

Philip M. Johnson

Information and Computer Sciences  
University of Hawaii  
1680 East-West Road  
Honolulu, HI 96822

(808) 956-3489  
fax: (808) 956-3548  
johnson@hawaii.edu  
<http://philipmjohnson.org>

### Professional Preparation

Ph.D. in Computer Science, University of Massachusetts. 1990  
M.S. in Computer Science, University of Massachusetts. 1985  
B.S. in Biology, University of Michigan. 1980  
B.S. in Computer Science, University of Michigan. 1980

### Appointments

*Professor*, Information and Computer Sciences, University of Hawaii. 2001—present  
*Visiting Professor*, School of Engineering, Blekinge Institute of Technology, Sweden, 2006.  
*Associate Professor*, Information and Computer Sciences, University of Hawaii. 1995—2001  
*Senior Research Fellow*, Distributed Systems Technology Centre, University of Queensland, Australia, 1997.  
*Assistant Professor*, Information and Computer Sciences, University of Hawaii. 1990—1995

### Publications: Closely Related

- R.Brewer, Y. Xu, G. Lee, M. Katchuck, C. Moore, P. Johnson, *Three principals for the design of energy feedback visualizations*, International Journal on Advances in Intelligent Systems, Volume 6, No. 3, December 2013.
- R. Brewer, Y. Xu, G. Lee, M. Katchuck, C. Moore, P. Johnson, *Energy feedback for smart grid consumers: Lessons learned from the Kukui Cup*, Proceedings of Energy 2013, Lisbon, Portugal, March 2013.
- P. Johnson, Y. Xu, R. Brewer, C. Moore, G. Lee, A. Connell, *Makahiki+WattDepot: An open source software stack for next generation energy research and education*, Proceedings of the 2012 Conference on Information and Communication Technologies for Sustainability, Zurich, Switzerland, February 2013.
- P. Johnson, Y. Xu, R. Brewer, G. Lee, M. Katchuck, C. Moore, *Beyond kWh: Myths and fixes for energy competition game design*, Proceedings of Meaningful Play 2012, Lansing, Michigan, October 2012.
- R. Brewer and P. Johnson, *WattDepot: An open source software ecosystem for enterprise-scale energy data collection, storage, analysis, and visualization*, Proceedings of the First IEEE International Conference on Smart Grid Communications, Gaithersburg, Maryland, October 2010.

### Publications: Other Significant

- H. Kou and P. Johnson and H. Erdogmus, *Operational Definition and Automated Inference of Test-Driven Development with Zorro*, Journal of Automated Software Engineering, December, 2009.
- P. Johnson and S. Zhang, *We need more coverage, stat! Experiences with the Software ICU*, Proceedings of Empirical Software Engineering and Measurement, October, 2009.
- V. Basili and M. Zelkowitz and D. Sjoberg and P. Johnson and T. Cowling, *Protocols in the use of Empirical Software Engineering Artifacts*, Empirical Software Engineering, Volume 12, February, 2007.

- P. Johnson, *Requirement and Design Trade-offs in Hackystat: An in-process software engineering measurement and analysis system*, Proceedings of the 2007 International Symposium on Empirical Software Engineering and Measurement, Madrid, Spain, September, 2007.
- L. Hochstein and T. Nakamura and V. Basili and S. Asgari and M. Zelkowitz and J. Hollingsworth and F. Shull and J. Carver and M. Voelp and N. Zazworka and P. Johnson, *Experiments to understand HPC time to development*, CTWatch Quarterly, November, 2006.

### **Synergistic Activities**

Project Leader, Hackystat Framework, <http://www.hackystat.org/>.  
Co-founder and interim Chief Technology Officer, HotU, Inc. 2000.  
*Editorial Board*, IEEE Transactions on Software Engineering, 2000-2004.  
*Program Chair*, International Software Engineering Research Network Annual Meeting, 2000.  
*Chair*, Hawaii Java Users Group, 1996-present

### **Collaborators and Co-Editors**

Victor Basili (University of Maryland), Jeff Carver (University of Alabama), Hackan Erdogmus (National Research Council, Canada), Stuart Faulk (University of Oregon), Brian Pentland (Michigan State University), Dan Port (University of Hawaii), Forrest Shull (Fraunhofer-Maryland), Larry Votta (Sun Microsystems), Claes Wohlin (Blekinge Institute of Technology, Sweden), Marvin Zelkowitz (University of Maryland)

### **Graduate Advisors and Postdoctoral Sponsors**

Robert Brewer, Yongwen Xu, Monir Hodges, Aaron Kagawa, Hongbing Kou, Christoph Lofi, Michael Paulding, Carleton Moore, Mette Moffett, Alexey Olkov, Pavel Senin, Danu Tjahjono, Dadong Wan, Takuya Yamashita, Cedric Zhang, Shoaxuan Zhang

### **Thesis Advisor and Postgraduate-Scholar Sponsor**

Jack Wileden, Victor Lesser, Wendy Lehnert, David Stemple (deceased), Daniel Corkill (University of Massachusetts)