

CURRICULUM VITAE

David S. Rosenblum

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Provost's Chair Professor
School of Computing
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h-index = 51, *i10-index* = 98 (Google Scholar, June 3, 2018); *Erdős number* ≤ 4

Summary of Key Accomplishments and Research Interests

Fellow of the ACM and IEEE
Recipient of the ACM SIGSOFT Distinguished Service Award
Recipient of two significant test-of-time awards for research papers
Currently Editor-in-Chief of one of the leading archival journals in software engineering (ACM TOSEM)
Previously Chair of the leading international professional group in software engineering (ACM SIGSOFT)
Produced significant, highly cited research results in formal methods, software testing, software architecture, distributed systems, and ubiquitous computing
Secured tens of millions of dollars in extramural research funding
Graduated ten PhD students to date with strong placements in academia and industry
Held professorships and leadership positions in academia in three countries on three continents
Held research and leadership positions in industry
Current research is in probabilistic verification, software testing, applied machine learning, and IoT

Honors and Awards

ACM SIGSOFT Distinguished Service Award, 2018
Fellow of the Association for Computing Machinery (ACM), 2010
"For contributions to software testing and distributed systems, and for service to the software engineering community"
Fellow of the Institute of Electrical and Electronics Engineers (IEEE), 2006
"For contributions to scalable, distributed component- and event-based software systems"
Chartered Fellow of the Institution of Engineering and Technology (IET), 2005
Chartered Fellow of the British Computer Society (BCS), 2005
Senior Member of the Singapore Computer Society (SCS), 2013
Featured in "People of ACM", Jan. 5, 2016,
<http://www.acm.org/articles/people-of-acm/2016/david-s-rosenblum>
2008 ACM SIGSOFT Impact Paper Award, ESEC/FSE '97 paper (#C16)
2002 ICSE Most Influential Paper Award, ICSE 1992 paper (#C8)
2nd Prize, ACM SIGSOFT FSE 2014 Visions & Challenges paper (#C72)
Best Demo Award, IoT 2015 Demo (presented by Max Pagel) (#C75)
Provost's Chair Professor, Dept. of Computer Science, National University of Singapore, 2016
Wolfson Research Merit Award, The Royal Society, UK, 2004–2009
CAREER Award, US National Science Foundation, 1997–2001
Best Graduate Student Paper Award, ACM Special Interest Group on Ada (SIGAda), 1986 (#J2)
L.F. Connell Award, Best Undergraduate Student, Dept. of Physics, North Texas State Univ., 1982

Education

- Ph.D. *Electrical Engineering (Computer Systems)*, 1988
Stanford University, Stanford, CA, USA
- M.S. *Electrical Engineering (Computer Systems)*, 1987
Stanford University, Stanford, CA, USA
- M.S. *Computer Sciences*, 1983
North Texas State University, Denton, TX, USA
- B.S. (summa) *Computer Sciences (major), Mathematics (minor)*, 1982
North Texas State University, Denton, TX, USA

Professional Certifications

- Senior Management Programme, National University of Singapore, 2012
Chartered Engineer (CEng), Engineering Council UK, 2006–2013 (registered with IET)

Academic Positions

- 2011– *Provost's Chair Professor, Department of Computer Science (2016–present)*
Professor, Department of Computer Science (2011)
Director, NUS-Singtel Cyber Security Research & Development Laboratory (2016–present)
Dean, School of Computing (2013–2016)
Director of the Felicitous Computing Institute (2012–present)
School of Computing, National University of Singapore, Republic of Singapore
- 2004–2011 *Professor of Software Systems*
Graduate Tutor (2008–2011)
Course Coordinator, MSc in Software Systems Engineering (2004–2007)
Director, London Software Systems (2004–2008)
Head of Software Systems Engineering (2008–2011)
Deputy Head of Department (2010–2011)
Department of Computer Science, University College London, UK
- 1998–2002 *Associate Professor (1998), Assistant Professor (1996)*
Faculty Affiliate, University of California Institute for Software Research (ISR)
Associate Chair for Computing (1998–2001)
Acting Manager, Computing Support Group (1999)
Dept. of Information & Computer Science, University of California, Irvine, CA, USA
- 1996 *Part-Time Lecturer*
Department of Computer Science, Rutgers University, Piscataway, NJ, USA
- 1983–1988 *Research Assistant*
Computer Systems Laboratory, Stanford University, Stanford, CA, USA
- 1982–1983 *Teaching Fellow*
Department of Computer Sciences, North Texas State University, Denton, TX, USA
- 1981 *Programmer/Analyst*
University of Texas Health Science Center at Dallas, , TX, USA

Industry Positions

- 2001–2003 *Chief Technology Officer and Principal Architect*
PreCache Inc., Orange, CA, and Bridgewater, NJ, USA
- 1988–1996 *Member of the Technical Staff*
AT&T Bell Laboratories, Murray Hill, NJ, USA

Other Academic Appointments

- 2017– *External Examiner, Bachelor of Computer Science (Hons) (Software Engineering)*

- Faculty of Computing and Informatics, Multimedia University, Malaysia
- 2017– *External Examiner, Bachelor of Software Engineering*
Faculty of Computer Science and Information Technology, Universiti Putra Malaysia, Malaysia
- 2014–2016 *Executive Committee, Services & Digital Economy Research & Development*
National Research Foundation (NRF), Singapore
- 2015–2016 *Management Board*
Institute of Systems Science (ISS), National University of Singapore, Singapore
- 2015–2016 *Management Board*
Institute for Mathematical Sciences (IMS), National Univ. of Singapore, Singapore
- 2013–2018 *Visiting Professor*
Department of Computer Science, University College London, London, UK
- 2013–2016 *Advisory Committee*
School of Infocomm, Republic Polytechnic, Singapore
- 2013–2016 *Management Board*
Temasek Laboratories, National University of Singapore, Singapore
- 2007–2009 *Faculty Selection Committee*
Faculty of Informatics, Università della Svizzera Italiana, Lugano, Switzerland
- 2006–2010 *External Examiner, BEng/MEng in Computer Science and Software Engineering*
External Examiner, BSc Computer Science with Business Management
External Examiner, BSc/MEng Electronic and Software Engineering
School of Computer Science, University of Birmingham, UK
- 2005– *Advisory Council*
Dept. of Computer Science & Engineering, Univ. of North Texas, Denton, TX, USA
- 2004–2010 *Honorary Professorial Research Fellow*
Department of Computing, Imperial College London, London, UK
- 2004–2007 *External Examiner, MSc in Software Engineering for the e-Economy*
External Examiner, MSc in Advanced Software Engineering
External Examiner, MSc in Advanced Distributed Systems
Department of Computer Science, University of Leicester, Leicester, UK

Other Industry Appointments

- 1999–2001 *Scientific Advisory Board*
HomeGopher, Inc., Tustin, CA, USA

Consulting and Other Professional Service

- 2017– ACM Distinguished Member Committee
- 2012 *External Reviewer, Faculty Hiring Committee*
Department of Computer Science and Engineering, Aalto University, Jul. 2012
- 2011–2015 ACM-IEEE Computer Society Ken Kennedy Award Committee
- 2007 *Expert Reviewer, Software Product Lines Research Programme*
Lero—The Irish Software Engineering Research Centre, Univ. of Limerick, Ireland
- 2006 *Ex-Post Evaluation Panelist on behalf of Technopolis Ltd*
Industry PhD programme, IDA Department, Linköping University, Sweden
- 2004 Senior Advisor, Shanghai Software Testing Center, Shanghai, China
- 2004 Expert Witness, individual claim in Brent County Court, London, UK
- 2004–2005 *Expert Consultant, Intelligence in Future Imaging Technology (IFIT) Consortium*

Kodak Research, UK

2000–2011 *Co-Lead (with Lori A. Clarke), Software Testing and Analysis Team*
Software Engineering Impact Project

1993–1994 Expert Witness, US Department of Labor Alien Employment Certification cases

1990–1991 *Representative from AT&T, Formal Methods Transition Study*
Microelectronics and Computer Technology Corporation (MCC), Austin, TX, USA

Elective Offices

2001–2015 *Past Chair (2012-2015)*
Chair (2009–2012)
Vice Chair (2005–2009)
Member-at-Large (2001–2012)
ACM Special Interest Group on Software Engineering (ACM SIGSOFT)

Editorial Boards

ACM Transactions on Software Engineering and Methodology, 2005-present
Editor-in-Chief, 2013-present
IEEE Transactions on Software Engineering, 1998–2002
Co-Editor, Outstanding Papers of ICSE 1999, Vol. 27, No. 2, Feb. 2001
Guest Co-Editor, Best Papers of ISSTA 2007, Vol. 34, No. 5, Sep./Oct. 2008
Software Process Improvement and Practice, 1997–1998

Current Professional Memberships

Association for Computing Machinery (ACM) (Fellow)
Special Interest Group on Data Communication (SIGCOMM)
Special Interest Group on Mobility of Systems, Users, Data and Computing (SIGMOBILE)
Special Interest Group on Software Engineering (SIGSOFT)
Institute of Electrical and Electronics Engineers (IEEE) (Fellow)
Singapore Computer Society (SCS) (Senior Member)
Information Technology Management Association of Singapore (ITMA)
UK Computing Research Committee (UKCRC)

Grants and Contracts

National University of Singapore

Singapore National Research Foundation, *NUS-Singtel Corporate Research Laboratory in Cyber Security*, S\$42,768,245 (funded with S\$14,129,194 each from NRF and Singtel and S\$14,509,857 from NUS), Jul. 2016–Jun. 2021. Lead PI and Lab Director.

National University of Singapore – Humboldt Universität zu Berlin Profile Partnership, *Efficient Probabilistic Verification of Reconfigurable Software System*. S\$23,550.00, Jul. 2016–Jun. 2017. PI for NUS, with Lars Grunske as PI for HU.

Singapore Agency for Science, Technology and Research (A*STAR), Science and Engineering Research Council (SERC), Public Sector Research Funding (PSF). *Ambient Web: Towards Write Once, Run Everywhere Mobile IoT Applications*, 1521200084. S\$648,750.00, Apr. 2016–Mar. 2019. Sole PI.

Singapore Ministry of Education, Academic Research Fund Tier 2. *Modeling and Analysis of Stochastic Systems with Perturbed Parameters*, MOE2015-T2-1-137. S\$417,705.60, Dec. 2015–Nov. 2018. Sole PI.

Microsoft Research Asia. *Inferring People's Mood and Context: Methods and Framework*, 754074. S\$25,037.00, Apr. 2013–Apr. 2014. Co-PI w/Stanislaw Jarzabek as PI.

National University of Singapore, School of Computing and Office of the Deputy President for Research & Technology. *Felicitous Computing Institute*, R-252-000-473-133 and R-252-000-473-750. S\$2,000,000.00, Jan. 2012–Dec. 2015. PI and Institute Director.

National University of Singapore, Singapore Ministry of Education Academic Research Fund Tier 1. *Advances in Probabilistic Modeling and Analysis*, R-252-000-458-133, S\$300,000.00, Jun. 2011–Nov. 2014. Sole PI.

University College London

European Office of Aerospace Research and Development (EOARD), US Air Force Office of Scientific Research (AFOSR). *Enhancing the Dependability of Complex Missions through Automated Analysis*, FA8655-10-1-3007, US\$194,295.00, Jan. 2010–Jul. 2013. Sole PI.

UK Engineering and Physical Sciences Research Council (EPSRC). *UbiComp Grand Challenge*, EP/F013442/1, travel grant for Sebastian Elbaum. £1,660, Jun. 2008–Sep. 2008. Sole PI.

UK Engineering and Physical Sciences Research Council (EPSRC). *Improving Medical Safety using Software Engineering Technology*, EP/E062245/1, visiting researcher grant for Leon J. Osterweil and Lori A. Clarke. £71,417.81, Apr. 2007–Aug. 2007. Sole PI.

UK Engineering and Physical Sciences Research Council (EPSRC). *Testing Techniques for Context-Aware Ubiquitous Systems*, EP/E006191/1, visiting researcher grant for Sebastian Elbaum. £54,992.99, Aug. 2006–Dec. 2006. Sole PI.

UK Engineering and Physical Sciences Research Council (EPSRC), Wired and Wireless Intelligent Networked Systems (WINES) Programme. *UbiVal: Fundamental Approaches to Validation of Ubiquitous Computing Applications and Infrastructures*, EP/D077273/1, project at University College London, University of Birmingham, Imperial College London, Cambridge University and University of Oxford. £1,610,781.58 (including £634,475.93 for University College London), Oct. 2006–Sep. 2010. Project Director.

European Commission, Mobile and Wireless Services Beyond 3G Strategic Objective, Information Society Technologies (IST), Sixth Framework Programme (FP6). *PLASTIC: Providing dependable and Adaptive Service Technology for pervasive Information and Communication*, EU-IST-2005-026955, specific targeted research project (STREP) of 11 partners coordinated by Valérie Issarny of INRIA. €2,500,000 (including €285,000 for University College London), Feb. 2006–Jul. 2008. Co-PI.

European Commission, Global Computing II Programme, Future and Emerging Technologies (FET), Information Society Technologies (IST), Sixth Framework Programme (FP6). *SENSORIA: Software Engineering for Service-Oriented Overlay Computers*, EU-IST-3-016004-IP-09, integrated project (IP) of 18 partners coordinated by Martin Wirsing of LMU München. €8,150,000 (including €375,748 for University College London), Sep. 2005–Aug. 2009. Site Leader for UCL, Work Package Leader (WP6, Deployment and Reengineering).

The Royal Society, Wolfson Research Merit Award, £200,000, Apr. 2004–Mar. 2009. Sole PI.

University of California, Irvine

US Defense Advanced Research Projects Agency (DARPA), Information Systems Office (ISO), Program in Dynamic Assembly for System Adaptability, Dependability, and Assurance (DASADA). *Proteus: Assessment and Adaptation through Dynamic Architecture Technology*, F30602-00-2-0607. US\$1,400,000, Jun. 2000–Jun. 2003. Co-PI with PI Richard N. Taylor, co-PIs David F. Redmiles and Adriaan W. van der Hoek.

US Defense Advanced Research Projects Agency (DARPA), Information Technology Office (ITO), Program in Runtime Environments for Networked, Embedded Systems (RENES). *SensOS: Architecture-centric Dynamic Adaptation of Deeply Networked Embedded Systems*, F30602-99-C-0174. US\$980,400 (including US\$443,313 for UC Irvine), Sep. 1999–Jan. 2001. Co-PI with PI Richard N. Taylor.

US Air Force Office of Scientific Research, New World Vistas Program. *Specification and Dynamic Checking of Composition Constraints in Distributed Component-Based Systems*, F49620-98-1-0061. US\$278,767, Nov. 1997–Oct. 2001. Sole PI.

US National Science Foundation, Software Engineering & Languages Program, Faculty Early Career Development (CAREER) Award. *CAREER: Mechanisms for Ensuring the Integrity of Distributed Object Systems*, CCR-9701973. US\$200,000, Jul. 1997–Jun. 2001. Sole PI.

University of California MICRO Program, *Specifying and Checking Integrity Constraints in Distributed Avionics Systems*, 97-151/UCM-110-720842AK. US\$7,959, Jul. 1997–Dec. 1998. Co-sponsored by Northrop Grumman Corporation. Sole PI.

University of California, Irvine, Department of Information and Computer Science, Research & Travel Award, US\$2,623, 1998. Sole PI.

University of California, Irvine, Department of Information and Computer Science, Research & Travel Award, US\$2,300, 1997. Sole PI.

Patents

- P11. Y. Huang, A.W.P. Fung, D.S. Rosenblum, S. Yajnik, R. Teodorescu, T.W. Chen, C.-M. Lin, C.Y. Wang, P.F. Yang and R.C. Leng, *Packing routing via payload inspection for alert services, for digital content delivery and for quality of service management and caching with selective multicasting in a publish-subscribe network*, Korea Patent, registration no. 1009852370000, Sep. 28, 2010.
- P10. P.F. Yang, T.W. Chen, A.W.P. Fung, D.S. Rosenblum, S. Yajnik, C.Y. Wang, C.M. Lin, Y. Huang and R. Teodorescu, *Method and apparatus for reliable and efficient content-based routing and query and response in a publish-subscribe network*, Korea Patent, registration no. 1009715060000, Jul. 14, 2010.
- P9. T.-W. Chen, A.W.P. Fung, D.S. Rosenblum and P.-F. Yang, *Method and apparatus for content-based packet routing using compact filter storage and off-line pre-computation*, US Patent 7,653,753, Jan. 26, 2010.
- P8. D.S. Rosenblum and R. Teodorescu, *Method and apparatus for implementing query-response interactions in a publish-subscribe network*, US Patent 7,627,603, Dec. 1, 2009.
- P7. T.-W. Chen, A.W.P. Fung, D.S. Rosenblum and P.-F. Yang, *Method and apparatus for propagating content filters for a publish-subscribe network*, US Patent 7,551,629, Jun. 23, 2009.
- P6. P.-F. Yang, T.-W. Chen, A.W.P. Fung, D.S. Rosenblum, S. Yajnik, C.-Y. Wang, C.-M. Lin, Y. Huang and R. Teodorescu, *Method and apparatus for reliable and efficient content-based routing and query and response in a publish-subscribe network*, China Patent, publication no. 1656474, Feb. 4, 2009.
- P5. D.S. Rosenblum, *Method for sending and receiving a Boolean function over a network*, US Patent 7,117,270, Oct. 3, 2006.
- P4. T.-W. Chen, A.W. Fung, P.-F. Yang, Y. Huang, C.-M. Lin, S. Yajnik, C.-Y. Wang and D.S. Rosenblum, *Packet routing via payload inspection and subscription processing in a publish-subscribe network*, Hong Kong Patent 1082858, Jun. 16, 2006.
- P3. D.S. Rosenblum, *Method for storing Boolean functions to enable evaluation, modification, reuse, and delivery over a network*, US Patent 6,910,033, Jun. 21, 2005.
- P2. T.-W. Chen, A.W. Fung, P.-F. Yang, Y. Huang, C.-M. Lin, S. Yajnik, C.-Y. Wang and D.S. Rosenblum, *Packet routing via payload inspection and subscription processing in a publish-subscribe network*, Taiwan Patent 571531, Jan. 11, 2004.
- P1. Y.F.R. Chen, D.S. Rosenblum and K.-P. Vo, *System and method for selecting test units to be re-run in software regression testing*, US Patent 5,673,387, Sep. 30, 1997.

Publications

Edited Books

- EB4. D. Bianculli, N. Medvidović and D.S. Rosenblum (editors), *40 Editions of ICSE—the ruby anniversary celebration*, limited edition book distributed at the 40th Int'l Conf. Software Engineering, Gothenburg, Sweden, May–Jun. 2018. Available online at <https://www.icse2018.org/info/50-years-of-se> (last accessed Jun. 3, 2018).
- EB3. D.S. Rosenblum and G. Taentzer (co-editors), *Proc. 13th Int'l Conf. Fundamental Approaches to Software Engineering (FASE 2010)*, Springer LNCS 6013, Mar. 2010.
- EB2. J. Estublier and D.S. Rosenblum (co-editors), *Proc. 26th Int'l Conf. Software Engineering (ICSE 2004)*, IEEE CS Press, May 2004.
- EB1. D.S. Rosenblum (editor), *Proc. ACM SIGSOFT 2000 Eighth Int'l Symp. Foundations of Software Engineering (FSE 2000)*, ACM Press, Nov. 2000.

Chapters in Edited Books

- BC8. A. Mukhija, D.S. Rosenblum, H. Foster and S. Uchitel, "Runtime Support for Dynamic and Adaptive Service Composition", in Part VII of *Rigorous Software Engineering for Service-Oriented Systems: Results of the SENSORIA Project on Software Engineering for Service-Oriented Computing*, Springer LNCS 6582, 2011, pp. 585–603.
- BC7. H. Foster, A. Mukhija, D.S. Rosenblum and S. Uchitel, "Specification and Analysis of Dynamically-Reconfigurable Service Architectures", in Part V of *Rigorous Software Engineering for Service-Oriented Systems: Results of the SENSORIA Project on Software Engineering for Service-Oriented Computing*, Springer LNCS 6582, 2011, pp. 428–446.
- BC6. A. Carzaniga, D.S. Rosenblum and A.L. Wolf, "Design and Evaluation of a Wide-Area Event Notification Service", in *Foundations of Intrusion Tolerant Systems*, DARPA Program on Organically Assured and Survivable Information Systems (OASIS), IEEE Computer Society, 2003, pp. 283–334. Invited reprint of #J16.
- BC5. A.L. Wolf and D.S. Rosenblum, "A Study in Software Process Data Capture and Analysis", in *Process-Centered Software Engineering Environments*, IEEE Computer Society Press, 1995, pp. 361–370. Invited reprint of #C9.
- BC4. Y.-F. Chen, G.S. Fowler, D.G. Korn, E. Koutsofios, S.C. North, D.S. Rosenblum and K.-P. Vo, "Intertool Connections", Chapter 11 of *Practical Reusable UNIX Software*, Wiley, 1995, pp. 299–336.
- BC3. D.S. Rosenblum and B. Krishnamurthy, "Generalized Event-Action Handling", Chapter 9 of *Practical Reusable UNIX Software*, Wiley, 1995, pp. 247–274.
- BC2. D.S. Rosenblum, "Self-Checking Programs and Program Instrumentation", Chapter 5 of *Practical Reusable UNIX Software*, B. Krishnamurthy (ed.), Wiley, 1995, pp. 159–176.
- BC1. D.S. Rosenblum, "A Methodology for the Design of Ada Transformation Tools in a DIANA Environment", in M.V. Zelkowitz (ed.), *Reprints in Software*, third ed., IEEE Computer Society Press, 1987, pp. 84–93. Invited reprint of paper #J1.

Refereed Journal Papers

- J26. L. Liu, S. Wang, B. Hu, Q. Qiong, J. Wen and D.S. Rosenblum, "Learning Structures of Interval-Based Bayesian Networks in Probabilistic Generative Model for Human Complex Activity Recognition", *Pattern Recognition*, Vol. 81, Sep. 2018, pp. 545–561.
- J25. G. Su, Y. Feng, T. Chen and D.S. Rosenblum, "Asymptotic Perturbation Bounds for Probabilistic Model Checking with Empirically Determined Probability Parameters", *IEEE Trans. Software Engineering*, Vol. 42, No. 7, Jul. 2016, pp. 623–639.
- J24. Y. Liu, L. Nie, L. Liu and D.S. Rosenblum, "From Action to Activity: Sensor-Based Activity Recognition", *Neurocomputing*, Vol. 181, 12 Mar. 2016, pp. 108–115.
- J23. J. Lü, D.S. Rosenblum, T. Bultan, V. Issarny, S. Dustdar, M.-A. Storey and D. Zhang, "Roundtable: The Future of Software Engineering for Internet Computing", *IEEE Software*, invited contribution for Focus Section on Internetworking and Beyond, Vol. 32, No. 1, Jan./Feb. 2015, pp. 91–97.
- J22. L. Duboc, E. Letier and D.S. Rosenblum, "Systematic Elaboration of Scalability Requirements through Goal-Obstacle Analysis", *IEEE Trans. Software Engineering*, Vol. 39, No.1, Jan. 2013, pp. 119–140.
- J21. M. Sama, S. Elbaum, F. Raimondi, D.S. Rosenblum and Z. Wang, "Context-Aware Adaptive Applications: Fault Patterns and Their Automated Identification", invited paper for Special Issue on the Best Papers of FSE 2008, *IEEE Trans. Software Engineering*, Vol. 36, No. 5, Sep./Oct. 2010, pp. 644–661.
- J20. M. Sama, D.S. Rosenblum, Z. Wang and S. Elbaum, "Multi-Layer Faults in the Architectures of Mobile, Context-Aware Adaptive Applications", invited paper for Special Issue on Software Architecture and Mobility, *Journal of Systems and Software*, Vol. 83, Issue 6, Jun. 2010, pp. 906–914.
- J19. L.A. Clarke and D.S. Rosenblum, "Runtime Assertion Checking", Sidebar in "Determining the Impact of Software Engineering Research on Practice", *Computer*, Vol. 41, No. 3, Mar. 2008, p.48.
- J18. A. Orso, H. Do, G. Rothermel, M.J. Harrold and D.S. Rosenblum, "Using Component Metadata to Regression Test Component-Based Software", *Software Testing, Verification & Reliability*, Vol. 17, No. 2, Jun. 2007, pp. 61–94.

- J17. N. Medvidovic, D.S. Rosenblum, J.E. Robbins and D.F. Redmiles, "Modeling Software Architectures in the Unified Modeling Language", *ACM Trans. Software Engineering and Methodology*, Vol. 11, No. 1, Jan. 2002, pp. 2–57.
- J16. A. Carzaniga, D.S. Rosenblum and A.L. Wolf, "Design and Evaluation of a Wide-Area Event Notification Service", *ACM Trans. Computer Systems*, Vol. 19, No. 3, Aug. 2001, pp. 332–383.
- J15. J. Bible, G. Rothermel and D.S. Rosenblum, "A Comparative Study of Coarse- and Fine-Grained Safe Regression Test Selection Techniques", *ACM Trans. Software Engineering and Methodology*, Vol. 10, No. 2, Apr. 2001, pp. 149–183.
- J14. M.J. Harrold, D. Rosenblum, G. Rothermel and E. Weyuker, "Empirical Studies of a Prediction Model for Regression Test Selection", *IEEE Trans. Software Engineering*, Vol. 27, No. 3, Mar. 2001, pp. 248–263.
- J13. R. Natarajan and D.S. Rosenblum, "Supporting Architectural Concerns in Component Interoperability Standards", *IEE Proceedings – Software*, Special Issue on Component-based Software Engineering, Vol. 147, No. 6, Dec. 2000, pp. 215–223.
- J12. P. Oreizy, M.M. Gorlick, R.N. Taylor, D. Heimbigner, G. Johnson, N. Medvidovic, A. Quilici, D.S. Rosenblum and A.L. Wolf, "An Architecture-based Approach to Self-Adaptive Software", *IEEE Intelligent Systems*, Vol. 14, No. 3, May/June. 1999, pp. 54–62.
- J11. D.S. Rosenblum and E.J. Weyuker, "Using Coverage Information to Predict the Cost-Effectiveness of Regression Testing Strategies", *IEEE Trans. Software Engineering*, Vol. 23, No. 3, Mar. 1997, pp. 146–156.
- J10. D.S. Rosenblum and E.J. Weyuker, "Lessons Learned from a Regression Testing Case Study", *Empirical Software Engineering*, Vol. 2, No. 2, Jun. 1997, pp. 188–191.
- J9. P.T. Devanbu, D.S. Rosenblum, A.L. Wolf, "Generating Testing and Analysis Tools with Aria", *ACM Trans. Software Engineering and Methodology*, Vol. 5, No. 1, Jan. 1996, pp. 42–62.
- J8. B. Krishnamurthy and D.S. Rosenblum, "Yeast: A General Purpose Event-Action System", *IEEE Trans. Software Engineering*, Vol. 21, No. 10, Oct. 1995, pp. 845–857.
- J7. N.S. Barghouti, D.S. Rosenblum, D.G. Belanger and C. Alliegro, "Two Case Studies in Modeling Real, Corporate Processes", *Software Process Improvement and Practice*, Vol. 1, Pilot Issue, Aug. 1995, pp. 17–32.
- J6. D.S. Rosenblum, "A Practical Approach to Programming with Assertions", *IEEE Trans. Software Engineering*, Vol. 21, No. 1, Jan. 1995, pp. 19–31. Minor correction published in Vol. 21, No. 3, Mar. 1995, p. 265.
- J5. D.S. Rosenblum, "Specifying Concurrent Systems with TSL", *IEEE Software*, Vol. 8, No. 3, May 1991, pp. 52–61.
- J4. S. Sankar and D.S. Rosenblum, "Runtime Checking and Debugging of Formally Specified Programs", Technical Correspondence, *ACM Computing Surveys*, Vol. 23, No. 1, Mar. 1991, pp. 125–127.
- J3. D.C. Luckham, R.B. Neff and D.S. Rosenblum, "An Environment for Ada Software Development Based on Formal Specification", *ACM SIGAda Ada Letters*, Vol. VII, No. 3, May–June. 1987, pp. 94–106.
- J2. D.S. Rosenblum, "An Efficient Communication Kernel for Distributed Ada Runtime Tasking Supervisors", *ACM SIGAda Ada Letters*, Vol. VII, No. 2, Mar.–Apr. 1987, pp. 102–117. **Winner of 1986 ACM SIGAda Best Graduate Student Paper Award.**
- J1. D.S. Rosenblum, "A Methodology for the Design of Ada Transformation Tools in a DIANA Environment", *IEEE Software*, Vol. 2, No. 2, Mar. 1985, pp. 24–33.

Other Journal Papers

- JO36. D.S. Rosenblum, "Editorial", *ACM Trans. Software Engineering and Methodology*, Vol. 25, No. 2, May 2016, Article 11, 2pp.
- JO35. M.B. Dwyer and D.S. Rosenblum, "Editorial: Journal-First Publication for the Software Engineering Community", *ACM Trans. Software Engineering and Methodology*, Vol. 25, No.1, Nov. 2015, Article 1, 2pp. Also appeared in *IEEE Trans. Software Engineering*, Vol. 42, No. 1, Jan. 2016, p.1.
- JO34. D.S. Rosenblum, "The Pros and Cons of the 'PACM' Proposal: Counterpoint", *Communications of the ACM*, Vol. 58, No. 9, Sep. 2015, pp. 44–45.

- JO33. D.S. Rosenblum, "Editorial", *ACM Trans. Software Engineering and Methodology*, Vol. 23, No. 4, Aug. 2014, Article 27, 1pp.
- JO32. D.S. Rosenblum, "Editorial", *ACM Trans. Software Engineering and Methodology*, Vol. 23, No. 2, Mar. 2014, Article 11, 4pp.
- JO31. D.S. Rosenblum, "Editorial", *ACM Trans. Software Engineering and Methodology*, Vol. 23, No. 1, Feb. 2014, Article 1, 2pp.
- JO30. G.A. Lewis, J. Gray, H. Muccini, N. Nagappan, D. Rosenblum and E. Shihab, "Report of the 2013 ICSE 1st International Workshop on Engineering Mobile-Enabled Systems (MOBS 2013)", *ACM SIGSOFT Software Engineering Notes*, Vol. 38, No. 5, Sep. 2013, pp. 55–58.
- JO29. D.S. Rosenblum, "Editorial—In Memoriam: David Notkin (1955–2013)", *ACM Trans. Software Engineering and Methodology*, Vol. 22, No. 3, Jul. 2013, Article 16, 2pp.
- JO28. D.S. Rosenblum, "Editorial—Looking Forward", *ACM Trans. Software Engineering and Methodology*, Vol. 22, No. 1, Feb. 2013, Article 2, 3pp.
- JO27. D.S. Rosenblum, "Letter from the Chair", *ACM SIGSOFT Software Engineering Notes*, Vol. 37, No. 4, Jul. 2012, p. 1.
- JO26. D.S. Rosenblum, "Letter from the Chair", *ACM SIGSOFT Software Engineering Notes*, Vol. 37, No. 3, May 2012, p. 1.
- JO25. D.S. Rosenblum, "Letter from the Chair", *ACM SIGSOFT Software Engineering Notes*, Vol. 37, No. 2, Mar. 2012, p. 1.
- JO24. D.S. Rosenblum, "Letter from the Chair", *ACM SIGSOFT Software Engineering Notes*, Vol. 37, No. 1, Jan. 2012, p. 1.
- JO23. D.S. Rosenblum, "Letter from the Chair", *ACM SIGSOFT Software Engineering Notes*, Vol. 36, No. 6, Nov. 2011, p. 1.
- JO22. D.S. Rosenblum, "Letter from the Chair", *ACM SIGSOFT Software Engineering Notes*, Vol. 36, No. 5, Sep. 2011, p. 1.
- JO21. D.S. Rosenblum, "Letter from the Chair", *ACM SIGSOFT Software Engineering Notes*, Vol. 36, No. 4, Jul. 2011, p. 1.
- JO20. D.S. Rosenblum, "Letter from the Chair", *ACM SIGSOFT Software Engineering Notes*, Vol. 36, No. 3, May 2011, p. 1.
- JO19. D.S. Rosenblum, "Letter from the Chair", *ACM SIGSOFT Software Engineering Notes*, Vol. 36, No. 1, Jan. 2011, p. 1.
- JO18. D.S. Rosenblum, "Letter from the Chair", *ACM SIGSOFT Software Engineering Notes*, Vol. 35, No. 5, Sep. 2010, p. 1.
- JO17. L. Duboc, D.S. Rosenblum and E. Letier, "Death, Taxes, & Scalability", invited column for Requirements Department, *IEEE Software*, Vol. 27, No. 4, Jul./Aug. 2010, pp. 20–21.
- JO16. D.S. Rosenblum, "Letter from the Chair", *ACM SIGSOFT Software Engineering Notes*, Vol. 35, No. 4, Jul. 2010, p. 1.
- JO15. D.S. Rosenblum, "Letter from the Chair", *ACM SIGSOFT Software Engineering Notes*, Vol. 35, No. 3, May 2010, p. 1.
- JO14. D.S. Rosenblum, "Letter from the Chair", *ACM SIGSOFT Software Engineering Notes*, Vol. 35, No. 1, Jan. 2010, p. 1.
- JO13. D.S. Rosenblum, "Letter from the Chair", *ACM SIGSOFT Software Engineering Notes*, Vol. 34, No. 6, Nov. 2009, p. 1.
- JO12. D.S. Rosenblum, "Letter from the Chair", *ACM SIGSOFT Software Engineering Notes*, Vol. 34, No. 5, Sep. 2009, p. 1.
- JO11. S. Elbaum and D.S. Rosenblum, "Guest Editors' Introduction: [2007] International Symposium on Software Testing and Analysis", *IEEE Trans. Software Engineering*, Vol. 34, No. 5, Sep./Oct. 2008, pp. 577–578.

- JO10. D.S. Rosenblum, “Letter from the Vice-Chair”, *ACM SIGSOFT Software Engineering Notes*, Vol. 33, No. 5, Sep. 2008, p. 1.
- JO9. L.A. Clarke and D.S. Rosenblum, “A Historical Perspective on Runtime Assertion Checking in Software Development”, *ACM SIGSOFT Software Engineering Notes*, Vol. 31, No. 3, May 2006, pp. 25–37.
- JO8. D.S. Rosenblum, “Challenges in Software Testing”, Guest Editorial in *System Design Frontier*, Vol. 3, No. 4, Apr. 2006, pp. 5–6. Published online at <http://www.hwswworld.com/pdfs/frontier26.pdf.gz> (last accessed Mar. 28, 2006).
- JO7. D.S. Rosenblum, “Letter from the Vice-Chair”, *ACM SIGSOFT Software Engineering Notes*, Vol. 30, No. 6, Nov. 2005, pp. 1–2.
- JO6. D. Rosenblum, “Technology Update: Real-Time Delivery Gets Efficiency Boost”, invited contribution to *Network World*, Vol. 20, No. 19, May 12, 2003, p. 37. Also published online in *Network World Fusion*, <http://www.nwfusion.com/news/tech/2003/0512techupdate.html> (last accessed Aug. 2, 2010).
- JO5. J. Kramer, D. Garlan and D.S. Rosenblum, “Guest Editors’ Introduction: 1999 Int’l Conference on Software Engineering”, *IEEE Trans. Software Engineering*, Vol. 27, No. 2, Feb. 2001, pp. 97–98.
- JO4. D.S. Rosenblum, “CAREER: Mechanisms for Ensuring the Integrity of Distributed Object Systems”, NSF Software Engineering and Language Program Summaries, *ACM SIGSOFT Software Engineering Notes*, Vol. 25, No. 1, Jan. 2000, pp. 78–79.
- JO3. G.M. Karam and D.S. Rosenblum, “Succeedings of the 8th Int’l Workshop on Software Specification and Design: Concurrency and Distribution Group Report”, *ACM SIGSOFT Software Engineering Notes*, Vol. 21, No. 5, Sep. 1996, pp. 29–31.
- JO2. D.S. Rosenblum, “Formal Methods and Testing: Why the State-of-the-Art Is Not the State-of-the-Practice (ISSTA ’96/FMSP ’96 Panel Summary)”, *ACM SIGSOFT Software Engineering Notes*, Vol. 21, No. 4, Jul. 1996, pp. 64–66.
- JO1. N.S. Barghouti and D.S. Rosenblum, “Modeling Software and Business Processes in Large Organizations—Experience Report”, invited paper, *IEEE Technical Council on Software Engineering Software Process Newsletter*, No. 4, Fall 1995, pp. 5–7.

Refereed Conference and Workshop Papers

- C88. K. Ouyang, R. Shokri, D.S. Rosenblum and W. Yang, “A Non-Parametric Generative Model for Human Trajectories”, *Proc. 27th Int’l Joint Conf. Artificial Intelligence and 23rd European Conference on Artificial Intelligence (IJCAI-ECAI 2018)*, Stockholm, Sweden, Jul. 2018, to appear.
- C87. O. Al-Bataineh, M. Reynolds and D. Rosenblum, “A Comparative Study of Decision Diagrams for Real-time Model Checking”, *Proc. 25th Int’l Symp. Model Checking of Software*, Málaga, Spain, Jun. 2018, to appear.
- C86. M. Brünink and D.S. Rosenblum, “Using Branch Frequency Spectra to Evaluate Operational Coverage”, *Proc. 24th Asia-Pacific Software Eng. Conf. (APSEC 2017)*, Nanjing, China, Dec. 2017, pp.150–159.
- C85. Y. Serrano, G. Su and D.S. Rosenblum, “Probabilistic Model Checking of Perturbed MDPs with Applications to Cloud Computing”, *Proc. 11th Joint Meeting of the European Software Engineering Conf. and the ACM SIGSOFT Symp. Foundations of Software Engineering (ESEC/FSE 2017)*, Paderborn, Germany, Sep. 2017, pp. 454–464.
- C84. G. Su, T. Chen, Y. Feng and D.S. Rosenblum, “ProEva: Runtime Proactive Performance Evaluation Based on Continuous-Time Markov Chains”, *Proc. 39th Int’l Conf. Software Engineering (ICSE 2017)*, Buenos Aires, Argentina, May 2017, pp.484–495.
- C83. M. Brünink and D.S. Rosenblum, “Mining Performance Specifications”, *Proc. 24th ACM SIGSOFT Int’l Symp. Foundations of Software Engineering (FSE 2016)*, Seattle, WA, USA, Nov. 2016, pp. 39–49.
- C82. N. Wanigasekara, J. Schmalfluss, D. Carlson and D.S. Rosenblum, “A Bandit Approach for Intelligent IoT Service Composition across Heterogeneous Smart Spaces”, *Proc. 6th Int’l Conf. Internet of Things (IoT 2016)*, Stuttgart, Germany, Nov. 2016, pp. 121–129.
- C81. Y. Liu, Y. Zheng, Y. Liang, S. Liu and D.S. Rosenblum, “Urban Water Quality Prediction Based on Multi-Task Multi-View Learning”, *Proc. 25th Int’l Joint Conf. Artificial Intelligence (IJCAI 2016)*, New York, NY, USA, Jul. 2016, pp. 2576–2582.

- C80. G. Su, D.S. Rosenblum and G. Tamburrelli, "Reliability of Run-Time Quality-of-Service Evaluation using Parametric Model Checking", *Proc. 38th Int'l Conf. Software Engineering (ICSE 2016)*, Austin, TX, USA, May 2016, pp. 73–84.
- C79. G. Su, T. Chen, Y. Feng, D.S. Rosenblum and P.S. Thiagarajan, "An Iterative Decision-Making Scheme for Markov Decision Processes and Its Application to Self-Adaptive Systems", *Proc. ETAPS 2016 19th Int'l Conf. Fundamental Approaches to Software Engineering (FASE 2016)*, Springer LNCS 9633, Eindhoven, The Netherlands, Apr. 2016, pp. 269–286.
- C78. L. Liu, L. Cheng, Y. Liu, Y. Jia and D.S. Rosenblum, "Recognizing Complex Activities by a Probabilistic Interval-based Model", *Proc. 30th AAAI Conf. Artificial Intelligence (AAAI 2016)*, Phoenix, AZ, USA, Feb. 2016, pp. 1266–1272.
- C77. Y. Liu, L. Zhang, L. Nie, Y. Yan and D.S. Rosenblum, "Fortune Teller: Predicting Your Career Path", *Proc. 30th AAAI Conf. Artificial Intelligence (AAAI 2016)*, Phoenix, AZ, USA, Feb. 2016, pp. 201–207.
- C76. Y. Jia, X. Song, J. Zhou, L. Liu, L. Nie and D.S. Rosenblum, "Fusing Social Networks with Deep Learning for Volunteerism Tendency Prediction", *Proc. 30th AAAI Conf. Artificial Intelligence (AAAI 2016)*, Phoenix, AZ, USA, Feb. 2016, pp. 165–171.
- C75. D. Carlson, M. Mögerle, M. Pagel, S. Verma and D.S. Rosenblum, "A Visual Design Toolset for Drag-and-drop Smart Space Configuration", *Proc. 5th Int'l Conf. Internet of Things (IoT 2015)*, Demo Track, Seoul, Korea, Oct. 2015, pp. 193–194. **Winner of Best Demo Award.**
- C74. D. Carlson, M. Mögerle, M. Pagel, S. Verma and D.S. Rosenblum, "Ambient Flow: A Visual Approach for Remixing the Internet of Things", *Proc. 5th Int'l Conf. Internet of Things (IoT 2015)*, Seoul, Korea, Oct. 2015, pp. 114–121.
- C73. Y. Liu, L. Nie, L. Han, L. Zhang and D.S. Rosenblum, "Action2Activity: Recognizing Complex Activities from Sensor Data", *Proc. 24th Int'l Joint Conf. Artificial Intelligence (IJCAI 2015)*, Buenos Aires, Argentina, Jul. 2015, pp. 1617–1623.
- C72. S. Elbaum and D.S. Rosenblum, "Known Unknowns: Testing in the Presence of Uncertainty", *Proc. 22nd ACM SIGSOFT Int'l Symp. Foundations of Software Engineering (FSE 2014)*, Visions and Challenges Track, Hong Kong, Nov. 2014, pp. 833–836. **Winner of 2nd Prize in the Visions and Challenges Track.**
- C71. G. Su and D.S. Rosenblum, "Nested Reachability Approximation for Discrete-Time Markov Chains with Univariate Parameters", *Proc. 12th Int'l Symp. Automated Technology for Verification and Analysis (ATVA 2014)*, Springer LNCS 8837, Sydney, Australia, Nov. 2014, pp. 364–379.
- C70. T. Chen, Y. Feng, D.S. Rosenblum and G. Su, "Perturbation Analysis in Verification of Discrete-Time Markov Chains", *Proc. 25th Int'l Conf. Concurrency Theory (CONCUR 2014)*, Springer LNCS 8704, Rome, Italy, Sep. 2014, pp. 218–233.
- C69. G. Su and D.S. Rosenblum, "Perturbation Analysis of Stochastic Systems with Empirical Distribution Parameters", *Proc. 36th Int'l Conf. Software Engineering (ICSE 2014)*, Hyderabad, India, Jun. 2014, pp. 311–321.
- C68. G. Su and D.S. Rosenblum, "Asymptotic Bounds for Quantitative Verification of Perturbed Probabilistic Systems", *Formal Methods and Software Engineering: Proc. 15th Int'l Conf. Formal Engineering Methods (ÍCFEM 2013)*, Springer LNCS 8144, Queenstown, New Zealand, Oct.–Nov. 2013, pp. 297–312.
- C67. F. Zervoudakis, D.S. Rosenblum, S. Elbaum and A. Finkelstein, "Cascading Verification: An Integrated Method for Domain-Specific Model Checking", *Proc. 9th Joint Meeting of the European Software Engineering Conf. and the ACM SIGSOFT Symp. Foundations of Software Engineering (ESEC/FSE 2013)*, St. Petersburg, Russia, Aug. 2013, pp. 400–410.
- C66. X. Wang, D.S. Rosenblum and Y. Wang, "A Daily, Activity-Aware, Mobile Music Recommender System", Technical Demo Paper, *Proc. ACM Multimedia 2012 (ACMMM 2012)*, Nara, Japan, Oct.–Nov. 2012, pp. 1313–1314.
- C65. X. Wang, D.S. Rosenblum and Y. Wang, "Context-Aware Mobile Music Recommendation for Daily Activities", Full Paper, *Proc. ACM Multimedia 2012 (ACMMM 2012)*, Nara, Japan, Oct.–Nov. 2012, pp. 91–108.
- C64. C. Lucas, S. Elbaum and D.S. Rosenblum, "Detecting Problematic Message Sequences and Frequencies in Distributed Systems", *Proc. 27th ACM SIGPLAN Conf. Object-Oriented Programming, Systems, Languages and Applications (SPLASH/OOPSLA 2012)*, Tucson, AZ, USA, Oct. 2012, 915–926.

- C63. P. Papakos, L. Capra and D.S. Rosenblum, "VOLARE: Context-Aware Adaptive Cloud Service Discovery for Mobile Systems", *Proc. 9th Int'l Workshop on Adaptive and Reflective Middleware (ARM 2010)*, Bangalore, India, Nov. 2010, pp. 32–38.
- C62. H. Foster, A. Mukhija, D.S. Rosenblum and S. Uchitel, "Engage: Engineering Service Modes with WS-Engineer and Dino", Demo Track, *Proc. 7th Int'l Joint Conf. Service Oriented Computing (ICSOC/ServiceWave 2009)*, Stockholm, Sweden, Nov. 2009, pp. 641–642.
- C61. J. Cubo, F. Raimondi, M. Sama and D. Rosenblum, "A Model to Design and Verify Context-Aware Adaptive Service Composition", *Proc. IEEE Int'l Conf. Services Computing (SCC 2009)*, Springer LNCS 5900, Bangalore, India, Sep. 2009, pp. 184–191.
- C60. C. Raiciu, F. Huici, M. Handley and D.S. Rosenblum, "ROAR: Increasing the Flexibility and Performance of Distributed Search", *Proc. ACM SIGCOMM 2009 Conf. Data Communication (SIGCOMM 2009)*, Barcelona, Spain, Aug. 2009, pp. 291–302.
- C59. P. Papakos, D.S. Rosenblum, A. Mukhija and L. Capra, "VOLARE: Adaptive Web Service Discovery Middleware for Mobile Systems", *Proc. 2nd Workshop on Context-aware Adaptation Mechanisms for Pervasive and Ubiquitous Services (CAMPUS 2009)*, Vol. 19 of the *Electronic Communications of the EASST*, Lisbon, Portugal, Jun. 2009, pp. 35–40.
- C58. H. Foster, A. Mukhija, D.S. Rosenblum and S. Uchitel, "A Model-Driven Approach to Dynamic and Adaptive Service Brokering using Modes", Short Research Paper, *Proc. 6th Int'l Conf. Service Oriented Computing (ICSOC 2008)*, Sydney, Australia, Dec. 2008, pp. 558–564.
- C57. M. Sama, D.S. Rosenblum, Z. Wang and S. Elbaum, "Model-Based Fault Detection in Context-Aware Adaptive Applications", *Proc. 16th ACM SIGSOFT Int'l Symp. Foundations of Software Engineering (FSE 2008)*, Atlanta, GA, USA, Nov. 2008, pp. 261–271.
- C56. M. Sama, F. Raimondi, D. Rosenblum and W. Emmerich, "Algorithms for Efficient Symbolic Detection of Faults in Context-Aware Applications", *Proc. 1st Int'l Workshop on Automated Engineering of Autonomous and Run-Time Evolving Systems (ARAMIS 2008)*, L'Aquila, Italy, Sep. 2008, pp. 1–8.
- C55. L. Duboc, E. Letier, D.S. Rosenblum and T. Wicks, "A Case Study in Eliciting Scalability Requirements", Industrial Practice and Experience Track, *Proc. 16th Int'l Requirements Engineering Conf. (RE 2008)*, Barcelona, Spain, Sep. 2008, pp. 247–252.
- C54. A. Maule, W. Emmerich and D.S. Rosenblum, "Impact Analysis of Database Schema Changes", *Proc. 30th Int'l Conf. Software Engineering (ICSE 2008)*, Leipzig, Germany, May 2008, pp. 451–460.
- C53. M. Sama, D.S. Rosenblum, Z. Wang and S. Elbaum, "Multi-Layer Faults in the Architectures of Mobile, Context-Aware Adaptive Applications: A Position Paper", *Proc. ICSE 2008 Workshop on Software Architectures and Mobility (SAM 2008)*, Leipzig, Germany, May 2008, pp. 47–49.
- C52. A. Mukhija, A. Dingwall-Smith and D.S. Rosenblum, "QoS-Aware Service Composition in Dino", *Proc. 5th IEEE European Conf. Web Services (ECOWS 2007)*, Halle, Germany, Nov. 2007, pp. 3–12.
- C51. L. Duboc, D.S. Rosenblum and T. Wicks, "A Framework for Characterization and Analysis of Software System Scalability", *Proc. Joint 11th European Software Engineering Conf. and 15th ACM SIGSOFT Int'l Symp. Foundations of Software Engineering (ESEC/FSE 2007)*, Dubrovnik, Croatia, Sep. 2007, pp. 375–384.
- C50. H. Foster, W. Emmerich, J. Kramer, J. Magee, D.S. Rosenblum and S. Uchitel, "Model Checking Service Compositions under Resource Constraints", *Proc. Joint 11th European Software Engineering Conf. and 15th ACM SIGSOFT Int'l Symp. Foundations of Software Engineering (ESEC/FSE 2007)*, Dubrovnik, Croatia, Sep. 2007, pp. 225–234.
- C49. P. Bunyakiati, A. Finkelstein and D. Rosenblum, "The Certification of Software Tools with respect to Software Standards", *Proc. 2007 IEEE Int'l Conf. Information Reuse and Integration (IRI-2007)*, Las Vegas, NV, USA, Aug. 2007, pp. 724–729.
- C48. G.N. Rodrigues, D. Rosenblum and J. Wolf, "Reliability Analysis of Concurrent Systems using LTSA", Informal Demonstration, *Proc. 29th Int'l Conf. Software Engineering Companion Volume (ICSE 2007)*, Minneapolis, MN, USA, May 2007, pp. 63–64.
- C47. Z. Wang, S. Elbaum and D.S. Rosenblum, "Automated Generation of Context-Aware Tests", *Proc. 29th Int'l Conf. Software Engineering (ICSE 2007)*, Minneapolis, MN, USA, May 2007, pp. 406–415.

- C46. L. Popa, C. Raiciu, I. Stoica and D.S. Rosenblum, "Reducing Congestion Effects by Multipath Routing in Wireless Networks", *Proc. 14th Int'l Conf. Network Protocols (ICNP 2006)*, Santa Barbara, CA, USA, Nov. 2006, pp. 96–105.
- C45. C. Raiciu, M. Handley and D.S. Rosenblum, "Exploit Hijacking: Side Effects of Smart Defenses", *Proc. SIGCOMM 2006 Workshop on Large Scale Attack Defense (LSAD 2006)*, Pisa, Italy, Sep. 2006, pp. 123–130.
- C44. C. Raiciu and D.S. Rosenblum, "Enabling Confidentiality in Content-Based Publish/Subscribe Infrastructures", *Proc. Second IEEE Communications Society/CreateNet Int'l Conf. Security and Privacy in Communication Networks (SecureComm 2006)*, Baltimore, MD, USA, Aug.–Sep. 2006, 11 pp.
- C43. C. Raiciu, D.S. Rosenblum and M. Handley, "Revisiting Content-Based Publish/Subscribe", *Proc. 5th Int'l Workshop on Distributed Event-Based Systems (DEBS 2006)*, Lisbon, Portugal, Jul. 2006, 6 pp.
- C42. L. Duboc, D.S. Rosenblum and T. Wicks, "A Framework for Modelling and Analysis of Software Systems Scalability", Doctoral Symposium Paper, *Proc. 28th Int'l Conf. Software Engineering (ICSE 2006)*, Shanghai, China, May 2006, pp. 949–952.
- C41. G.N. Rodrigues, D.S. Rosenblum and S. Uchitel, "Reliability Prediction in Model-Driven Development", *Proc. ACM/IEEE 8th Int'l Conf. Model Driven Engineering Languages and Systems (MoDELS/UML 2005)*, Montego Bay, Jamaica, Oct. 2005, pp. 339–354.
- C40. G.N. Rodrigues, D.S. Rosenblum and S. Uchitel, "Sensitivity Analysis for a Scenario-Based Reliability Prediction Model", *Proc. ICSE 2005 Workshop on Architecting Dependable Systems (WADS 2005)*, St. Louis, MO, USA, May 2005, pp. 73–77.
- C39. G. Rodrigues, D.S. Rosenblum and S. Uchitel, "Using Scenarios to Predict the Reliability of Concurrent Component-Based Software Systems", *Proc. ETAPS 2005 8th Int'l Conf. Fundamental Approaches to Software Engineering (FASE 2005)*, Edinburgh, Scotland, UK, Apr. 2005, pp. 111–126.
- C38. G.N. Rodrigues, D. Rosenblum and W. Emmerich, "A Model Driven Approach for Software Systems Reliability", Doctoral Symposium Paper, *Proc. 26th Int'l Conf. Software Engineering (ICSE 2004)*, Edinburgh, Scotland, UK, May 2004, pp. 30–32.
- C37. A. Orso, M.J. Harrold, D. Rosenblum, G. Rothermel, M.L. Soffa and H. Do, "Using Component Metacontent to Support the Regression Testing of Component-Based Software", *Proc. IEEE Int'l Conf. Software Maintenance 2001 (ICSM 2001)*, Florence, Italy, Nov. 2001, pp. 716–725.
- C36. C. Lüer and D.S. Rosenblum, "WREN—An Environment for Component-Based Development", *Proc. Joint 8th European Software Engineering Conf. and 9th ACM SIGSOFT Int'l Symp. Foundations of Software Engineering (ESEC/FSE 2001)*, Vienna, Austria, Sep. 2001, pp. 207–217.
- C35. C. Lüer, D.S. Rosenblum and A. van der Hoek, "The Evolution of Software Evolvability". *Proc. 4th Int'l Workshop on Principles of Software Evolution (IWPSE 2001)*, Vienna, Austria, Sep., 2001, pp. 134–137.
- C34. C. Lüer and D.S. Rosenblum, "UML Component Diagrams and Software Architecture—Experiences from the WREN Project", *Proc. 1st ICSE Workshop on Describing Software Architecture with UML*, Toronto, Ontario, May 2001, pp. 79–82.
- C33. A. Orso, M.J. Harrold and D.S. Rosenblum, "Component Metadata for Software Engineering Tasks", *Proc. 2nd Int'l Workshop on Engineering Distributed Objects (EDO 2000)*, Springer LNCS 1999, Davis, CA, Nov. 2000, pp. 129–144.
- C32. A. Carzaniga, D.S. Rosenblum and A.L. Wolf, "Achieving Scalability and Expressiveness in an Internet-Scale Event Notification Service", *Proc. Nineteenth ACM Symp. Principles of Distributed Computing (PODC 2000)*, Portland, OR, Jul. 2000, pp. 219–227.
- C31. N. Medvidovic, R.F. Gamble and D.S. Rosenblum, "Towards Software Multioperability: Bridging Heterogeneous Software Interoperability Platforms", *Proc. Fourth Int'l Software Architecture Workshop (ISAW-4)*, Limerick, Ireland, Jun. 2000, pp. 77–83.
- C30. M.S. Guntersdorfer, D.G. Kay and D.S. Rosenblum, "Using Software Patents To Support The Business Model Of Software Components", *Proc. ICSE 2000 Second Workshop on Commercial Off-The-Shelf Software: Continuing Collaborations for Successful COTS Development*, Limerick, Ireland, Jun. 2000, pp. 32–37.
- C29. N. Medvidovic, A. Egyed and D.S. Rosenblum, "Round-Trip Software Engineering Using UML: From Architecture to Design and Back"., *Proc. ESEC/FSE '99 2nd Workshop on Object-Oriented Reengineering*, Toulouse, France, Sep. 1999, Technical University Vienna Technical Report TUV-1841-99-13, pp. 1–8.

- C28. N. Medvidovic, D.S. Rosenblum and R.N. Taylor, "A Language and Environment for Architecture-Based Software Development and Evolution", *Proc. 21st Int'l Conf. Software Engineering (ICSE '99)*, Los Angeles, CA, May 1999, pp. 44–53.
- C27. E. Di Nitto and D.S. Rosenblum, "Exploiting ADLs to Specify Architectural Styles Induced by Middleware Infrastructures", *Proc. 21st Int'l Conf. Software Engineering (ICSE '99)*, Los Angeles, CA, May 1999, pp. 13–22.
- C26. E. Di Nitto and D.S. Rosenblum, "On the Role of Style in Selecting Middleware and Underwear", *Proc. ICSE '99 Workshop on Engineering Distributed Objects (EDO '99)*, Los Angeles, CA, May 1999, pp. 78–83.
- C25. A. Carzaniga, D.S. Rosenblum and A.L. Wolf, "Challenges for Distributed Event Services: Scalability vs. Expressiveness", *Proc. ICSE '99 Workshop on Engineering Distributed Objects (EDO '99)*, May 1999, pp. 72–77.
- C24. N. Medvidovic and D.S. Rosenblum, "Assessing the Suitability of a Standard Design Method for Modeling Software Architectures", *Proc. First Working IFIP Conf. Software Architecture (WICSA-1)*, Feb. 1999, pp. 161–182.
- C23. R. Natarajan and D.S. Rosenblum, "Merging Component Models and Architectural Styles", *Proc. Third Int'l Software Architecture Workshop (ISAW-3)*, Lake Buena Vista, FL, Nov. 1998, pp. 109–111.
- C22. A. Carzaniga, E. Di Nitto, D.S. Rosenblum and A.L. Wolf, "Issues in Supporting Event-based Architectural Styles", *Proc. Third Int'l Software Architecture Workshop (ISAW-3)*, Lake Buena Vista, FL, Nov. 1998, pp. 17–20.
- C21. J.E. Robbins, N. Medvidovic, D.F. Redmiles and D.S. Rosenblum, "Integrating Architecture Description Languages with a Standard Design Method", *Proc. 20th Int'l Conf. Software Engineering (ICSE '98)*, Kyoto, Japan, Apr. 1998, pp. 209–218.
- C20. N. Medvidovic, D.S. Rosenblum and R.N. Taylor, "An Architecture-Based Approach to Software Evolution", *Proc. ICSE '98 Int'l Workshop on the Principles of Software Evolution (IWPSE '98)*, Kyoto, Japan, Apr. 1998, pp. 11–15.
- C19. J.E. Robbins, D.F. Redmiles and D.S. Rosenblum, "Integrating C2 with the Unified Modeling Language", *Proc. 1997 California Software Symposium (CSS '97)*, Irvine, CA, Nov. 1997, pp. 11–18.
- C18. N. Medvidovic and D.S. Rosenblum, "Domains of Concern in Software Architectures and Architecture Description Languages", *Proc. USENIX Conf. Domain-Specific Languages (DSL '97)*, Santa Barbara, CA, Oct. 1997, pp. 199–212.
- C17. D.S. Rosenblum and G. Rothermel, "A Comparative Study of Regression Test Selection Techniques", *Proc. IEEE Computer Society 2nd Int'l Workshop on Empirical Studies of Software Maintenance (WESS-2)*, Bari, Italy, Oct. 1997, pp. 89–94.
- C16. D.S. Rosenblum and A.L. Wolf, "A Design Framework for Internet-Scale Event Observation and Notification", *Proc. Sixth European Software Engineering Conf./ACM SIGSOFT '97 Fifth Symp. Foundations of Software Engineering (ESEC/FSE '97)*, Zürich, Switzerland, Sep. 1997, pp. 344–360. **Winner of the 2008 ACM SIGSOFT Impact Paper Award.**
- C15. D.S. Rosenblum and E.J. Weyuker, "Lessons Learned from a Regression Testing Case Study", *Proc. IEEE Computer Society 1st Int'l Workshop on Empirical Studies of Software Maintenance (WESS-1)*, Monterey, CA, Nov. 1996, pp. 41–43.
- C14. D.S. Rosenblum and E.J. Weyuker, "Predicting the Cost-Effectiveness of Regression Testing Strategies", *Proc. ACM SIGSOFT '96 Fourth Symp. Foundations of Software Engineering (FSE-4)*, San Francisco, CA, Oct. 1996, pp. 118–126.
- C13. N.S. Barghouti and D.S. Rosenblum, "A Case Study in Modeling a Human-Intensive, Corporate Software Process", *Proc. 3rd Int'l Conf. Software Process (ICSP-3)*, Reston, VA, Oct. 1994, pp. 99–110.
- C12. P.T. Devanbu, D.S. Rosenblum and A.L. Wolf, "Automated Construction of Testing and Analysis Tools", *Proc. 16th Int'l Conf. Software Engineering (ICSE-16)*, Sorrento, Italy, May 1994, pp. 241–250.
- C11. Y.-F. Chen, D.S. Rosenblum and K.-P. Vo, "TestTube: A System for Selective Regression Testing", *Proc. 16th Int'l Conf. Software Engineering (ICSE-16)*, Sorrento, Italy, May 1994, pp. 211–220.

- C10. A.L. Wolf and D.S. Rosenblum, "Process-Centered Environments (Only) Support Environment-Centered Processes", *Proc. 8th Int'l Software Process Workshop (ISPW-8)*, Schloß Dagstuhl, Germany, Mar. 1993, pp. 148–149.
- C9. A.L. Wolf and D.S. Rosenblum, "A Study in Software Process Data Capture and Analysis", *Proc. 2nd Int'l Conf. Software Process (ICSP-2)*, Berlin, Germany, Feb. 1993, pp. 115–124.
- C8. D.S. Rosenblum, "Towards a Method of Programming with Assertions", *Proc. 14th Int'l Conf. Software Engineering (ICSE-14)*, Melbourne, Australia, May 1992, pp. 92–104. **Winner of the 2002 ICSE Most Influential Paper Award.**
- C7. D.S. Rosenblum and B. Krishnamurthy, "An Event-Based Model of Software Configuration Management", *Proc. 3rd ACM Int'l Workshop on Software Configuration Management (SCM-3)*, Trondheim, Norway, Jun. 1991, pp. 94–97.
- C6. D.S. Rosenblum and A.L. Wolf, "Representing Semantically Analyzed C++ Code with REPRISE", *Proc. Third USENIX C++ Conf.*, Washington, DC, Apr. 1991, pp. 119–134.
- C5. B. Krishnamurthy and D.S. Rosenblum, "An Event-Action Model of Computer-Supported Cooperative Work: Design and Implementation", *Proc. IFIP Int'l Workshop on Computer Supported Cooperative Work*, Berlin, Germany, Apr. 1991, pp. 132–145.
- C4. D.S. Rosenblum and D.C. Luckham, "Testing the Correctness of Tasking Supervisors with TSL Specifications", *Proc. ACM SIGSOFT '89 3rd Symp. Software Testing, Analysis and Verification (TAV '89)*, Key West, FL, Dec. 1989, pp. 187–196.
- C3. D.S. Rosenblum, S. Sankar and D.C. Luckham, "Concurrent Runtime Checking of Annotated Ada Programs", *Proc. 6th Conf. Foundations of Software Technology and Theoretical Computer Science (FSTTCS-6)*, Delhi, India, Dec. 1986, pp. 10–35.
- C2. S. Sankar, D.S. Rosenblum and R.B. Neff, "An Implementation of Anna", *Ada in Use: Proc. 1985 Ada Int'l Conf.*, Paris, France, May 1985, Cambridge University Press, pp. 285–296.
- C1. D.S. Rosenblum, "A Methodology for the Design of Ada Transformation Tools in a DIANA Environment", *Proc. 1984 IEEE Computer Society Conf. Ada Applications and Environments*, St. Paul, MN, Oct. 1984, pp. 63–70.

Other Conference and Workshop Papers

- CO18. D.S. Rosenblum, "The Challenges of Probabilistic Thinking", Abstract of Invited Keynote Talk, *Proc. 19th Int'l Conf. Formal Engineering Methods (ICFEM 2017)*, Springer LNCS 10610, Xi'an, China, Nov. 2017, p.xi.
- CO17. D.S. Rosenblum, "The Power of Probabilistic Thinking", Abstract of Invited Keynote Talk, *Proc. 31st IEEE/ACM Int'l Conf. Automated Software Engineering (ASE 2016)*, Singapore, Sep. 2016, p.3.
- CO16. G.A. Lewis, J. Gray, H. Muccini, N. Nagappan, D. Rosenblum and E. Shihab, "1st International Workshop on the Engineering Mobile-Enabled Systems (MOBS 2013)", Workshop Summary, *Proc. 2013 Int'l Conf. Software Engineering (ICSE 2013)*, San Francisco, CA, USA, May 2013, pp. 1533–1534.
- CO15. J. Cubo, F. Raimondi, M. Sama and D. Rosenblum, "A Model to Design and Verify Context-Aware Adaptive Service Composition", Relevant Work Dissemination Track, *Actas de las XV Jornadas de Ingeniería del Software y Bases de Datos (JISBD 2010)*, 2010 Congreso Español de Informática (CEDI 2010), Valencia, Spain, Sep. 2010, p. 259. Invited contribution based on #C61.
- CO14. A. Bertolino, W. Grieskamp, R. Hierons, Y. Le Traon, B. Legiard, H. Muccini, A. Paradkar, D. Rosenblum and J. Tretmans, "Model-Based Testing for the Cloud", *Proc. Dagstuhl Seminar 10111: Practical Software Testing: Tool Automation and Human Factors*, Schloß Dagstuhl, Germany, Jun. 26, 2010, 11 pp.
- CO13. D.S. Rosenblum, "Software System Scalability: Concepts and Techniques", Abstract of Invited Keynote Talk, *Proc. 2nd India Software Engineering Conf. (ISEC 2009)*, Pune, India, Feb. 2009, p.1.
- CO12. D.S. Rosenblum and A.L. Wolf, "ACM SIGSOFT Impact Paper Award: Reflections and Prospects", Abstract of Invited Plenary Talk, *Proc. 16th ACM SIGSOFT Int'l Symp. Foundations of Software Engineering (FSE 2008)*, Atlanta, GA, USA, Nov. 2008, p. 284. **Invited for presentation of ACM SIGSOFT Impact Paper Award for publication # C16.**

- CO11. M. Jazayeri and D.S. Rosenblum, "Foreword to State-of-the-Art Presentations", *Proc. Joint 11th European Software Engineering Conf. and 15th ACM SIGSOFT Int'l Symp. Foundations of Software Engineering (ESEC/FSE 2007)*, Companion Volume, Dubrovnik, Croatia, Sep. 2007, p. 437.
- CO10. C. Raiciu, D.S. Rosenblum, M. Handley, "Distributed Online Filtering", Poster, *SIGCOMM 2007*, Kyoto, Japan, Aug. 2007, 2 pp.
- CO9. M. Sama and D.S. Rosenblum, "ContextNotifier & TestingEmulator: A Toolkit for Developing Adaptive, Context-Aware Applications", Demonstration, *5th Int'l Conf. Mobile Systems, Applications, and Services (MobiSys 2007)*, San Juan, Puerto Rico, Jun. 2007, 1 pp. Accessible from <http://www.sigmobile.org/mobisys/2007/index.html>
- CO8. D.S. Rosenblum, "Fundamental Research Issues in Software Testing", *Proceedings of a European Commission Workshop on Fundamental Research in Software Engineering*, Brussels, Belgium, Jul. 2005, 2 pp.
- CO7. E.J. Whitehead, Jr., R. Khare, R.N. Taylor, D.S. Rosenblum and M.M. Gorlick, "Architectures, Protocols, and Trust for Info-Immersed Active Networks", *Digest of the DARPA/NIST/NSF Workshop on Research Issues in Smart Computing Environments*, Atlanta, GA, Jul. 1999, 3 pp.
- CO6. D.S. Rosenblum, "Challenges in Exploiting Architectural Models for Software Testing", invited submission, *Proc. NSF/CNR Workshop on the Role of Software Architecture in Testing and Analysis (ROSATEA '98)*, Marsala, Sicily, Jul. 1998, pp. 49–53.
- CO5. D.S. Rosenblum, A.L. Wolf and A. Carzaniga, "Critical Considerations and Designs for Internet-Scale, Event-Based Compositional Architectures", *Digest of the OMG-DARPA-MCC Workshop on Compositional Software Architectures*, Monterey, CA, Jan. 1998, 4 pp.
- CO4. P. Oreizy, N. Medvidovic, R.N. Taylor and D.S. Rosenblum, "Software Architecture and Component Technologies: Bridging the Gap", *Digest of the OMG-DARPA-MCC Workshop on Compositional Software Architectures*, Monterey, CA, Jan. 1998, 3 pp.
- CO3. D.S. Rosenblum, "Automated Monitoring of Component Integrity in Distributed Object Systems", *Digest of the Advanced Topics Workshop of the 3rd USENIX Conf. Object-Oriented Technologies and Systems*, Portland, OR, Jun. 1997, 3 pp.
- CO2. D.S. Rosenblum and A.L. Wolf, "REPRISE: A Representation for Semantically Analyzed C++ Code", *Digest of the ECOOP/OOPSLA '90 Workshop on Object-Oriented Program Development Environments*, Ottawa, Canada, Oct. 1990, 8 pp.
- CO1. D.S. Rosenblum, "Specification-Based Testing of a Concurrent Software System: An Experience Report", *Digest of the ICSE-12 Workshop on Industrial Experience Using Formal Methods*, Nice, France, May 1990, 7 pp.

Media Features

- M29. Irene Tham, "\$43M for New Lab to Bolster Nation's Cyber Security", *The Straits Times*, Oct. 25, 2016, p. B5. Available online at <http://www.straitstimes.com/singapore/43m-for-new-lab-to-bolster-nations-cyber-security> (last accessed Oct. 31, 2016).
- M28. Neo Chai Chin, "NUS, Singtel Set Up New Lab for Cybersecurity Research", *TODAY Online*, Oct. 24, 2016, <http://www.todayonline.com/singapore/nus-singtel-set-new-lab-cybersecurity-research> (last accessed Oct. 31, 2016).
- M27. Kimberly Spykerman, "NUS and Singtel Launch Cybersecurity Lab", with video clip, *Channel NewsAsia*, Oct. 24, 2016, <http://www.channelnewsasia.com/news/singapore/nus-and-singtel-launch-cybersecurity-lab/3230366.html> (last accessed Oct. 31, 2016).
- M26. Eileen Yu, "Singapore University Partners Singtel to Launch \$30M Cybersecurity Lab", *By the Way, ZDNet*, Oct. 24, 2016, <http://www.zdnet.com/article/singapore-university-partners-singtel-to-launch-30m-cybersecurity-lab/> (last accessed Oct. 31, 2016).
- M25. "People of ACM – David S. Rosenblum", Jan. 5, 2016, <http://www.acm.org/articles/people-of-acm/2016/david-s-rosenblum> (last accessed Jan. 6, 2016).
- M24. T.C. Seow, "New Master's Programme for Regional IT Leaders Launched by NUS-ISS", *MIS Asia*, Jul. 27, 2015, <http://mis-asia.com/tech/industries/new-masters-programme-for-regional-it-leaders-launched-by-nus-iss/> (last accessed Dec. 11, 2015).

- M23. T.C. Seow, "New Master's Programme for Regional IT Leaders Launched by NUS-ISS", *Computerworld Malaysia*, Jul. 27, 2015, <http://www.computerworld.com.my/resource/careers/new-masters-programme-for-regional-it-leaders-launched-by-nus-iss/> (last accessed Dec. 11, 2015).
- M22. T.C. Seow, "New Master's Programme for Regional IT Leaders Launched by NUS-ISS", *Computerworld Singapore*, Jul. 27, 2015, <http://www.computerworld.com.sg/tech/careers/new-masters-programme-for-regional-it-leaders-launched-by-nus-iss/> (last accessed Dec. 11, 2015).
- M21. "NUS-ISS, School of Computing Jointly Launch IT Leadership Master's Degree", *Networks Asia*, Jun. 15, 2015, <http://www.networksasia.net/article/nus-iss-school-computing-jointly-launch-it-leadership-masters-degree.1434335275> (last accessed Jun. 16, 2015).
- M20. Felicia Choo, "NUS Ties Up with Swiss Reinsurance Company", *AsiaOne Business*, Jun. 12, 2015, <http://business.asiaone.com/news/nus-ties-swiss-reinsurance-company> (last accessed Dec. 11, 2015).
- M19. Felicia Choo, "NUS Ties Up with Swiss Reinsurance Company", *The Straits Times*, Money Section, Jun. 11, 2015, p. B10.
- M18. "SAP-NUS Collaboration to Help Students Prepare for the Digital Economy", *Networks Asia*, Jun. 10, 2015, <http://www.networksasia.net/article/sap-nus-collaboration-help-students-prepare-digital-economy.1433899583> (last accessed Jun. 10, 2015).
- M17. "NUS, IBM Partner to Offer Watson Cognitive Systems Education in Southeast Asia", *eGov Innovation*, Oct. 16, 2014, <http://enterpriseinnovation.net/article/nus-ibm-partner-offer-watson-cognitive-systems-education-southeast-asia-2119616538> (last accessed Mar. 20, 2015).
- M16. "My Dear Watson", *Convergence Asia*, Oct. 15, 2014, <http://www.convergenceasia.com/story/my-dear-watson> (last accessed Mar. 20, 2015).
- M15. Gabey Goh, "Singapore Deepens Relationship with IBM's Watson", *Digital News Asia*, Oct. 15, 2014, <http://www.digitalnewsasia.com/digital-economy/singapore-deepens-relationship-with-ibm-watson> (last accessed Mar. 20, 2015).
- M14. "IBM and National University of Singapore Partner to Offer Watson Cognitive Systems Education in Southeast Asia", *The Tech Revolutionist*, Oct. 14, 2014, <http://www.thetechrevolutionist.com/2014/10/ibm-and-national-university-of.html> (last accessed Mar. 20, 2015).
- M13. Mohd Hisham, "NUS to Offer Southeast Asia First IBM Watson-Based Cognitive Education System", *The Rojak Place*, Oct. 14, 2014, <http://mhisham.org/2014/10/14/nus-to-offer-southeast-asia-first-ibm-watson-based-cognitive-education-system/> (last accessed Mar. 20, 2015).
- M12. Nurdianah Md Nur, "IBM Watson to Help Singapore Deliver Better Advice to Its Citizens", *MIS Asia*, Oct. 14, 2014, <http://www.mis-asia.com/resource/applications/ibm-watson-to-help-singapore-deliver-better-advice-to-its-citizens/> (last accessed Mar. 20, 2015).
- M11. Joy Tang, "IBM and NUS to Offer Watson Cognitive Systems Education in Southeast Asia", *TechTrade Asia*, Oct. 14, 2014, <http://www.techtradeasia.info/2014/10/ibm-and-nus-to-offer-watson-cognitive.html> (last accessed Mar. 20, 2015).
- M10. Nurdianah Md Nur, "NUS to Offer IBM Watson Cognitive Systems Education from Next Year", *Computerworld Singapore*, Oct. 14, 2014, <http://www.computerworld.com.sg/resource/applications/nus-to-offer-ibm-watson-cognitive-systems-education-from-next-year/> (last accessed Mar. 20, 2015).
- M9. Nurdianah Md Nur, "NUS to Offer IBM Watson Cognitive Systems Education from Next Year", *Computerworld Malaysia*, Oct. 14, 2014, <http://www.computerworld.com.my/resource/management-and-careers/nus-to-offer-ibm-watson-cognitive-systems-education-from-next-year/> (last accessed Mar. 20, 2015).
- M8. Nurdianah Md Nur, "NUS to Offer IBM Watson Cognitive Systems Education from Next Year", *CIO Asia*, Oct. 14, 2014, <http://www.cio-asia.com/resource/applications/nus-to-offer-ibm-watson-cognitive-systems-education-from-next-year/> (last accessed Mar. 20, 2015).
- M7. Sandra Davie, "Computing Is Cool Again—More and Better Students Apply for Courses in NUS", *The Straits Times*, Jul. 22, 2014, pp. A2–A3. Available online at <http://www.straitstimes.com/singapore/education/computing-is-cool-again-more-and-better-students-apply-for-courses-in-nus> (last accessed Dec. 11, 2015).

- M6. “NUS Collaborates with Japanese Infocomm Company Fuji Xerox on Research Projects”, *AsiaOne*, publication of NUS press release, Jan. 27, 2014, <http://news.asiaone.com/news/singapore/nus-collaborates-japanese-infocomm-company-fuji-xerox-research-projects> (last accessed Dec. 11, 2015).
- M5. Joanna Seow, “NUS Collaborates with Japanese Infocomm Company Fuji Xerox on Research Projects”, *The Straits Times*, Jan. 27, 2014, <http://www.straitstimes.com/singapore/nus-collaborates-with-japanese-infocomm-company-fuji-xerox-on-research-projects> (last accessed Dec. 11, 2015).
- M4. Jamie Yap, “Software Design Cannot Be Neglected”, *ZDNet Asia*, May 9, 2012, <http://www.zdnetasia.com/software-design-cannot-be-neglected-62304732.htm> (last accessed May 14, 2012).
- M3. Don Udell, “Playing the Internet Scales”, *InfoWorld*, Mar. 7, 2003, <http://www.infoworld.com/article/2681353/application-development/playing-the-internet-scales.html> (last accessed Dec. 11, 2015).
- M2. Don Clark, “PreCache Survives, With Help From Sony”, *The Wall Street Journal*, Vol.CCXLI, No. 1, Jan. 2, 2003, pp. A11–A12. Available online at <http://www.wsj.com/articles/SB1041462709120112473> (last accessed Dec. 11, 2015).
- M1. William E. Suydam, Jr., “Need for Software Testing Moves into Spotlight”, *Computer Design*, Vol. 24, No. 15, Nov. 1, 1985, pp. 54–62. Available online at <http://www.wesuydam.com/needForSoftwareTestingNew.htm> (last accessed Dec. 11, 2015).

Theses and Selected Technical Reports

- T12. L. Liu, Y. Yang, L.N. Govindarajan, S. Wang, B. Hu, L. Cheng, D.S. Rosenblum, *An Interval-Based Bayesian Generative Model for Human Complex Activity Recognition*, arXiv e-Print arXiv:1701.00903v1 [stat.ML], Jan. 4, 2017, 12.pp. Accessible from <https://arxiv.org/abs/1701.00903>
- T11. A. Carzaniga, D.S. Rosenblum and A.L. Wolf, *Content-Based Addressing and Routing: A General Model and its Application*, Department of Computer Science, University of Colorado at Boulder, Technical Report CU-CS-902-00, Jan. 2000.
- T10. N. Medvidovic, D.S. Rosenblum and R.N. Taylor, *A Type Theory for Software Architectures*, Department of Information and Computer Science, University of California, Irvine, Technical Report UCI-ICS-98-14, Apr. 1998, 10 pp.
- T9. D.S. Rosenblum, *Adequate Testing of Component-Based Software*, Department of Information and Computer Science, University of California, Irvine, Technical Report UCS-ICS-97-34, Aug. 1997, 9 pp.
- T8. D.S. Rosenblum, *Visualization of Informally Defined Software Processes*, AT&T Bell Laboratories Technical Report, Nov. 1992, 3 pp.
- T7. D.S. Rosenblum, *Petri Net Case Study*, in J.J. Kenney and W. Mann (eds.), *Anna Package Specification: Case Studies*, Technical Report CSL-TR-91-496, Computer Systems Laboratory, Stanford University, Oct. 1991, pp. 87–94.
- T6. D.S. Rosenblum, *Towards Petri Net-Based Analysis of Behavior Specifications for Concurrent Programs*, AT&T Bell Laboratories Technical Report, Jan. 1991, 7 pp.
- T5. P. Frankl and D.S. Rosenblum, *Using Annotations for Selection and Evaluation of Software Test Data*, AT&T Bell Laboratories Technical Report, Oct. 1989, 6 pp.
- T4. D.S. Rosenblum, *Event-Based Semantics of Concurrent Programming Languages*, AT&T Bell Laboratories Technical Report, Sep. 1988, 24 pp.
- T3. D.S. Rosenblum, *Design and Verification of Distributed Tasking Supervisors for Concurrent Programming Languages*, **Ph.D. Dissertation**, Technical Report CSL-TR-88-357, Computer Systems Laboratory, Stanford University, Mar. 1988, 218 pp.
- T2. D.S. Rosenblum and E.W. Mayr, *Simulation of an Ultracomputer with Several ‘Hot Spots’*, Technical Report STAN-CS-86-1119, Dept. of Computer Science, Stanford University, Jun. 1986, 33 pp.
- T1. D.S. Rosenblum, *An Implementation of the IEEE Standard for Binary Floating Point Arithmetic for the Motorola 6809 Microprocessor*, **M.S. Thesis**, Dept. of Computer Sciences, North Texas State University, Aug. 1983, 83 pp.

Presentations and Tutorials

Keynote Talks and Other Plenary Conference Talks

- “The Challenges of Probabilistic Thinking”, 19th International Conference on Formal Engineering Methods (ICFEM 2017), Xi’an, China, Nov. 2017
- “The Power of Probabilistic Thinking”, 31st ACM/IEEE International Conference on Automated Software Engineering (ASE 2017), Singapore, Sep. 2016
- “Career Management”, ICSE 2014 New Faculty and Researcher Symp. (ICSE NFRS 2014), Hyderabad, India, Jun. 2014
- “Probability and Uncertainty in Software Engineering”, 2013 National Software Application Conf. (NASAC 2013), Tianjin, China, Nov. 2013
- “Whither Software Engineering Research?”, 19th Asia-Pacific Software Engineering Conf. (APSEC 2012), Hong Kong, China, Dec. 2012
- “Software System Scalability: Concepts and Techniques”, 2nd India Software Engineering Conference (ISEC 2009), Pune, India, Feb. 2009
- “ACM SIGSOFT Impact Paper Award: Reflections and Prospects” (with Alexander L. Wolf), 2008 ACM SIGSOFT Impact Paper Award, 16th ACM SIGSOFT Int’l Symp. Foundations of Software Engineering (FSE 2008), Atlanta, GA, USA, Nov. 2008
- “Scalability: What It Is and How to Analyse It”, XXI Sympósio Brasileiro de Engenharia de Software (SBES 2007), João Pessoa, Paraíba, Brazil, Oct. 2007
- “Analysis of Software Architectures: Achievements and Challenges”, 18th Int’l Workshop on Algebraic Development Techniques (WADT ’06), La Roche en Ardenne, Belgium, Jun. 2006
- “Wide-Area Publish/Subscribe: A Re-Assessment”, 2005 Int’l Symp. Distributed Objects and Applications (DOA 2005), Agia Napa, Cyprus, Oct. 2005
- “Some Open Problems in Publish/Subscribe Networking”, Second Int’l Workshop on Distributed Event-Based Systems (DEBS ’03), San Diego, CA, USA, Jun. 2003
- “Assertions a Decade Later”, ICSE ’92 Most Influential Paper Award, 2002 Int’l Conf. Software Engineering, Orlando, FL, May 2002
- “Internet Scale Event Notification”, Keynote Talk at Workshop on Internet Scale Event Notification, Irvine, CA, Jul. 1998
- “An Efficient Communication Kernel for Distributed Ada Runtime Tasking Supervisors”, Best Graduate Student Paper Award, ACM SIGAda/AdaJUG Joint Meeting, Hollywood, FL, Jan. 1987

Other Invited Conference and Workshop Talks and Panels

- Panelist, “ICSE 2016 Town Hall on ICSE 2017 Submission Limit”, 38th Int’l Conf. Software Engineering (ICSE 2016), Austin, TX, USA, May 2016
- “A Brief Look at Probabilistic Model Checking”, Dagstuhl Seminar #15017 on Formal Foundations for Networking, Schloß Dagstuhl, Germany, Feb. 2015
- “How Is Computer Science Changed by Other Disciplines?”, Panel “Interdisciplinarity: The Future of Computer Science?”, Microsoft Research Asia Faculty Summit 2014, Beijing, China, Oct. 2014
- Panelist, “Does Infrastructure Really Matter When Moving to the Front Lines?”, IBM Technology Conference & Expo 2014, Singapore, Jul. 2014
- “The Mother of All Disciplines?”, Pre-Summit Workshop for Deans, Department Chairs and Research Directors, 9th European Computer Science Summit (ECSS 2013), Amsterdam, The Netherlands, Oct. 2013
- “A Random Walk Down Memory Lane”, IEEE Computer Society Fellows’ Distinguished Public Forum, Biopolis, Singapore, Oct. 2013
- “Felicitous Computing”, NUS School of Computing Annual Research Workshop, NUS Research Institute, Suzhou, China, Jan. 2013

- “Applications and Abstractions: A Cautionary Tale”, DIMACS Working Group on Abstractions for Network Services, Architecture, and Implementation, Rutgers University, Piscataway, NJ, USA, May 2012
- “Felicitous Computing”, 5th Annual NUS School of Computing-China Research Workshop, National University of Singapore, Singapore, Jan. 2012
- “High Confidence Ubiquitous Computing Systems”, 2011 Int’l Symp. High Confidence Software (ISHCS 2011), Beijing, China, Dec. 2011
- Panelist, “Future of Software Research in Asia-Pacific/China Region”, 2011 Int’l Symp. High Confidence Software (ISHCS 2011), Beijing, China, Dec. 2011
- Panelist, “Regression Testing”, Dagstuhl Seminar #10111 on Practical Software Testing: Tool Automation and Human Factors, Schloß Dagstuhl, Germany, Mar. 2010
- Panellist, “Academic-Industrial Cooperation in Software Engineering”, XXI Sympósio Brasileiro de Engenharia de Software (SBES 2007), João Pessoa, Paraíba, Brazil, Oct. 2007
- “The Software Engineering Impact Project: Testing & Analysis” (with Lori A. Clarke), 2006 Int’l Symp. Software Testing and Analysis (ISSTA 2006), Portland, ME, USA, Jul. 2006
- “Testability and Reliability of Component-Based Software”, Pre-ICSE 2006 Workshop on Int’l Software Engineering Cooperation, Shanghai, China, Oct. 2004
- Panellist on Panel “Distributed Event-Base Processing in a Bigger Context”, Second Int’l Workshop on Distributed Event-Based Systems (DEBS ’03), San Diego, CA, Jun. 2003
- “Publish/Subscribe Architectures: Attractions, Problems and Lessons”, Panel “Event-Based Systems and Software Architectures: Out of the Shadows and Into the Mainstream”, 1st Annual Research Forum, UC Irvine Institute for Software Research, Irvine, CA, Jun. 2002
- Panellist, “Who Needs Doctors? Reporting from the Doctoral Workshop”, 22nd Int’l Conf. Software Engineering (ICSE 2000), Limerick, Ireland, Jun. 2000
- “Challenges in Exploiting Architectural Models for Software Testing”, NSF/CNR Int’l Workshop on the Role of Software Architecture in Testing and Analysis (ROSATEA), Marsala, Sicily, Italy, Jul. 1998
- “An Overview of Selective Regression Testing”, Software Engineering Tools and Technologies (SETT) Java Testing Workshop, Irvine, CA, Nov. 1996

Inaugural Lecture as Professor of Software Systems, University College London

- “Scalability in Software Systems Engineering: The Good, the Bad, and the Ugly”, 13 Dec. 2004 (with Vote of Thanks by Alexander L. Wolf)

Other Invited Talks

- “The Power and Challenges of Probabilistic Reasoning for Software Engineering”, Faculty of Computer and Information Sciences, Hosei University, Feb. 2018
- “Uncertainty in Computer Systems: Problems and Results”, Department of Computer Science, University of Southern California, Jan. 2017
- “Jogging While Driving, and Other Software Engineering Research Problems”, Department of Computer Science Distinguished Lecture Series, Univ. of Illinois at Chicago, Apr. 2014
- “Felicitous Computing”, Institute for Software Research (ISR) Distinguished Speaker Series, University of California, Irvine, Apr. 2013
- “Scalability of Software Systems: Concepts and Techniques”, Univ. de Buenos Aires, Jul. 2012
- “Automated Fault Identification in Context-Aware Adaptive Applications”, National University of Singapore, Aug. 2010
- “Automated Fault Identification in Context-Aware Adaptive Applications”, University of Texas at Dallas, Jun. 2010
- “Scalability: What It Is and How to Analyse It”, Univ. of Massachusetts–Amherst, Mar. 2008
- “Predicting the Reliability of Concurrent Component-Based Software”, Università della Svizzera Italiana, Lugano, Switzerland, Dec. 2005

"Predicting the Reliability of Concurrent Component-Based Software", Brunel University, London, UK, Nov. 2005

"Predicting the Reliability of Concurrent Component-Based Software", Georgia Institute of Technology, Atlanta, GA, USA, Jun. 2005

"Publish/Subscribe Networking: Open Problems and Recent Results", University of Nebraska-Lincoln, Lincoln, NE, USA, Mar. 2005

"Predicting the Reliability of Concurrent Component-Based Software", University of Nebraska-Lincoln, Lincoln, NE, USA, Mar. 2005

"Publish/Subscribe Networking: Open Problems and Recent Results", Intel Research Cambridge, Cambridge, UK, Mar. 2005

"Predicting the Reliability of Concurrent Component-Based Software", Università dell'Aquila, L'Aquila, Italy, Mar. 2005

"Two Decades of Software Systems Research", University College London, UK, Oct. 2003

"Publish/Subscribe Networking: Concepts, Results, Open Problems", Università della Svizzera Italiana, Lugano, Switzerland, Jun. 2003

"Publish/Subscribe Networking: Concepts, Results, Open Problems", University College London, London, UK, May 2003

"Publish/Subscribe Networking: Concepts, Results, Open Problems", University of Southern California, Los Angeles, CA, May 2003

"Reconciling Software Architecture Models and Software Component Standards", Politecnico di Milano, Milan, Italy, Jan. 1999

"Reconciling Software Architecture Models and Software Component Standards", Technische Universität Wien, Vienna, Austria, Jan. 1999

"Bringing Software Architecture into the Software Development Process", Southern California Process Improvement Network (SPIN), Irvine, CA, Jun. 1998

"Internet-Scale Event Observation and Notification", Bay Area Round Table (BART), Palo Alto, CA, Feb. 1998

"Validation of Distributed Component-Based Software Systems", Bay Area Round Table (BART), Palo Alto, CA, Aug. 1997

"Predicting the Cost-Effectiveness of Regression Testing Methods", University of California, Irvine, Irvine, CA, May 1996

"A Specification-Based Approach to Automated Fault Detection", University of Colorado at Boulder, Boulder, CO, Apr. 1996

"A Specification-Based Approach to Automated Fault Detection", University of Maryland, College Park, MD, Mar. 1996

"A Specification-Based Approach to Automated Fault Detection", Columbia University, New York, NY, Feb. 1996

"Experience with a Selective Regression Testing System", Clemson U., Clemson, SC, Oct. 1995

"Software Specification", Columbia University, New York, NY, Oct. 1995

"Software Specification", Rutgers University, New Brunswick, NJ, Feb. 1995

"Experience with a System for Selective Regression Testing", Polytechnic University, Brooklyn, NY, Oct. 1994

"Software Research at Bell Labs", Stanford University, Stanford, CA, Aug. 1994

"Testtube: A System for Selective Regression Testing", Siemens Corporate Research, Princeton, NJ, Mar. 1994

"Specifying and Developing Programs with Anna", New York University, New York, NY, Mar. 1991

- “Validation of Tasking Supervisors with TSL Specifications”, Polytechnic University, Brooklyn, NY, Nov. 1989
- “Automated Testing of Distributed Ada Tasking Supervisors”, AT&T Bell Laboratories, Holmdel, NJ, Sep. 1987
- “Automated Testing of Distributed Ada Tasking Supervisors”, Software Engineering Institute, Carnegie Mellon University, Pittsburgh, PA, May 1987
- “An Efficient Distributed Implementation of Ada”, Los Angeles Chapter of ACM SIGAda, Redondo Beach, CA, May 1987
- “Automated Testing of Distributed Ada Tasking Supervisors”, Bell Communications Research, Piscataway, NJ, Apr. 1987
- “Automated Testing of Distributed Ada Tasking Supervisors”, IBM T.J. Watson Research Center, Hawthorne, NY, Apr. 1987
- “A Distributed Implementation of Ada”, Supercomputing Research Center, Institute for Defense Analyses, Lanham, MD, Apr. 1986

Conference Tutorials

- Scalability of Software Systems: Concepts and Techniques*, 5th IFIP TC2 Summer School & 2nd ACM/IEEE ICSE 2010 Warm-Up Workshop (WUP 2009), Strand, South Africa, Apr. 2009
- Formal Software Engineering* (with Alexander L. Wolf), ACM SIGSOFT '95 Third Symp. Foundations of Software Engineering, Washington, DC, USA, Oct. 1995
- Formal Software Engineering* (with Alexander L. Wolf), ACM SIGSOFT '94 Second Symp. Foundations of Software Engineering, New Orleans, LA, USA, Dec. 1994

Other Conference Presentations

- Int'l Conf. Software Engineering (ICSE): 1992, 1994, 2007
- ACM SIGSOFT '96 Fourth Symp. Foundations of Software Engineering (FSE): 1996
- SIGSOFT '89: 3rd Symp. Software Testing, Analysis and Verification (TAV): 1989
- IEEE Computer Society 1984 Conf. Ada Applications and Environments (AAE): 1984

Conference and Workshop Committees

Steering Committees

- Int'l Conf. Software Engineering (ICSE), 2001–2007, 2009–present (Chair 2004–2007)
- Int'l Symp. Software Testing and Analysis (ISSTA), 2005–2014 (Chair 2007–2008)
- European Joint Conf. Theory and Practice of Software (ETAPS), 2008–2011
- Int'l Workshop and Conf. Distributed Event-Based Systems (DEBS), 2006–2009
- Int'l Conf. Model Driven Engineering Languages and Systems (MoDELS/UML), 2005–2009
- European Software Engineering Conf. (ESEC), 2005–2009
- Workshop on Program Analysis for Software Tools and Engineering (PASTE), 2005–2009
- Int'l Workshop on Software and Performance (WOSP), 2005–2009
- Int'l Symp. Automated and Analysis-Driven Debugging (AADEBUG), 2005–2006

Conference General Chair

- 2007 Int'l Symp. Software Testing and Analysis (ISSTA 2007)

Program or Track Chair/Co-Chair of International Events

- 50th Anniversary of Software Engineering, 40th Int'l Conf. Software Engineering (ICSE 2018)
- Technical Briefings, 39th Int'l Conf. Software Engineering (ICSE 2017)
- Visions of 2025 and Beyond Track, 38th Int'l Conf. Software Engineering (ICSE 2016)
- ICSE 2004 Most Influential Paper, 36th Int'l Conf. Software Engineering (ICSE 2014)
- ICSE 2013 Int'l Workshop on the Engineering of Mobile-Enabled Systems (MOBS 2013)
- ETAPS 2010 13th Int'l Conf. Fundamental Approaches to Software Engineering (FASE 2010)
- State-of-the-Art Presentations, Joint 11th European Software Engineering Conf. and 15th ACM SIGSOFT Int'l Symp. Foundations of Software Engineering (ESEC/FSE 2007)
- Doctoral Symposium, 29th Int'l Conf. Software Engineering (ICSE 2007)
- Conference Coordinator, Social Programs, 28th Int'l Conf. Software Engineering (ICSE 2006)
- State-of-the-Practice Track, 27th Int'l Conf. Software Engineering (ICSE 2005)

26th Int'l Conf. Software Engineering (ICSE 2004)
ACM SIGSOFT Eighth Int'l Symp. Foundations of Software Engineering (FSE 2000)
Workshop on Evaluating Software Architectural Solutions (WESAS 2000)
Research Demos and Posters, 22nd Int'l Conf. Software Engineering (ICSE 2000)
Publicity, ACM SIGSOFT Sixth Int'l Symp. Foundations of Software Engineering (FSE 1998)
Publicity, 17th Int'l Conf. Software Engineering (ICSE 1995)

Program Committee Member (Series)

Int'l Conf. Software Engineering (ICSE): 1997, 2000, 2001, 2002, 2003, 2005, 2011, 2012, 2013
SIGSOFT Int'l Symp. Foundations of Software Engineering (FSE): 1998, 2004, 2008, 2010, 2018
European Software Engineering Conf. (ESEC/FSE): 1999, 2001, 2005
SIGSOFT Int'l Symp. Software Testing & Analysis (ISSTA): 1994, 1996, 2004, 2008, 2010
Int'l Workshop/Conf. Distributed Event-Based Systems (DEBS): 2002, 2003, 2004, 2006, 2007
Int'l Conf. Automated Software Engineering (ASE): 1998, 1999
SIGSOFT Symp. Component-Based Software Engineering (CBSE): 2011, 2012

Program Committee Member (Other)

New and Emerging Ideas Track, 2018 Int'l Conf. Software Architecture (ICSA 2018)
First International Workshop on Establishing a Community-Wide Infrastructure for Architecture-Based Software Engineering (ECASE 2017)
12th Int'l Symp. Software Engineering for Adaptive and Self-Managing Systems (SEAMS 2017)
Doctoral Symposium, 37th Int'l Conf. Software Engineering (ICSE 2015)
Advisory Committee, 2nd Int'l Conf. Big Data Analytics in Healthcare (BDAH 2014)
First Int'l Conf. Mobile Software Engineering and Systems (MOBILESoft 2014)
Tutorial and Technical Briefings Track, 36th Int'l Conf. Software Engineering (ICSE 2014)
FSE 2012 New Ideas and Emergent Results Track
4th Int'l IEEE Conferences on Software – Science, Technology and Engineering (SwSTE 2010)
2009 Workshop on Architecting Dependable Systems (WADS 2009)
2nd ACM/IEEE ICSE 2010 Warm-Up Workshop (WUP 2009)
FSE 2008 New Software Engineering Faculty Symposium
7th ACM Workshop on Software and Performance (WOSP 2008)
Second Int'l Conf. Tests and Proofs (TAP 2008)
Doctoral Symposium, ACM 2008 Int'l Symp. Software Testing and Analysis (ISSTA 2008)
Doctoral Symposium, 30th Int'l Conf. Software Engineering (ICSE 2008)
ETAPS 2008 11th Int'l Conf. Fundamental Approaches to Software Engineering (FASE 2008)
3rd Int'l IEEE Conferences on Software – Science, Technology and Engineering (SwSTE 2007)
Most Promising New Work Track, 2007 Haifa Verification Conference (HVC 2007)
6th ACM Workshop on Software and Performance (WOSP 2007)
2006 Int'l Symp. Trustworthy Global Computing (TGC 2006)
4th Int'l Workshop on Distributed and Mobile Collaboration (DMC 2006)
Workshop on Web Services—Modeling and Testing (WS-MaTe 2006)
Doctoral Symposium, ACM/IFIP/USENIX 6th Int'l Middleware Conf. (Middleware 2005)
5th Int'l Workshop on Software Engineering and Middleware (SEM 2005)
Fifth Working IFIP/IEEE Conf. Software Architecture (WICSA 2005)
UML 2004 Workshop on Software Architecture Description and UML
3rd Int'l Workshop on Software Engineering and Middleware (SEM 2002)
2nd Int'l Workshop on Engineering Distributed Objects (EDO 2000)
Doctoral Symposium, 22nd Int'l Conf. Software Engineering (ICSE 2000)
Second USENIX Conf. Domain-Specific Languages (DSL '99)
ICSE '99 Workshop on Engineering Distributed Objects (EDO '99)
First Working IFIP Conf. Software Architecture (WICSA1)
Eighth Annual California Software Symposium (CSS '98)
DEXA '98 Int'l Workshop on Large-Scale Software Composition
ISSTA '98 Second Workshop on Formal Methods in Software Practice
Seventh Annual California Software Symposium (CSS '97)
Second Int'l Workshop on Empirical Studies of Software Maintenance (WESS '97)
ISSTA '96 Workshop on Formal Methods in Software Practice
8th Int'l Workshop on Software Specification and Design (IWSSD-8)
1993 Conf. Computer Software and Applications (COMPSAC '93)
Tutorials, 14th Int'l Conf. Software Engineering (ICSE-14)

Selected Reviewer Service

Computer Science/Information Technology Panel, Research Assessment Exercise (RAE) 2014, University Grants Committee (UGC), Hong Kong
IEEE Computer Society Fellows Committee
IEEE Senior Member Review Panel (UK and Republic of Ireland Section)
The Royal Society
International Grant Assessments Panel
International Fellowships Panel
Engineering and Physical Sciences Research Council (EPSRC)
Review Panel, Technology Programme, Computer Science, Nov. 2005
Prioritisation Panel, Information and Communications Technology Programme, Jun. 2008
Peer Review College, 2006–2009
National Science Foundation (NSF) Review Panels
Computer and Information Science and Engineering (CISE) Directorate, May 2000
Computer and Information Science and Engineering (CISE) Directorate, Feb. 1997
Vienna Science and Technology Fund (WWTF)
Jury Member, Information and Communication Technology (ICT) Call, 2010

Hosting of Extended Visits by Academics

National University of Singapore

Anthony I. Wasserman, Carnegie Mellon University West, 2014
Carlo Ghezzi, sabbatical leave from Politecnico di Milano, 2014
Mehdi Jazayeri, sabbatical leave from Università della Svizzera Italiana, 2015

University College London

Richard N. Taylor, sabbatical leave from University of California, Irvine, 2005
Sebastian Elbaum, sabbatical leave from University of Nebraska–Lincoln, 2006–2007
Leon J. Osterweil, sabbatical leave from University of Massachusetts–Amherst, 2007
Lori A. Clarke, sabbatical leave from University of Massachusetts–Amherst, 2007

Doctoral and Post-Doctoral Supervision and Examination

In addition to doctoral and post-doctoral supervision, I have supervised individual and group projects, theses and internships for over one hundred Bachelors and Masters Students

Post-Doctoral Supervisor *University of California, Irvine*
Elisabetta Di Nitto, 1998; now at Politecnico di Milano

University College London

Arun Mukhija, 2006–2009; now at Sunrise Communications AG
Andrew Dingwall-Smith, 2006–2007; now at Message Automation
Genáina Rodrigues, 2008; now Professora Adjunta, Universidade de Brasília
Franco Raimondi, 2008–2009; now Senior Lecturer, Middlesex U.
Sonia Ben Mokhtar, 2009; now Researcher at CNRS

National University of Singapore

Darren Carlson, 2013–2016
Guoxin Su, 2013–2017
Li Liu, 2013–2016
Omar al-Bataineh, 2018–present

Ph.D. Supervisor *University College London*
Jorge Luis Ortega Arjona, 2007; thesis *Architectural Patterns for Parallel Programming – Models for Performance Estimation*; now Professor at Universidad Nacional Autónoma de México
Genáina Nunes Rodrigues, 2008; thesis *A Model Driven Approach for Software Reliability Prediction*; now Associate Professor at Universidade de Brasília
Ana Letícia De Cerqueira Leite Duboc, 2010; thesis *A Framework for the Characterization and Analysis of Software Systems Scalability*; now Chief Technology Officer at Eticas Research & Consulting and Professor at Universidade do Estado do Rio de Janeiro

Costin Raiciu, 2011; thesis *ROAR: Increasing the Flexibility and Performance of Distributed Search*; now Associate Professor at Universitatea Politehnica din Bucuresti
 Michele Sama, 2011; thesis *Context-Driven Methodologies for Context-Aware and Adaptive Systems*; now Vice President of Engineering at Gluru
 Fokion Zervoudakis, 2014; thesis *Cascading Verification: An Integrated Method for Domain-Specific Model Checking*; now Senior Software Engineer at Broadridge Financial Solutions
 Panagiotis Papakos, 2014; thesis *Volare Mobile Context-aware Adaptation for the Cloud*; now Software Engineer at RateSetter

National University of Singapore

Ratul Saha, 2017 (co-supervised with P.S. Thiagarajan); thesis *Quantitative Model Checking of Distributed Probabilistic Systems*
 Yongpo Jia, 2017; thesis *Multi-Source Learning from Social Network Data*; now Data Analytics Professional at HeBei Iron & Steel Group (HBIS Group)
 Marc Sven Brünink, 2018; thesis *Analyzing the Behavior of Deployed Software*
 Ye Liu, 2018; thesis *User Attribute Learning from Social Media and Ubiquitous Sensors*
 Yamilet Rosario Serrano Llerena, expected 2018
 Nirandika Wanigasekara, expected 2018
 Thilina Thanthriwatta, expected 2019
 Kun Ouyang, expected 2019

Ph.D. Robert Chatley, Imperial College London, 2005
 External Octavian Patrascoiu, University of Kent, 2005
 Examiner Ashok Argent-Katwala, Imperial College London, 2006
 Alexander Buckley, Imperial College London, 2006
 William Heaven, Imperial College London, 2007
 Lucio Duarte, Imperial College London, 2007
 Gürcan Güleşir, De Universiteit Twente, 2008
 Matteo Migliavacca, Politecnico di Milano, 2008
 Konstantinos Adamopoulos, M.Phil., King's College London, 2008
 Eskinder Asmare, Imperial College London, 2009
 Paolo Di Benedetto Università dell'Aquila, 2010
 Xiaoyuan Xie, Swinburne University of Technology, 2012

Ph.D. Jonathan E. Cook, University of Colorado at Boulder, 1996
 Committee Gregory A. Bolcer, University of California, Irvine, 1998
 Member Nenad Medvidovic, University of California, Irvine, 1998
 Juei Chang, University of California, Irvine, 1999
 David M. Hilbert, University of California, Irvine, 1999
 Jason E. Robbins, University of California, Irvine, 1999
 Peyman Oreizy, University of California, Irvine, 2000
 E. James Whitehead, Jr. , University of California, Irvine, 2000
 Roy T. Fielding, University of California, Irvine, 2000
 Michael Kantor, University of California, Irvine, 2001
 Chang Liu, University of California, Irvine, 2002
 Peter Kammer, University of California, Irvine, 2004
 Antonio Carzaniga, Politecnico di Milano, 1998
 Yongzheng Wu, National University of Singapore, 2012
 Jian Zhu, National University of Singapore, 2012
 Marcel Böhme, National University of Singapore, 2014
 Chen Penghe, National University of Singapore, 2015
 Narcisa Andreea Milea, National University of Singapore, 2015
 Limiao Bai, National University of Singapore, 2016
 Zhu Shenggao, National University of Singapore, 2017

Visiting *University College London*
 Ph.D. Javier Cubo, Universidad de Málaga, 2008
 Student

Teaching

North Texas State University

IBM System 370 Assembly Language: Fall 1982 (2 sections), Spring 1983 (2 sections)

Rutgers University

Software Engineering: Spring 1996

University of California, Irvine

Software Architectures, Distributed Systems and Interoperability: Spring 1998, Spring 1999, Fall 1999, Fall 2000

Software Engineering: Fall 1998, Winter 2001

Software Testing and Analysis: Spring 1999

Formal Methods in Software Engineering: Spring 1999, Winter 2001

Software Processes: Fall 1997, Winter 2000

Project in System Design: Spring 1998, Fall 1998

Introduction to Software Engineering: Spring 1997

Systematic Software Construction: Winter 1997

Internet-Scale Software Engineering: Fall 1999

Topics in Distributed Object Computing: Spring 1997

Seminar in Software: Fall 1997

University College London

Database and Information Management Systems: 2004–05

Technology Management and Professional Issues: 2004–05, 2005–06, 2006–07, 2007–08, 2008–09, 2009–10, 2010–11

Advanced Analysis and Design: 2005–06, 2006–07, 2007–08, 2008–09, 2009–10, 2010–11

Software Engineering: 2005–06, 2006–07

Architecture and Design of Large-Scale Software Systems: 2006–07, 2007–08, 2008–09

Validation and Verification: 2007–08, 2008–09, 2009–10

National University of Singapore

Automated Software Validation: 2011–12, 2012–13, 2014–15, 2016–17, 2017–18

Software Engineering Project I: 2012–13

Other University Service

University of California, Irvine

Bay Area Round Table (BART), Irvine Research Unit in Software (IRUS) 1997–1998

Representative Assembly, Academic Senate, 1996–1998

Faculty Advisor for Undeclared/Undecided Undergraduate Students, 1997–1999

University Research Park Advisory Committee, 1998–2001

Council on Educational Policy, 1998–1999

Student Discipline Grievance Review Board, Sep. 10, 1997

ICS Department Software Faculty Search Committee, 1998–1999, 2000–2001

ICS Department Graduate Policy Committee, 2000–2001

ICS Department Graduate Policy and Ph.D. Admissions Committee, 1998–1999

ICS Department Graduate Admissions Committee, 1997–1998

ICS Department Undergraduate Policy Committee, 1997–1998

ICS Department Graduate Policy and Admissions Committee, 1996–1997

University College London

UCLse Centre for Systems Engineering, 2005–2011