# Philip M. Johnson | Curriculum Vitae

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## **Education**

University of Massachusetts Ph.D., Computer Science	Amherst, MA 1990
University of Massachusetts M.S., Computer Science	Amherst, MA 1985
University of Michigan B.S., Computer Science	Ann Arbor, MI 1980
University of Michigan B.S., Biology	Ann Arbor, MI 1980
Academic Experience	
University of Hawaii Professor	Honolulu, HI 1990–Present
<ul> <li>Professor</li> <li>Associate Chair</li> <li>Director, © Collaborative Software Development Laboratory</li> <li>Associate Professor</li> <li>Assistant Professor</li> </ul>	2001–Present 2010–2016 1990–Present 1995–2001 1990-1995
School of Engineering, Blekinge Institute of Technology Visiting Professor	Karlskrona, Sweden 2006
Distributed Systems Technology Centre, University of Queensland Senior Research Fellow	Brisbane, Australia 1997
Department of Computer Science, University of Massachusetts Research Assistant	<b>Amherst, MA</b> 1984–1986, 1987–1990
Department of Computer Science, University of Michigan Lecturer	<b>Ann Arbor, MI</b> 1981–1982
Industry Experience	

# Industry Experience

OpenPowerQuality.com	Honolulu, HI
Co-Founder	2013-present
Sixth Sense Analytics	Raleigh, NC
Member, Technical Advisory Board	2006–2009
Hawaii Strategic Development Corporation	Honolulu, HI
Member, Board of Directors	2006–2009

Tiki Technologies, Inc. Honolulu, HI Member, Board of Directors 2003-2005 LavaNet, Inc. Honolulu, HI Member, Board of Directors 2002-2005 BreastCancer.org Philadelphia, PA 2000-Present Member, Professional Advisory Board **High Technology Development Corporation** Honolulu, HI Member, Board of Directors 2000-2004 hotU, Inc. Honolulu, HI Co-Founder 2000 Referentia, Inc. Honolulu, HI Member, Professional Advisory Board 2000-2002 Department of Computer Science, University of Massachusetts Amherst, MA 1986-1987 Lisp Hacker

Software Services CorporationAnn Arbor, MISystems Programmer1982–1983

Veterans HospitalAnn Arbor, MISystems Analyst1981–1983

Great Lakes Software Systems

Programmer

Ann Arbor, MI

1978

### **Publications**

Journal articles....

**Design and evaluation of an "athletic" approach to software engineering education**, P. Johnson, *ACM Transactions on Computing Education*, December 2018 (\*☐ pdf)

Is an athletic approach the future of software engineering?, E.Hill, P. Johnson, D.Port, *IEEE Software*, January 2016 (\*\*pdf)

Three principals for the design of energy feedback visualizations, R.Brewer, Y. Xu, G. Lee, M. Katchuck, C. Moore, P. Johnson, *International Journal on Advances in Intelligent Systems*, Volume 6, No. 3, December 2013 (\*\*pdf)

Searching under the streetlight for useful software analytics, P. Johnson, *IEEE Software*, Volume 30, No. 4, July 2013 (\*† pdf)

Operational definition and automated inference of test-driven development with Zorro, H. Kou, P. Johnson, H. Erdogmus, *Automated Software Engineering*, Volume 16, Number 4, December 2009 (\*\*) pdf)

Protocols in the use of empirical software engineering artifacts, V. Basili, M. Zelkowitz, D. Sjoberg, P. Johnson, T. Cowling, *Empirical Software Engineering*, Volume 12, February 2007 (\*\*) pdf)

**Experiments to understand HPC time to development**, L. Hochstein, T. Nakamura, V. Basili, S. Asgari, M. Zelkowitz, J. Hollingsworth, F. Shull, J. Carver, M. Voelp, N. Zazworka, P. Johnson, *CTWatch Quarterly*, November 2006 (\*\*pdf)

Improving software development management through software project telemetry, P. Johnson, H. Kou, M. Paulding, Q. Zhang, A. Kagawa, T. Yamashita, *IEEE Software*, Volume 22, No. 4, July

2005 (\*\*n pdf)

Measuring HPC productivity, S. Faulk, J. Gustafson, P. Johnson, A. Porter, W. Tichy, L. Votta, *International Journal of High Performance Computing Applications*, December 2004 (\*\*) pdf)

Lessons learned from VCommerce: A virtual environment for interdisciplinary learning about software entrepreneurship, P. Johnson, M. Moffett, B. Pentland, *Communications of the ACM*, Volume 46, No. 12, December 2003 (\*\*pdf)

**Empirically guided software effort guesstimation**, P. Johnson, C. Moore, J. Dane, R. Brewer, *IEEE Software*, Volume 17, No. 6, December 2000 (≅ pdf)

A critical analysis of PSP data quality: Results from a case study, P. Johnson, A. Disney, *Journal of Empirical Software Engineering*, Volume 4, December 1999 (\*\*pdf)

**The Personal Software Process: A cautionary case study**, P. Johnson, A. Disney, *IEEE Software*, Volume 15, No. 6, November 1998

Reengineering inspection, P. Johnson, Communications of the ACM, Volume 41, No. 2, February 1998

**Does every inspection really need a meeting?**, P. Johnson, D. Tjahjono, *Journal of Empirical Software Engineering*, Volume 4, No. 1, January 1998

Assessing software review meetings: Results of a comparative analysis of two experimental studies, A. Porter, P. Johnson, *IEEE Transactions on Software Engineering*, Volume 23, No. 3, March 1997

**Design for instrumentation: High quality measurement of formal technical review**, P. Johnson, *Software Quality Journal*, Volume 5, March 1996

**Experiences with CLARE: a computer-supported collaborative learning environment**, D. Wan P. Johnson, *International Journal of Human-Computer Studies*, Volume 41, December 1994

**Experiences with EGRET: An exploratory group work environment**, P. Johnson, *Collaborative Computing, Volume 1, No. 1, March*, 1994

**The clinical significance of electrogastrography**, B. Walker, M. Walker, S. Achem, P. Johnson, R. Gregg, *Psychophysiology*, Volume 20, 1983

Book chapters.

An instrumented approach to improving software quality through formal technical review, P. Johnson, *Software Inspection: An Industry Best Practice,* David A. Wheeler, Bill Brykczynski, Reginald N. Meeson, Jr., Editors, IEEE Computer Society Press, 1996. Also appearing in the Proceedings of the 16th International Conference on Software Engineering, Sorrento, Italy, 1994

Beyond exploratory programming: A methodology and environment for natural language processing, P. Johnson, W. Lehnert, P, r

oceedings of the 2014 International Conference on Sustainability, Technology, and Education Artificial Intelligence and Software Engineering D. Partridge, editor, Ablex 1990. Also appearing in Proceedings of the Fifth National Conference on Artificial Intelligence (AAAI-86), Philadelphia, PA.

Achieving flexibility, efficiency, and generality in blackboard architectures, D. Corkill, K. Gallagher, and P. Johnson, *Readings in Distributed Artificial Intelligence*, A. Bond and L. Gasser, editors. Morgan-Kaufman, 1988. Also appearing in Proceedings of the Sixth National Conference on Artificial Intelligence (AAAI-87), Seattle, WA.

Design and evaluation of the Makahiki open source serious game framework for sustainability

**education**, Y. Xu, P. Johnson, G. Lee, C. Moore, and R. Brewer, *Sustainability, Green IT and Education Strategies in the 21st Century,* T. Issa, editor. Springer, 2016. An earlier version appears in Proceedings of the 2014 International Conference on Sustainability, Technology, and Education, Taipei, Taiwan.

Conference publications.....

OPQ Version 2: An Architecture for Distributed, Real-Time, High Performance Power Data Acquisition, Analysis, and Visualization, A. Christe, S. Negrashov, P. Johnson, D. Nakahodo, D. Badke, D. Aghalarpour, Proceedings of the Seventh Annual IEEE International Conference on CYBER Technology in Automation, Control, and Intelligent Systems, Honolulu, HI, USA, July, 2017 (\*\*) pdf)

OpenPowerQuality: An Open Source Framework for Power Quality Collection, Analysis, Visualization, and Privacy, A. Christe, S. Negrashov, P. Johnson, *Proceedings of the Seventh Conference on Innovative Smart Grid Technologies (ISGT2016)*, Minneapolis, MN, USA, September, 2016 (\*\*P pdf)

An athletic approach to software engineering education, P.Johnson, D.Port, E.Hill, *Proceedings of the 29th IEEE Conference on Software Engineering Education and Training, Dallas, Texas, USA, April, 2016* (\*\*P pdf)

Makahiki: An open source serious game framework for sustainability education and conservation, Y. Xu, P. Johnson, G. Lee, C. Moore, R. Brewer, *Proceedings of the 2014 International Conference on Sustainability, Technology, and Education,* New Taipei City, Taiwan, December, 2014 (\* pdf)

SGSEAM: Assessing serious game frameworks from a stakeholder experience perspective, Y. Xu, P. Johnson, C. Moore, R. Brewer, J. Takayama, *Proceedings of the First International Conference on Gameful Design, Research, and Applications,* Stratford, Ontario, Canada, October 2013 (\*\* pdf)

Energy feedback for smart grid consumers: Lessons learned from the Kukui Cup, R. Brewer, Y. Xu, G. Lee, M. Katchuck, C. Moore, P. Johnson, *Proceedings of Energy 2013,* Lisbon, Portugal, March 2013 (\*\*pdf\*)

Makahiki+WattDepot: An open source software stack for next generation energy research and education, P. Johnson, Y. Xu, R. Brewer, C. Moore, G. Lee, A. Connell, *Proceedings of the 2012 Conference on Information and Communication Technologies for Sustainability,* Zurich, Switzerland, February 2013 (\*\*pdf\*)

Beyond kWh: Myths and fixes for energy competition game design, P. Johnson, Y. Xu, R. Brewer, G. Lee, M. Katchuck, C. Moore, *Proceedings of Meaningful Play 2012*, Lansing, Michigan, October 2012 (\*\*P pdf\*)

The Kukui Cup: A dorm energy competition focused on sustainable behavior change and energy literacy, R. Brewer, G. Lee, P. Johnson, *Proceedings of the 43rd Hawaii International Conference on System Sciences*, Poipu, Hawaii, January 2011 (\*\*pdf)

WattDepot: An open source software ecosystem for enterprise-scale energy data collection, storage, analysis, and visualization, R. Brewer and P. Johnson, *Proceedings of the First IEEE International Conference on Smart Grid Communications*, Gaithersburg, Maryland, October 2010 (\*\*) pdf)

We need more coverage, stat! Experiences with the Software ICU, P. Johnson and S. Zhang, Proceedings of the 2009 Conference on Empirical Software Engineering and Measurement, Orlando, Florida, October 2009 (\*pdf)

Requirement and design trade-offs in Hackystat: An in-process software engineering measurement and analysis system, P. Johnson, *Proceedings of the 2007 International Symposium on Empirical Software* 

Engineering and Measurement, Madrid, Spain, September 2007 (\* pdf)

**Generalizing fault contents from a few classes**, H. Scott and P. Johnson, *Proceedings of the 2007 International Symposium on Empirical Software Engineering and Measurement*, Madrid, Spain, September 2007

**Automated recognition of test-driven development with Zorro**, P. Johnson and H. Kou, *Proceedings of Agile 2007*, Washington, D.C., August 2007 (\*p pdf)

Practical automated process and product metric collection and analysis in a classroom setting: Lessons learned from Hackystat-UH, P. Johnson, H. Kou, J. Agustin, Q. Zhang, A. Kagawa, T. Yamashita, *Proceedings of the 2004 Symposium on Empirical Software Engineering,* Los Angeles, CA., August 2004 (\*† pdf)

Beyond the Personal Software Process: Metrics collection and analysis for the differently disciplined, P. Johnson, H. Kou, J. Agustin, C. Chan, C. Moore, J. Miglani, S. Zhen, and W. Doane, *Proceedings of the 2003 International Conference on Software Engineering*, Portland, OR., May 2003 (\*\*) pdf)

**Leap: A "Personal Information Environment" for software engineers**, P. Johnson, *Proceedings of the 1999 International Conference on Software Engineering*, Los Angeles, CA., May 1999 (\*\*pdf)

**Investigating data quality problems in the PSP**, A. Disney, P. Johnson, *Proceedings of the Sixth International Symposium on the Foundations of Software Engineering*, Orlando, FL., November 1998 (\*\*\mathbb{P} pdf)

Assessing software review meetings: A controlled experimental study using CSRS, P. Johnson, D. Tjahjono, *Proceedings of the 1997 International Conference on Software Engineering*, Boston, MA., May 1997 (\*\*P pdf)

Computer supported collaborative learning using CLARE: The approach and experimental findings, D. Wan and P. Johnson, *Proceedings of the 1994 ACM Conference on Computer Supported Cooperative Work,* Chapel Hill, NC., 1994

Supporting technology transfer of formal technical review through a computer supported collaborative review system, P. Johnson, *Proceedings of the Fourth International Conference on Software Quality,* Reston, VA. 1994

**An instrumented approach to improving software quality through formal technical review**, P. Johnson, *Proceedings of the 16th International Conference on Software Engineering*, Sorrento, Italy, May 1994

**Experiences with CSRS: An instrumented software review environment**, P. Johnson, D. Tjahjono, D. Wan, R. Brewer, *Proceedings of the 11th Annual Pacific Northwest Software Quality Conference*, Portland, OR. 1993

**Improving software quality through computer supported collaborative review**, P. Johnson, D. Tjahjono, *Proceedings of the Third European Conference on Computer Supported Cooperative Work*, Milan, Italy. 1993

**Supporting Exploratory CSCW with the EGRET Framework**, P. Johnson, *Proceedings of the ACM 1992 Conference on Computer Supported Cooperative Work*, Toronto, Canada. 1992

**An Ada restructuring assistant**, P. Johnson, D. Hildum, A. Kaplan, C. Kay, and J. Wileden, *Proceedings of the Fourth Annual Conference on Artificial Intelligence and Ada*, Fairfax, VA. 1988

**Achieving flexibility, efficiency, and generality in blackboard architectures**, D. Corkill, K. Gallagher, and P. Johnson, *Proceedings of the Sixth National Conference on Artificial Intelligence*, Seattle, WA, 1987

Beyond exploratory programming: A methodology and environment for natural language process-

ing, P. Johnson and W. Lehnert, *Proceedings of the Fifth National Conference on Artificial Intelligence*, Philadelphia, PA, 1986

Workshop publications.....

Lights Off. Game On. The Kukui Cup: A dorm energy competition, R. Brewer, G. Lee, Y. Xu, C. Desiato, M. Katchuck, P. Johnson, *Proceedings of the 2011 CHI Workshop on Gamification*, May 2011 (\*\*P pdf)

Ultra-automation and ultra-autonomy for software engineering management of ultra-large-scale systems, P. Johnson, *Proceedings of the 2007 Workshop on Ultra Large Scale Systems*, Minneapolis, Minnesota, May 2007 (\*† pdf)

Automated recognition of low-level process: A pilot validation study of Zorro for test-driven development, H. Kou, P. Johnson, *Proceedings of the 2006 International Workshop on Software Process,* Shanghai, China, May 2006 (\*\*pdf)

Understanding HPC Development through automated process and product measurement with Hackystat, P. Johnson, M. Paulding, Proceedings of the Second Workshop on Productivity and Performance in High-End Computing, February 2005 (\*\*) pdf)

You can't even ask them to push a button: Toward ubiquitous, developer-centric, empirical software engineering, P. Johnson, *Proceedings of the Workshop on New Visions for Software Design and Productivity: Research and Application*, December 2001 (\*\*) pdf)

**Project LEAP: Lightweight, empirical, anti-measurement dysfunction, and portable software developer improvement**, P. M. Johnson, *Software Engineering Notes*, Volume 24, Number 6, December 1999

**Egret: A framework for advanced CSCW applications**, P. Johnson, *Software Engineering Notes*, Volume 21, Number 5, September 1996

**Assessing software review meetings: An empirical study using CSRS**, P. Johnson, *Proceedings of the 1996 International Software Engineering Research Network Meeting*, Sydney, Australia, August 1996

**Investigating Strong Collaboration with the Annotated Egret Navigator**, P. Johnson and C. Moore, *Proceedings of the Fourth IEEE Workshop on Enabling Technologies: Infrastructure for Collaborative Enterprises*, April 1995

**Computer supported formal technical review with CSRS**, P. Johnson, *Software Inspection and Review Organization Newsletter*, Volume 5, Number 3, December 1994

**Collaboration-in-the-large vs. Collaboration-in-the-small**, Proceedings of the 1994 CSCW Workshop on Software Architectures for Cooperative Systems, *P. Johnson*, Chapel Hill, VA. October 1994

From principle-centered to organization-centered design: A case study of evolution in a computer-supported formal technical review environment, Proceedings of the 15th Interdisciplinary Workshop on Informatics and Psychology, *P. Johnson*, Scharding, Austria 1994

**Report from the 1993 ECSCW Workshop on Tools and Technologies**, P. Johnson, *SIGOIS Bulletin*, April 1994

**Methodological issues in CSCW research**, P. Johnson, *Proceedings of the 1993 ECSCW Workshop on Tools and Technologies*, Milan, Italy 1993

An architectural perspective on EGRET, P. Johnson, Proceedings of the 1992 ACM Conference on

Computer Supported Cooperative Work, Workshop on Tools and Technologies, Toronto, Canada 1992

**Collaborative software review for capturing design rationale**, P. Johnson, *Proceedings of the AAAI Workshop on AI and Design Rationale*, San Jose, CA 1992

**Supporting scientific learning and research review using COREVIEW**, P. Johnson, *Proceedings of the AAAI Workshop on Communicating Scientific and Technical Knowledge*, San Jose, CA. 1992

**EGRET: Exploring open, evolutionary, and emergent collaborative systems**, P. Johnson, *Proceedings of the 1991 ECSCW Tools and Technologies Workshop*, Amsterdam, The Netherlands 1991

**Structural evolution in exploratory software development**, P. Johnson, *Proceedings of the 1989 AAAI Spring Symposium on AI and Software Engineering*, Stanford University, CA. 1989

**A knowledge-based rhythm composition tool**, S. Founds, P. Johnson, *Proceedings of the 1989 IJCAI Workshop on Artificial Intelligence and Music*, Detroit, MI. 1989

**Integrating BB1-style control into the generic blackboard system**, P. Johnson, *Proceedings of the 1987 AAAI Workshop on Blackboard Systems*, Seattle, WA. 1987

**Combining software engineering and artificial intelligence**, P. Johnson, *Proceedings of the First International Workshop on Computer-Aided Software Engineering*, Cambridge, MA. 1987

From prototype to product: Evolutionary development from within the blackboard paradigm, D. Corkill, K. Gallagher, and P. Johnson, *Proceedings of the Workshop on High-level Tools for Knowledge-based Systems*, Columbus, OH. 1986

**Requirements definition for a PLUMber's apprentice**, P. Johnson, *Proceedings of the Second Annual Workshop on Theoretical Issues in Conceptual Information Processing*, New Haven, CT. 1985

## **Awarded Grant Support**

Using Degree Experience Plans to Improve Engagement, Retention, and Diversity of Undergradu-
ates in Computer Science

National Science Foundation 2018

P. Johnson, Principal Investigator; Peter Leong, Seungoh Paek, Carleton Moore, Co-Principal Investigators \$299,208

# Providing agile power quality monitoring to support the UH net zero energy mandate and microgrid operations

University of Hawaii President's Green Implementation Award	2018
P. Johnson, Principal Investigator	\$10,000

#### Human centered information integration for the smart grid

National Science Foundation	2010–2014
P. Johnson, Principal Investigator	\$413,467

#### Supporting next generation energy education with the Kukui Cup

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HEI Charitable Foundation			2012
P. Johnson, Principal Investigator			\$10.777

#### Sponsorship of the 2011 Kukui Cup

Hawaii State Department of Business, Economic Development, and Tourism	2012
P. Johnson, Principal Investigator	\$5,000

#### Renewable energy and island sustainability

University of Hawaii 2009–2011

Principal Investigator: T. Kuh; Co-Principal Investigators: O. Boric-Lubecke, B. Chao, M. Nejhad, R. Ghorbani, P. Johnson, A. Kavcic, D. Konan, B. Liaw, E. Miller, W. Qu, M. Teng	
Google Summer of Code: Hackystat Google, Inc.	2008–2009
P. Johnson, Principal Investigator	\$45,000
CSDL affiliates program	2000
Expedia, Inc. P. Johnson, Principal Investigator	2008 \$25,000
CSDL affiliates program	\$20,000
Sixth Sense Analytics, Inc.	2006
P. Johnson, Principal Investigator	\$25,000
Student engagement grant	
University of Hawaii and Maui High Performance Computing Center P. Johnson, Principal Investigator	2005 \$42,000
Eclipse innovation grant award	¥ <del>1</del> 2,000
IBM Corporation	2004
P. Johnson, Principal Investigator	\$15,000
Supporting development of highly dependable software through continuous, a	automated,
in-process, and individualized software measurement validation	2002–2006
Joint NSF/NASA Highly Dependable Computing Program P. Johnson, Principal Investigator	\$638,000
Aligning the financial services, fulfillment distribution infrastructure, and small	all business sectors in
Hawaii through B2B technology innovation	
University of Hawaii New Economy Research Grant Program P. Johnson, Principal Investigator	2000–2001 \$30,000
	\$30,000
Internet entrepreneurship: Theory and practice University of Hawaii Entrepreneurship Course Development Grant	1999–2000
P. Johnson and Glen Taylor, Principal Investigators	\$10,000
Java-based software engineering technology for high quality development in "nizations	'Internet Time'' orga-
	1000
Sun Microsystems Academic Equipment Grant Program	1999
Sun Microsystems Academic Equipment Grant Program P. Johnson, Principal Investigator	1999 \$39,205
P. Johnson, Principal Investigator  Project LEAP: Lightweight, empirical, anti-measurement dysfunction, and po	\$39,205
P. Johnson, Principal Investigator	\$39,205 rtable software devel- 1998–2001
P. Johnson, Principal Investigator  Project LEAP: Lightweight, empirical, anti-measurement dysfunction, and pooper improvement	\$39,205
P. Johnson, Principal Investigator  Project LEAP: Lightweight, empirical, anti-measurement dysfunction, and pooper improvement  National Science Foundation P. Johnson, Principal Investigator  Internet-enabled engineering tool for dynamically analyzing and planning work	\$39,205 ertable software devel- 1998–2001 \$265,000
P. Johnson, Principal Investigator  Project LEAP: Lightweight, empirical, anti-measurement dysfunction, and pooper improvement  National Science Foundation P. Johnson, Principal Investigator  Internet-enabled engineering tool for dynamically analyzing and planning world array installations  Makai Ocean Engineering, Inc.	\$39,205  rtable software devel-  1998–2001 \$265,000  rld-wide subsea cable  1998–1999
P. Johnson, Principal Investigator  Project LEAP: Lightweight, empirical, anti-measurement dysfunction, and pooper improvement  National Science Foundation P. Johnson, Principal Investigator  Internet-enabled engineering tool for dynamically analyzing and planning world and array installations	\$39,205  retable software devel-  1998–2001 \$265,000  rld-wide subsea cable
P. Johnson, Principal Investigator  Project LEAP: Lightweight, empirical, anti-measurement dysfunction, and pooper improvement  National Science Foundation P. Johnson, Principal Investigator  Internet-enabled engineering tool for dynamically analyzing and planning world array installations  Makai Ocean Engineering, Inc.	\$39,205  rtable software devel-  1998–2001 \$265,000  rld-wide subsea cable  1998–1999

P. Johnson, Principal Investigator	\$101,413
CSDL affiliates program  Makai Ocean Engineering, Inc. P. Johnson, Principal Investigator	1997 \$10,000
CSDL affiliates program  Tektronix, Inc. P. Johnson, Principal Investigator	1996–1998 \$45,000
Improving software quality through instrumented formal technical review  National Science Foundation  P. Johnson, Principal Investigator	1995–1997 \$161,754
Collaboration mechanisms for Project HI-TIME  Pacific International Center for High Technology Research  P. Johnson, Principal Investigator	1995 \$30,280
Three dimensional interfaces for evolving collaborative systems University of Hawaii Research Council Seed Money Grant P. Johnson, Principal Investigator	1992–1993 \$5,000
<b>Support for structural evolution in exploratory software development</b> National Science Foundation Research Initiation Award Program in Software Engineering P. Johnson, Principal Investigator	1991–1993 \$54,810
An investigation of software structure evolution University of Hawaii Research Council Seed Money Grant P. Johnson, Principal Investigator	1990–1991 \$6,000

### **Professional activities**

#### **Editorial Board:**

- Journal of Empirical Software Engineering, 2004-2008
- IEEE Transactions on Software Engineering, 2000-2004
- International Journal of Computer Supported Cooperative Work, 1997-2004

#### Program Chair/Co-Chair:

- International Workshop on In-Process Software Engineering Measurement and Analysis, 2007
- International Workshop on Software Engineering for High Performance Computing System Applications, 2004, 2005
- International Software Engineering Research Network Annual Meeting, 2000
- Software Architectures for Cooperative Systems Workshop, ACM Conference on Computer Supported Cooperative Work, 1994
- CSCW Tools and Technologies Workshop, European Conference on Computer Supported Cooperative Work, 1993
- CSCW Tools and Technologies Workshop, ACM Conference on Computer Supported Cooperative Work, 1992

#### **Program Committee:**

- Energy 2011—present
- International Workshop on Software Engineering for High Performance Computing System Applications, 2007

- o PROFES 2005-2010
- Workshop on Productivity and Performance in High-End Computing, 2005, 2006
- XP/Agile Universe, 2004
- o International Software Metrics Symposium, 2003, 2004
- International Symposium on Empirical Software Engineering, 2002-2004
- European Conference on Computer Supported Cooperative Work, 1997, 1999

Judge: Hawaii State Science Fair, Honolulu, Hawaii, 1998-present

Founder and Chair: Hawaii Java Users Group, Honolulu, Hawaii, 1996-2010

Member: International Software Engineering Research Network (ISERN), 1996-2010

**Journal article reviewing**: IEEE Transactions on Software Engineering, ACM Transactions on Software Engineering and Methodology, ACM Transactions on Programming Languages and Systems, IEEE Software, IEEE Computer, Journal of Collaborative Computing, Artificial Intelligence in Engineering, Design, and Manufacturing