

JOHN REGEHR

School of Computing
50 South Central Campus Drive, Rm 3190
University of Utah
Salt Lake City, UT 84112-9205

office +1 801 581 4280
fax +1 801 585 3743
home +1 801 220 0652
regehr@cs.utah.edu
<http://www.cs.utah.edu/~regehr>

EDUCATION

PhD, Computer Science, University of Virginia. Charlottesville, VA. Advisor: Prof. John A. Stankovic.
Thesis title: "Using Hierarchical Scheduling to Support Soft Real-Time Applications on General-Purpose Operating Systems." May 2001.

Masters of Computer Science, University of Virginia. Charlottesville, VA. Advisor: Prof. Paul F. Reynolds.
Project title: "An Isotach Implementation for Myrinet." May 1997.

BS, Computer Science, Kansas State University. Manhattan, KS. Honors advisor: Prof. Masaaki Mizuno.
Honors thesis title: "Operating System Support for the Subsumption Architecture for Mobile Robot Control." May 1995.

BS, Mathematics, Kansas State University. Manhattan, KS. May 1995.

ACADEMIC POSITIONS

Associate Professor, School of Computing, University of Utah, July 2009–present.

Assistant Professor, School of Computing, University of Utah, August 2003–June 2009.

Adjunct Assistant Professor, School of Computing, University of Utah. September 2002–May 2003.

Postdoctoral Fellow, School of Computing, University of Utah. Supervisor: Prof. Jay Lepreau. April 2001–July 2003.

RESEARCH GRANTS

DARPA CRASH program. "Containers for Advanced Adaptive Applications" PI John Regehr, co-PI Eric Eide, PI Partha Pal at BBN. September 2010–August 2014. Approximately \$1,400,000.

DARPA Computer Science Study Group program. "A Cross-Layer Approach for Improving Embedded Software Reliability." PI John Regehr. May 2009–April 2011. \$474,340.

DARPA Computer Science Study Group program. PI John Regehr. March 17 2008–March 16 2009. \$95,989.

National Science Foundation Embedded and Hybrid Systems Program. "Improving Sensor Network Software Reliability through Language, Tool, and OS Co-Design." Award CNS-0615367. PIs John Regehr and Philip Levis (Stanford), co-PI Dawson Engler (Stanford). September 2006–August 2009. Utah award: \$210,000, Stanford award \$360,000.

National Science Foundation Parallel and Distributed Operation Systems Program. "Experimenting with Garbage Collection in an Otherwise Conventional OS." Award CNS-0509526. PI Matthew Flatt, co-PI John Regehr. June 2005–April 2008. \$380,000.

National Science Foundation CAREER Program. “Vertically Integrated Analysis for Embedded Software.” Award CNS-0448047. May 2005–April 2010. \$400,000.

National Science Foundation Embedded and Hybrid Systems Program. “Components and Aspects for Embedded Middleware.” Award CNS-0410285. PIs Matthew Flatt and Raymond Klefstad (UC Irvine), co-PIs Eric Eide and John Regehr. September 2004–August 2007. Utah award: \$360,002, UC Irvine award \$330,000.

National Science Foundation Embedded and Hybrid Systems Program. “Composable Execution Environments: A Foundation for Building Robust Embedded Systems.” Award CCR-0209185. PI Jay Lepreau, co-PI John Regehr. July 2002–June 2005. \$310,000.

COURSES TAUGHT

CS 5460/6460, Operating Systems, Spring 2012. 77 students enrolled. 3 credit hours.

CS 5957, Android Projects, Fall 2011. 13 students enrolled. 3 credit hours.

CS 5460/6460, Operating Systems, Fall 2010. 56 students enrolled. 3 credit hours.

CS/ECE 5785/6785, Advanced Embedded Systems, Fall 2010. 29 students enrolled. 3 credit hours.

CS/ECE 5780/6780, Embedded Systems, Spring 2009. 50 students enrolled. 3 credit hours.

CS/ECE 5785/6785, Advanced Embedded Systems, Fall 2008. 20 students enrolled. 3 credit hours.

CS 6470, Advanced Compilers, Spring 2008. 7 students enrolled. 3 credit hours.

CS/ECE 5785/6785, Advanced Embedded Systems, Fall 2007. 26 students enrolled. 3 credit hours.

CS 7933, Seminar on Ultra Large Scale Systems, Fall 2007. 5 students enrolled. 1 credit hour.

CS/ECE 5785/6785, Advanced Embedded Systems, Fall 2006. 27 students enrolled. 3 credit hours.

CS 7962, Embedded Systems, Spring 2006. 17 students enrolled. 3 credit hours.

CS 3400, Computer Systems, Fall 2005. 90 students enrolled. 4 credit hours.

CS 7938, Seminar on Program Analysis, Fall 2005. 11 students enrolled. 1 credit hour.

CS 7962, Embedded Systems, Spring 2005. 15 students enrolled. 3 credit hours.

CS 3400, Computer Systems, Fall 2004. 72 students enrolled. 4 credit hours.

CS 7940, Seminar on Sensor Networks, Fall 2004. 1–3 credit hours. Co-instructor: Prof. Sneha Kasera.

CS 4400, Computer Systems, Spring 2004. 107 students enrolled. 3 credit hours.

CS 6935, Seminar on Embedded and Networked Systems, Fall 2003. 1–3 credit hours. Co-instructor: Prof. Sneha Kasera.

CS 5460, Operating Systems, Fall 2002. 75 students enrolled. 3 credit hours.

CONFERENCE AND JOURNAL PUBLICATIONS

Lu Zhao, Guodong Li, and John Regehr.

ARMor: Fully Verified Software Fault Isolation.

In *Proceedings of the International Conference on Embedded Software (EMSOFT)*, Taipei, Taiwan, October 2011.

<http://www.cs.utah.edu/~regehr/papers/emsoft11.pdf>

Xuejun Yang, Yang Chen, Eric Eide, and John Regehr.

Finding and Understanding Bugs in C Compilers.

In *Proceedings of 32nd ACM SIGPLAN Conference on Programming Language Design and Implementation (PLDI 2011)*, San Jose, CA, USA, June 2011.

<http://www.cs.utah.edu/~regehr/papers/pldi11-preprint.pdf>

Peng Li and John Regehr.

T-Check: Bug Finding for Sensor Networks.

In *Proceedings of the International Conference on Information Processing in Sensor Networks (IPSN)*, SPOTS track, Stockholm, Sweden, April 2010.

<http://www.cs.utah.edu/~regehr/papers/ipsn553s-li.pdf>

Yang Chen, Omprakash Gnawali, Maria Kazandjieva, Philip Levis, and John Regehr.

Surviving Sensor Network Software Faults.

In *Proceedings of the 22nd ACM Symposium on Operating Systems Principles (SOSP 2009)*, Big Sky, MT, USA, October 2009.

<http://www.sigops.org/sosp/sosp09/papers/chen-sosp09.pdf>

Xuejun Yang, Nathan Coopriker, and John Regehr.

Eliminating the Call Stack to Save RAM.

In *Proceedings of the ACM Conference on Languages, Compilers, and Tools for Embedded Systems (LCTES 2009)*, Dublin, Ireland, June 2009.

<http://www.cs.utah.edu/~regehr/papers/lctes062-yang.pdf>

Jon Rafkind, Adam Wick, John Regehr, and Matthew Flatt.

Precise Garbage Collection for C.

In *Proceedings of the 2009 International Symposium on Memory Management (ISMM)*, Dublin, Ireland, June 2009.

<http://www.cs.utah.edu/~regehr/papers/ismm15-rafkind.pdf>

Eric Eide and John Regehr.

Volatiles are miscompiled, and what to do about it.

In *Proceedings of the ACM Conference on Embedded Software (EMSOFT)*, Atlanta, GA, October 2008.

<http://www.cs.utah.edu/~regehr/papers/emsoft08-preprint.pdf>

Venkat Chakravarthy, John Regehr, and Eric Eide.

Edicts: Implementing Features with Flexible Binding Times.

In *Proceedings of the 7th International Conference on Aspect-Oriented Software Development (AOSD)*, Brussels, Belgium, April 2008.

<http://www.cs.utah.edu/~regehr/papers/aosd08-preprint.pdf>

Nathan Coopriker, William Archer, Eric Eide, David Gay, and John Regehr.

Efficient Memory Safety for TinyOS.

In *Proceedings of the 5th ACM Conference on Embedded Networked Sensor Systems (SenSys 2007)*, Sydney, Australia, November 2007.

<http://www.cs.utah.edu/~regehr/papers/coop-sensys07.pdf>

Nathan Coopriker and John Regehr.

Offline Compression for On-Chip RAM.

In *Proceedings of the ACM SIGPLAN 2007 Conference on Programming Language Design and Implementation (PLDI 2007)*, pages 363–372, San Diego, CA, June 2007.

<http://www.cs.utah.edu/~regehr/papers/pldi075-coopriker.pdf>

John Regehr and Nathan Coopriker.

Interrupt Verification via Thread Verification.

Electronic Notes in Theoretical Computer Science (ENTCS), 174(9):139–150, June 2007.

<http://www.sciencedirect.com/science/article/pii/S1571066107003623>

Will Archer, Philip Levis, and John Regehr.

Interface Contracts for TinyOS.

In *Proceedings of the International Conference on Information Processing in Sensor Networks (IPSN) 2007, SPOTS track*, pages 158–165, Cambridge, MA, April 2007.

<http://www.cs.utah.edu/~regehr/papers/spots07.pdf>

Nathan Coopriider and John Regehr.

Pluggable Abstract Domains for Analyzing Embedded Software.

In *Proceedings of the ACM Conference on Languages, Compilers, and Tools for Embedded Systems (LCTES 2006)*, pages 44–53, Ottawa, Canada, June 2006.

http://www.cs.utah.edu/~regehr/papers/lctes06_1

John Regehr and Usit Duongsaa.

Deriving Abstract Transfer Functions for Analyzing Embedded Software.

In *Proceedings of the ACM Conference on Languages, Compilers, and Tools for Embedded Systems (LCTES 2006)*, pages 34–43, Ottawa, Canada, June 2006.

http://www.cs.utah.edu/~regehr/papers/lctes06_2

John Regehr, Alastair Reid, and Kirk Webb.

Eliminating stack overflow by abstract interpretation.

ACM Transactions on Embedded Computing Systems, 4(4):751–778, November 2005.

<http://portal.acm.org/citation.cfm?id=1113830.1113833>

John Regehr.

Random testing of interrupt-driven software.

In *Proceedings of the ACM Conference on Embedded Software (EMSOFT)*, pages 290–298, Jersey City, NJ, September 2005.

<http://www.cs.utah.edu/~regehr/papers/emsoft05>

John Regehr and Usit Duongsaa.

Preventing interrupt overload.

In *Proceedings of the ACM Conference on Languages, Compilers, and Tools for Embedded Systems (LCTES 2005)*, pages 50–58, Chicago, IL, June 2005.

<http://www.cs.utah.edu/~regehr/papers/lctes05/>

John Regehr and Alastair Reid.

HOIST: A system for automatically deriving static analyzers for embedded systems.

In *Proceedings of the Eleventh International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS)*, pages 133–143, Boston, MA, October 9–13 2004.

<http://www.cs.utah.edu/~regehr/papers/asplos04/>

Eric Eide, Tim Stack, John Regehr, and Jay Lepreau.

Dynamic CPU Management for Real-Time, Middleware-Based Systems.

In *Proceedings of the Real-Time Technology and Applications Symposium (RTAS)*, pages 286–295, Toronto, Canada, May 25–28 2004.

<http://www.cs.utah.edu/flux/papers/cpubroker-rtas04-base.html>

John Regehr, Alastair Reid, Kirk Webb, Michael Parker, and Jay Lepreau.

Evolving real-time systems using hierarchical scheduling and concurrency analysis.

In *Proceedings of the 24th IEEE Real-Time Systems Symposium (RTSS)*, pages 25–36, Cancun, Mexico, December 3–5 2003.

<http://www.cs.utah.edu/flux/papers/cee-rtss03/>

John Regehr, Alastair Reid, and Kirk Webb.

Eliminating stack overflow by abstract interpretation.

In *Proceedings of the Third International Conference on Embedded Software (EMSOFT)*, pages 751–778, Philadelphia, PA, October 15–17 2003.

<http://www.cs.utah.edu/flux/papers/emsoft03>

John Regehr.
Scheduling Tasks with Mixed Preemption Relations for Robustness to Timing Faults.
In *Proceedings of the 23rd IEEE Real-Time Systems Symposium (RTSS)*, pages 315–326, Austin, TX, December 3–5 2002.
<http://www.cs.utah.edu/flux/papers/spak-flux-tn-02-01/>

John Regehr.
Inferring Scheduling Behavior with Hourglass.
In *Proceedings of the 2002 USENIX Annual Technical Conference FREENIX track*, pages 143–156, Monterey, CA, June 10–15 2002.
<http://www.cs.utah.edu/flux/papers/hourglass-usenix02/>

Eric Eide, Alastair Reid, John Regehr, and Jay Lepreau.
Static and Dynamic Structure in Design Patterns.
In *Proceedings of the 2002 International Conference on Software Engineering (ICSE)*, pages 208–218, Orlando, FL, May 19–25 2002.
<http://www.cs.utah.edu/flux/papers/knit-icse02-base.html>

John Regehr and John A. Stankovic.
HLS: A Framework for Composing Soft Real-Time Schedulers.
In *Proceedings of the 22nd IEEE Real-Time Systems Symposium (RTSS)*, pages 3–14, London, UK, December 3–6 2001.
<http://www.cs.utah.edu/flux/papers/hls-rtss01/>

John Regehr and John A. Stankovic.
Augmented CPU Reservations: Towards Predictable Execution on General-Purpose Operating Systems.
In *Proceedings of the 7th Real-Time Technology and Applications Symposium (RTAS)*, pages 141–148, Taipei, Taiwan, May 30–June 1 2001.
<http://www.cs.utah.edu/~regehr/papers/augmented/>

Michael B. Jones, John Regehr, and Stefan Saroiu.
Two Case Studies in Predictable Application Scheduling Using Rialto/NT.
In *Proceedings of the 7th Real-Time Technology and Applications Symposium (RTAS)*, pages 157–164, Taipei, Taiwan, May 30–June 1 2001.
http://www.cs.utah.edu/~regehr/papers/rialto_nt_apps/

Michael B. Jones and John Regehr.
CPU Reservations and Time Constraints: Implementation Experience on Windows NT.
In *Proceedings of the 3rd USENIX Windows NT Symposium*, Seattle, WA, July 1999.
<http://www.cs.utah.edu/~regehr/papers/usenixnt99/>

WORKSHOP PUBLICATIONS

Lu Zhao, Guodong Li, and John Regehr.
A Practical Logic Framework for Verifying Safety Properties about Executables.
In *Proceedings of the Workshop on Syntax and Semantics of Low-Level Languages (LOLA 2011)*, Toronto, Canada, June 2011.
<http://www.cs.utah.edu/~regehr/papers/lola11.pdf>

Jianjun Duan and John Regehr.
Correctness Proofs for Device Drivers in Embedded Systems.
In *Proceedings of the 5th International Workshop on Systems Software Verification (SSV)*, Vancouver, Canada, October 2010.
<http://www.cs.utah.edu/~regehr/papers/ssv10.pdf>

Usa Sammapun, John Regehr, Insup Lee, and Oleg Sokolsky.
Runtime Verification for Wireless Sensor Network Applications.

In *Proceedings of the Dagstuhl Seminar 07011 on Runtime Verification*, January 2007.
<http://drops.dagstuhl.de/portals/index.php?semnr=07011>

John Regehr and Phil Levis.
High Confidence TinyOS.
In *Proceedings of the Composable and Systems Technology for High Confidence Cyber-Physical Systems Workshop*, Arlington, VA, July 2007.
<http://www.cs.utah.edu/~regehr/papers/hccps07.pdf>

John Regehr, Nathan Coopriider, and David Gay.
Atomicity and Visibility in Tiny Embedded Systems.
In *Proceedings of the PLOS 2006 Workshop on Linguistic Support for Modern Operating Systems*, San Jose, CA, October 2006.
<http://www.cs.utah.edu/~regehr/papers/plos06b.pdf>

John Regehr, Nathan Coopriider, Will Archer, and Eric Eide.
Efficient Type and Memory Safety for Tiny Embedded Systems.
In *Proceedings of the PLOS 2006 Workshop on Linguistic Support for Modern Operating Systems*, San Jose, CA, October 2006.
<http://www.cs.utah.edu/~regehr/papers/plos06a.pdf>

John Regehr.
Thread Verification vs. Interrupt Verification.
In *Proceedings of the Workshop on Multithreading in Hardware and Software: Formal Approaches to Design and Verification (TVo6)*, Seattle, WA, August 2006.
<http://www.cs.utah.edu/~regehr/papers/tv06.pdf>

John Regehr, Konrad Slind, and Elsa Gunter.
Proofs as a substrate for tool integration supporting high-confidence embedded software.
In *Proceedings of the High Confidence Medical Device Software and Systems (HCMDSS) Workshop*, Philadelphia, PA, June 2005.
<http://www.cs.utah.edu/~regehr/papers/hcmdss05.pdf>

John Regehr.
Opportunities and Challenges for the Real-Time Community.
Invited paper at the 2003 Workshop on Challenges in Embedded Real-Time Systems, Cancun, Mexico, December 2 2003.

John Regehr.
Vertically Integrated Analysis and Transformation for Embedded Software.
In *Proceedings of the 2003 Workshop on Compilers and Tools for Constrained Embedded Systems (CTCES)*, San Jose, CA, October 29 2003.
<http://www.cs.utah.edu/flux/papers/ctces03/>

John Regehr and Alastair Reid.
Lock Inference for Systems Software.
In *Proceedings of the Second AOSD Workshop on Aspects, Components, and Patterns for Infrastructure Software (ACP4IS)*, Boston, MA, March 17 2003.
<http://www.cs.utah.edu/flux/papers/lock-inference-03>

John Regehr and Jay Lepreau.
The Case for Using Middleware to Manage Diverse Soft Real-Time Schedulers.
In *Proceedings of the International Workshop on Multimedia Middleware (M3W)*, Ottawa, Canada, October 2001.
<http://www.cs.utah.edu/flux/papers/crm-m3w01/>

Michael B. Jones and John Regehr.
The Problems You're Having May Not Be the Problems You Think You're Having: Results from a Latency Study of Windows NT.

In *Proceedings of the 7th Workshop on Hot Topics in Operating Systems (HotOS)*, pages 96–101, Rio Rico, AZ, March 1999.
<http://www.cs.utah.edu/~regehr/papers/hotos7/>

Michael B. Jones and John Regehr.

Issues in Using Commodity Operating Systems for Time-Dependent Tasks: Experiences from a Study of Windows NT.

In *Proceedings of the 8th International Workshop on Network and Operating Systems Support for Digital Audio and Video (NOSSDAV)*, Cambridge, England, July 1998.

OTHER WRITING

John Regehr.

Safe and Structured Use of Interrupts in Real-Time and Embedded Software.

Chapter in *Handbook of Real-Time and Embedded Systems*, CRC Press, 2007.

http://www.cs.utah.edu/~regehr/papers/interrupt_chapter.pdf

John Regehr.

Teaching Reliability.

IEEE Distributed Systems Online, vol. 7, no. 5, 2006, art. no. 0605-05002.

<http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=1642629>

John Regehr.

Say No to Stack Overflow.

Embedded Systems Programming, 17(10), October 2004.

<http://www.embedded.com/showArticle.jhtml?articleID=47101892>

PATENT

Michael B. Jones and John Regehr.

Providing predictable scheduling of programs using repeating precomputed schedules on discretely scheduled and/or multiprocessor operating systems.

US patent 7,000,232. Awarded February 2006.

TALKS

“Testing Embedded Software.” Keynote at ISSTA 2011, the International Symposium on Software Testing and Analysis.

“Random Testing for C Compilers.” Invited talk at SPIN 2011, the 18th International Workshop on Model Checking of Software.

“Exposing Difficult Compilers Bugs With Random Testing.” Talk at the GCC Summit, Ottawa Canada, October 2010.

“Safety Analysis for Wireless Embedded Networks.” Series of three lectures given at RWTH Aachen, February 17–19 2010.

“Safe TinyOS.” Part of a three-hour tutorial on TinyOS given at IPSN 2009 with other members of the TinyOS Core Working Group. April 16 2009.

“Static Analysis of Interrupt-Driven Embedded C.” Invited talk at the Department of Computer Science, University of Virginia, April 7 2008.

“Static Analysis of Interrupt-Driven Embedded C.” Invited talk at the Department of Computer Science, Washington University, January 18 2008.

“Static Analysis of Interrupt-Driven Embedded C.” Invited talk at Australia’s Information and Communications Technology Centre of Excellence (NICTA), November 7 2007.

“Using Application- and System-Specific Heuristics to Compile Embedded Software for Real-Time and Other Resource Constraints.” Invited talk at the Department of Computer Science, University of Pittsburgh, November 5 2004.

“Say No to Stack Overflow.” Invited talk at the Department of Computer Science, University of Maryland, June 8 2004.

“Say No to Stack Overflow.” Invited talk at the Department of Computer Science, Brigham Young University, March 4 2004.

“Vertically Integrated Analysis and Transformation for Embedded Software.” Invited talk at the 2003 Workshop on Constraint-Aware Embedded Software, Cancun, Mexico, December 2 2003.

“High-Level Optimizations for Low-Level Software.” Presented as a work in progress at the 19th ACM Symposium on Operating Systems Principles, Bolton Landing, New York, October 21 2003.

“High-Level Optimizations for Low-Level Software.” Invited talk at the Department of Computer and Information Science, University of Pennsylvania, October 17 2003.

“Creating Embedded Software.” Talk at the School of Computing, University of Utah, October 12 2003.

“Principles and Pragmatics for Embedded Systems.” Job interview talk at Northwestern University, Indiana University, The University of Iowa, Purdue University, The Pennsylvania State University, North Carolina State University, The University of Delaware, The University of Utah, The University of Massachusetts at Amherst, and The University of Minnesota, February–April 2003.

“How to Rapidly Prototype a Real-Time Scheduler,” with Luca Abeni. Presented as a work in progress at the 23rd IEEE Real-Time Systems Symposium (RTSS), Austin, TX, December 4 2002.

“Some Guidelines for Proportional Share CPU Scheduling in General-Purpose Operating Systems.” Presented as a work in progress at the 22nd IEEE Real-Time Systems Symposium (RTSS), London, UK, December 5 2001.

“Hierarchical Schedulers, Performance Guarantees, and Resource Management,” with John A. Stankovic. Presented as a work in progress at the 17th ACM Symposium on Operating Systems Principles, Kiawah Island, South Carolina, December 1999.

“The Problems You’re Having May Not Be the Problems You Think You’re Having: Results from a Latency Study of Windows NT,” with Michael B. Jones. Invited talk at the Real-Time Applications and Systems Symposium, Vancouver, Canada, June 1999.

“Myricom and Linux,” with Bob Felderman. Invited talk at the First Extreme Linux Workshop, Santa Fe, New Mexico, February 1998.

CURRENT ADVISEES

Anton Burtsev, PhD, October 2008–present

Yang Chen, PhD, August 2007–present

Jianjun Duan, PhD, August 2007–present

Peng Li, PhD, May 2008–present

Xuejun Yang, PhD, January 2007–present

Lu Zhao, PhD, August 2007–present

PAST ADVISEES

Rohit Pagariya, MS, December 2010

Venkat Chakravarthy, MS, May 2009

Nathan Coopriider, PhD, August 2008

Usit Duongsaa, MS, May 2006

OPEN SOURCE SOFTWARE

Csmith: a tool for finding bugs in C compilers

<http://embed.cs.utah.edu/csmith/>

Integer Overflow Checker for C and C++ code

<http://embed.cs.utah.edu/ioc/>

Safe TinyOS: memory safety for sensor network nodes (part of TinyOS 2.1.0)

<http://tinycos.net>

cXprop: static analysis, function inlining, and whole-program optimization for embedded C programs

<http://www.cs.utah.edu/~coop/research/cxprop>

Hourglass: a tool for inferring scheduling behavior

<http://www.cs.utah.edu/~regehr/hourglass>

Stacktool: a static analyzer for measuring stack depth

<http://www.cs.utah.edu/~regehr/stacktool>

SPAK: an analysis tool for real-time systems scheduled using static priorities

<http://www.cs.utah.edu/~regehr/spak>

PROFESSIONAL ACTIVITIES — ASSOCIATE EDITOR

ACM Transactions on Sensor Networks, October 2010–present

PROFESSIONAL ACTIVITIES — PROGRAM COMMITTEE CHAIR

International Conference on Embedded Software (EMSOFT) 2012, co-chair Florence Maraninchi

IEEE 2010 Real-Time Systems Symposium (RTSS), track on sensor networks

ACM SIGPLAN/SIGBED 2008 Conference on Languages, Compilers, and Tools for Embedded Systems (LCTES)

IEEE 2006 Real-Time Technology and Applications Symposium (RTAS), track on Development, Verification, and Debugging Tools for Real-Time and Embedded Systems

PROFESSIONAL ACTIVITIES — PROGRAM COMMITTEE MEMBER

ACM International Symposium on Memory Management (ISMM) 2012

Real-Time and Embedded Technology and Applications Symposium (RTAS) 2012, Applications, Systems, RTOS and Tools track

USENIX Annual Technical Conference 2012

Computer Aided Verification (CAV) 2011

Real-Time and Embedded Technology and Applications Symposium (RTAS) 2011, Sensor Network track

International Conference on Distributed Computing Systems (ICDCS) 2011, Sensor Network track

ACM SIGPLAN/SIGBED 2011 Conference on Languages, Compilers, and Tools for Embedded Systems (LCTES)

USENIX Annual Technical Conference 2010

European Conference on Computer Systems (EuroSys) 2010

International Workshop on Java Technologies for Real-time and Embedded Systems (JTRES) 2010

ACM Conference on Embedded Networked Sensor Systems (SenSys) 2009

Design Automation Conference (DAC) 2009

Real-Time and Embedded Technology and Applications Symposium (RTAS) 2009

Real-Time Systems Symposium (RTSS) 2009

Real-Time Systems Symposium (RTSS) track on Wireless Sensor Networks 2008

IEEE 17th International Conference on Computer Communications and Networks (ICCCN) 2008

IEEE/IFIP International Conference On Embedded and Ubiquitous Computing (EUC) 2008

Real-Time and Embedded Technology and Applications Symposium (RTAS) 2008

International Conference on Embedded Software (EMSOFT) 2007

Workshop on the Interaction between Compilers and Computer Architecture (INTERACT) 2007

International Conference on Embedded and Real-Time Computing Systems and Applications (RTCSA) 2007

Workshop on Embedded Sensor Networks (EmNets) 2007

ACM SIGPLAN/SIGBED 2007 Conference on Languages, Compilers, and Tools for Embedded Systems (LCTES)

International Conference on High Performance Embedded Architectures and Compilers (HiPEAC) 2007

Real-Time Systems Symposium (RTSS) 2007

Real-Time and Embedded Technology and Applications Symposium (RTAS) 2007

International Conference on Embedded and Real-Time Computing Systems and Applications (RTCSA) 2006

International Workshop on Parallel and Distributed Real-Time Systems (WPDRTS) 2006

Workshop on Operating Systems Platforms for Embedded Real-Time applications (2006)

Workshop on Multithreading in Hardware and Software: Formal Approaches to Design and Verification (TV) 2006

Real-Time Systems Symposium (RTSS) 2006
Conference on Distributed Computing in Sensor Systems (DCOSS) 2006
Workshop on Parallel and Distributed Real-Time Systems (WPDRTS) 2006
Java Technologies for Real-Time and Embedded Systems (JTRES) 2005
Real-Time Systems Symposium (RTSS) 2005
ACM SIGPLAN/SIGBED 2005 Conference on Languages, Compilers, and Tools for Embedded Systems (LCTES)
Real-Time and Embedded Technology and Applications Symposium (RTAS) 2005
Workshop on High Performance, Fault Adaptive, Large Scale Embedded Real-Time Systems (FALSE-II) 2005
Workshop on Compilers and Tools for Constrained Embedded Systems (CTCES) 2004
Real-Time Systems Symposium (RTSS) Track on Real-Time Middleware and Software Engineering 2004
Workshop on Java Technologies for Real-Time and Embedded Systems (JTRES) 2004
Workshop on Aspects, Components, and Patterns for Infrastructure Software (ACP4IS) 2004
Real-Time and Embedded Technology and Applications Symposium (RTAS) 2004
Workshop on Java Technologies for Real-Time and Embedded Systems (JTRES) 2003
Real-Time Systems Symposium (RTSS) 2003
Real-Time Systems Symposium (RTSS) Work in Progress Session 2003
International Conference on Distributed Computing Systems (ICDCS) 2003
Real-Time and Embedded Technology and Applications Symposium (RTAS) 2003

PROFESSIONAL ACTIVITIES — EXTERNAL REVIEW COMMITTEE MEMBER

ACM SIGPLAN Conference on Programming Language Design and Implementation 2012
ACM International Symposium on Memory Management (ISMM) 2011

PROFESSIONAL ACTIVITIES — OTHER

Demo co-Chair ACM Conference on Embedded Networked Sensor Systems (SenSys) 2010
NSF Panelist in 2011, 2008, 2007, and 2003
Work in Progress Co-chair, Real-Time Systems Symposium (RTSS) 2004
Student Travel Awards Chair, Conference on Embedded Networked Sensor Systems (SenSys) 2004
Web Chair, ACM 2004 Conference on Languages, Compilers, and Tools for Embedded Systems
Scribe, Symposium on Operating Systems Principles (SOSP) 1999

PROFESSIONAL ACTIVITIES — INTERNAL SERVICE

Facility Liaison, 2007–present

Member, robotics track committee, 2006–present

Member, computer engineering track committee, 2006–present

Director, BS/MS program, 2005–2008

Member, curriculum committee, 2005–2008

Member, graduate admissions committee, 2004–2005, 2005–2006, 2007–2008, 2010–2011

Organizer, Distinguished lecture series, 2004–2005, 2006–2008

Member, systems faculty recruiting committee, 2007–2008

Member, graphics faculty recruiting committee, 2007–2008

Member, facility committee, 2006–2007

Member, external relations committee, 2006–2007

Member, undergraduate studies committee, 2003–2004