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#### Professional Activities

- Ninth International Conference on Peer-to-Peer Systems (P2P 2009)
- International Conference on Distributed Computing Systems (ICDCS 2009)
- 5th IEEE International Conference on Autonomic Computing (ICAC 2008)
- Second IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO 2008)
- 2nd International Conference on Distributed Event-Based Systems (DEBS 2008)
- International Conference on Distributed Computing Systems (ICDCS 2008)
- Symposium on Networked Systems Design and Implementation (NSDI 2008)

#### Publications

- Code-Partitioning Gossip. Lonnie Princehouse and Ken Birman. 5th Workshop on Programming Languages and Operating Systems (PLOS 09). Big Sky, MT. 11 October 2009.
- GO: Platform Support For Gossip Applications. Ymir Vigfusson, Ken Birman, Qi Huang, Deepak P. Nataraj. To Appear in Proceedings of IEEE P2P 2009. Seattle, WA. September 9 - 11.
- Storing and Accessing Live Mashup Content in the Cloud. Krzysztof Ostrowski and Ken Birman. To appear in Proceedings of the 3rd ACM SIGOPS International Workshop on Large Scale Distributed Systems and Middleware (LADIS 2009).
- Towards A Cloud Computing Research Agenda. Ken Birman, Gregory Chockler, Robbert van Renesse. To Appear SIGACT News Distributed Computing Column. June 2009.
- Edge Mashups for Service-Oriented Collaboration. Ken Birman, Jared Cantwell, Daniel Freedman, Qi Huang, Petko Nikolov, and Krzysztof Ostrowski. IEEE Computer. Volume 42, Number 5, pgs 92-96. May 2009
- Building Collaboration Applications That Mix Web Services Hosted Content with P2P Protocols. Ken Birman, Jared Cantwell, Daniel Freedman, Qi Huang, Petko Nikolov, Krzysztof Ostrowski. To Appear in Proceedings of IEEE International Conference on Web Services (ICWS). Los Angeles, CA. July 6-10, 2009.
- Sharing Private Information Across Distributed Databases. Siegenthaler, M. and Birman, K. Submitted to IEEE International Symposium on Network Computing and Applications (IEEE NCA09), Boston, MA, 9-11 July 2009.
- Privacy Enforcement for Distributed Healthcare Queries. Siegenthaler, M. and Birman, K. Pervasive Health 2009, London, UK, 1-3 April 2009.
- Adaptive Gravitational Gossip: A Gossip-Based Communication Protocol with User-Selectable Rates. Kenneth Hopkinson, Kate Jenkins, Kenneth Birman, James Thorp, Gregory Toussaint, and Manu Parashar. To Appear in IEEE Transactions on Parallel and Distributed Systems.

- WS-OBJECTS: Extending Service-Oriented Architecture with Hierarchical Composition of Client-Side Asynchronous Event-Processing Logic. Krzysztof Ostrowski, Ken Birman. Submitted to IEEE 7th International Conference on Web Services (ICWS 2009) July 6-10, 2009, Los Angeles, CA, USA
- Building Collaboration Applications That Mix Hosted and P2P Content. Ken Birman, Jared Cantwell, Daniel Freedman, Qi Huang, Deepak Nataraj, Petko Nikolov, Krzysztof Ostrowski. Submitted to IEEE 7th International Conference on Web Services (ICWS 2009) July 6-10, 2009, Los Angeles, CA, USA
- Achieving Reliability Through Distributed Data Flows and Recursive Delegation. Krzysztof Ostrowski, Ken Birman, Danny Dolev, and Chuck Sakoda. In submission.
- FWP: Featherweight User-Mode Processes with Fast Reflexes. Tudor Marian, Hakim Weatherspoon, Mahesh Balakrishnan (Microsoft Research, Silicon Valley), Ken Birman, Robbert van Renesse. Technical Report. 2009.
- Live Distributed Objects for Service Oriented Collaboration. Ken Birman, Jared Cantwell, Daniel Freedman, Qi Huang, Petko Nikolov, Krzysztof Ostrowski. Third International Conference on Intelligent Technologies for Interactive Entertainment (Intetain '09), Demo Track. Amsterdam, The Netherlands. June 22, 2009.
- Slicing Distributed Systems. Vincent Gramoli, Ymir Vigfusson, Ken Birman, Anne-Marie Kermarrec, Robbert van Renesse. To appear in IEEE Transactions on Computers, Special Issue on Autonomic Network Computing, June 2009.
- Sharing Private Information Across Distributed Databases. Siegenthaler, M. and Birman, K. IEEE International Symposium on Network Computing and Applications (IEEE NCA09), Boston, MA, 9-11 July 2009. Privacy Enforcement for Distributed Healthcare Queries. Siegenthaler, M. and Birman, K. PervasiveHealth 2009, London, UK, 1-3 April 2009.
- Adaptive Gravitational Gossip: A Gossip-Based Communication Protocol with User-Selectable Rates. Kenneth Hopkinson, Kate Jenkins, Kenneth Birman, James Thorp, Gregory Toussaint, and Manu Parashar. To Appear in IEEE Transactions on Parallel and Distributed Systems. 2009.
- Smoke and Mirrors: Reflecting Files at a Geographically Remote Location Without Loss of Performance. Hakim Weatherspoon, Lakshmi Ganesh, Tudor Marian, Mahesh Balakrishnan (MSR), and Ken Birman. To Appear in Proceedings of 7th USENIX Conference on File and Storage Technologies (FAST '09). San Francisco, CA. February 24-27, 2009.
- The Monoculture Risk Put into Context. Fred B. Schneider and Ken Birman. IEEE Security & Privacy. Volume 7, Number 1. Pages 14-17. January/February 2009.
- Program Committee Overload in Systems. Ken Birman and Fred B. Schneider. Accepted, CACM Viewpoints, Feb. 2009.
- Dr. Multicast: Rx for Data Center Communication Scalability. Ymir Vigfusson, Hussam Abu-Libdeh, Mahesh Balakrishnan, Ken Birman, and Yoav Tock. Cornell University Technical Report (TR 1813\11587). November 2009
- SOLO: Self Organizing Live Objects. Qi Huang (Huazhong University of Science and Technology), Ken Birman. Technical Report. December 2008.
- Ajil: Distributed Rate-limiting for Multicast Networks. Hussam Abu-Libdeh, Ymir Vigfusson, Ken Birman, and Mahesh Balakrishnan (Microsoft Research, Silicon Valley). Technical Report. December 2008.

## Lectures

- Keynote Speaker, 29th Int'l Conference on Distributed Computing Systems (ICDCS 2009). Montreal, Quebec, Canada. June 2009.
- Distinguished Lecture, Triangle Distinguished Lecture Series. University of North Carolina, Chapel Hill, NC. November 2008.
- Distinguished Lecture, Harvard University Colloquium Series. Harvard University, Harvard, MA. November 2008.
- Distinguished Lecture, Cray Colloquium Lecture Series. University of Minnesota, Duluth, MN. October 2008
- Keynote Speaker, 5th IEEE International Conference on Autonomic Computing. Chicago, IL. June 2008.
- Using Live Distributed Objects for Office Automation. Jong Hoon Ahnn, Ken Birman, Krzysztof Ostrowski, Robbert van Renesse. In proceedings of the ACM/IFIP/USENIX 9th International Middleware Conference. Leuven, Belgium. December 2008.
- Dr. Multicast: Rx for Datacenter Communication Scalability. Ymir Vigfusson, Hussam Abu-Libdeh, Mahesh Balakrishnan, Ken Birman, Yoav Tock. HotNets VII: Seventh ACM Workshop on Hot Topics in Networks. October 6-7, 2008. Calgary, Canada.
- Smoke and Mirrors: Shadowing Files at a Geographically Remote Location Without Loss of Performance. Hakim Weatherspoon, Lakshmi Ganesh, Tudor Marian, Mahesh Balakrishnan, and Ken Birman. Large-Scale Distributed Systems and Middleware (LADIS). September 15-17, 2008. Yorktown, NY.
- QuickSilver Scalable Multicast (QSM). Krzysztof Ostrowski, Ken Birman, Danny Dolev. 7th IEEE International Symposium on Network Computing and Applications (IEEE NCA 2008). Cambridge, MA. July 2008.
- Programming with Live Distributed Objects. Krzysztof Ostrowski, Ken Birman, Danny Dolev, and Jong Hoon Ahnn. 22nd European Conference on Object-Oriented Programming (ECOOP 2008). Cyprus. July 2008.
- Supporting Timeliness and Reliability via DDS and Ricochet. Joe Hoffert, Douglas Schmidt, Mahesh Balakrishnan, Ken Birman. OMG Workshop on Distributed Object Computing for Real-time and Embedded Systems. July 2008, Washington DC.
- SENSTRAC: Scalable Querying of SENSor Networks from Mobile Platforms Using TRACking-Style Queries. Stefan Pleisch and Ken Birman. International Journal of Sensor Networks. Volume 3, Issue 4. Pages 266-280. June 2008.

## New Honors

- Appointed N. Rama Rao Professor of Computer Science, 2009
- IEEE Technical Committee on Distributed Processing Outstanding Achievement Award (2009)