Romania. Meeting organized as part of the Empowering Romanian Research and Intelligent Information Technology (ERRIC) project activities. [ERRIC is part of a European Union-funded project]. May 30, 2011.
- [20] Dascalu S. *CAVEMANDER: A software platform for building command-and-control applications in CAVE*. Talk at University of Applied Sciences, Geneva, Switzerland, May 6, 2010.
- [19]* Dascalu S. *Cyberstructure developments for climate change research, education and outreach in Nevada*. Talk at Glyndwr University, Wrexham, Wales, UK, April 27, 2010.
- [18]* Dascalu S. *Experience report on teaching Senior Projects on Computer Science*. Talk at Langston University, Langston, OK, April 9, 2010.
- [17]* Dascalu S. *Cyberinfrastructure developments for Nevada climate change research and education*. Talk at IEEE Oklahoma City section, Oklahoma City, OK, April 8, 2010.
- [16] Dascalu S. *CAVEMANDER: A software platform for building command-and-control applications in CAVE*. Talk at University of Alabama at Birmingham, March 3, 2010.
- [15]* Dascalu S. *Cyberinfrastructure developments for Nevada climate change research, education and outreach*. Talk at University of Alabama at Tuscaloosa, March 2, 2010.
- [14]* Dascalu, S., *A look at HCI topics as shown at youtube*, invited talk at the 1st International Conference on Advances in Human-Computer Interaction (ACHI-2008), St. Luce, Martinique, February 12, 2008.
- [13] Dascalu, S., and Pasculescu, A., “Stratified Programming: Developing Programs Using Strata,” talk at the IEEE 2005 Oklahoma Symposium on Information Technology and Entrepreneurship (ITE-2005), Langston University, Oklahoma City, OK, April 20, 2005.

- [12]* Dascalu, S., "Computer Science Projects: From Concept to Prototype," College of Engineering's Industry Day, University of Nevada, Reno, October 8, 2004.
- [11] Dascalu, S., "Strata-Based Software Construction," seminar talk part of the IEEE/CSE Colloquia Series, UNR, March 2004.
- [10] Dascalu, S., "Harmony: Approach and Tool for Combining Semi-formal and Formal Notations in Software Specification," Department of Computer Science, UNR, USA, March 26, 2002. Also presented on April 5, 2002 in the Dept. of Computer Science, University of Manitoba, Winnipeg, Canada, and on April 11, 2002 in the Dept. of Computing and Information Science, University of Guelph, ON, Canada.
- [9] Dascalu, S., "Combining Graphical and Formal Notations in Software Specification: An Approach and Its Supporting Tool," Department of Electrical and Computer Engineering, University of Western Ontario, London, Ontario, Canada, March 4, 2002.
- [8] Ionescu, T., and Dascalu, S., "Using the M118 Microcomputer for Camshaft Automatic Testing," 6th Symposium on Microprocessors, Microcomputers, and Applications (MICRO'87), Polytechnic Institute of Bucharest, November 1987.
- [7] Ionescu, T., Moldovan, L., and Dascalu, S., "On Camshaft Computer-based Testing," 4th AMC/CIMFT Conference, Research & Design Institute for Fine Mechanics and Tools, Bucharest, November 1986.
- [6] Moldovan, L., and Dascalu, S., "Methods for Calculating the Camshafts' Referential Axes," 4th AMC/ CIMFT Conference, Research & Design Institute for Fine Mechanics and Tools, Bucharest, November 1986.
- [5] Dascalu, S., "Operator Interface for Mechanical Parameters Measuring Systems," 5th Symposium on Microprocessors, Microcomputers, and Applications (MICRO'85), Polytechnic Institute of Bucharest, November 1985.
- [4] Ionescu, T., Ceaparu, M., and Dascalu, S., "Computer-Aided Testing of DACIA 1300 Car Camshafts," 2nd National Conference on Electronics, Telecommunications, Automation, and Computers (CNETAC-2), Bucharest, December 1984.
- [3] Dascalu, S., and Marin, A.M., "A Microprocessor-Based Control System with Embedded Mathematical Processor," Students' Scientific Communications Session, Polytechnic Institute of Bucharest, April 1982.
- [2] Dascalu, S., and Marin, A.M., "Analog Input Processor," Students' Scientific Communications Session, Polytechnic Institute of Bucharest, April 1981.
- [1] Dascalu, S., "Convex Functions. Jensen's Inequality. Applications," Communications Session dedicated to the 110th Anniversary of the Mihai Viteazul High School, Bucharest, December 1975.

PROFESSIONAL AFFILIATIONS

- IEEE, vice-chair (elected) of the Northern Nevada Section (2005 – 2010).
- ACM, member, since 2004
- ASEE, member, since 2005
- ISCA, member, since 2003

LANGUAGES AND CITIZENSHIP STATUS

Languages: English, Romanian, French (reading)
Citizenship: Canadian and Romanian
USA status: Permanent resident