
Dr. Ben Yanbin Zhao

Department of Computer Science
University of California at Santa Barbara
1123 Harold Frank Hall
Santa Barbara, CA 93106

Email: ravenben@cs.ucsb.edu
Tel: (805) 893-3417
Fax: (805) 893-8553
<http://www.cs.ucsb.edu/~ravenben>

EDUCATION

University of California at Berkeley Ph.D. in Computer Science: advisors John Kubiatawicz and Anthony Joseph. M.S. in Computer Science: advisor Anthony Joseph	Berkeley, CA August, 2004 December, 2000
Yale University B.S. in Computer Science Graduated Cum Laude and Distinction in the Major	New Haven, CT May, 1997

RESEARCH INTERESTS

- Online Social Networks
- Data Mining
- Cloud Computing
- Security and Privacy
- Dynamic Spectrum Networks
- Distributed Systems

APPOINTMENTS

University of California at Santa Barbara Associate Professor of Computer Science	Santa Barbara, CA July 2010 – Present
University of California at Santa Barbara Assistant Professor of Computer Science	Santa Barbara, CA July 2004 – June 2010
BSocialBSafe LLC. Technical Advisory Board	San Francisco, CA April 2011 -- Present
PeerAnt Inc. Technical Advisory Board	Sunnyvale, CA March 2007 – December 2009
Microsoft Research, UK Visiting Researcher	Cambridge, UK July 2007 – August 2007
University of California at Berkeley Graduate Student Researcher Principal architect of the Tapestry structured peer-to-peer network and founding member of the OceanStore project on highly persistent global-scale storage.	Berkeley, CA August 1997 – June 2004
IBM Almaden Research Center Visiting Researcher, TSpaces Group	San Jose, CA June 1999 – June 2000

HONORS AND AWARDS

- **More than 14,000 academic citations of my work** (Google Scholar)
- **Research cited by *MIT Technology Review*, *NY Times*, *Boston Globe*, *New Scientist*, *Slashdot*, etc ...**
- **World Class Scholar**, World Class University program, Korean Research Foundation, 2010-2012
- **UCSB Regent Faculty Fellowship**, 2009
- **ComputerWorld Magazine Top IT Innovators under 40**, 2007
- **MIT Technology Review TR-35** (Top 35 Technological Innovators under Age 35), 2006

- **NSF CAREER Award**, 2005
- **Best Student Paper Award**, *USENIX Conference on File and Storage Technologies (FAST)*, 2003
- **Best Paper Award**, *ACM International Workshop on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM)*, 2001
- **Best Paper Award**, *IEEE Computer Networks*, 2001
- **U. C. Regents Fellowship**, 1998
- **Cum Laude and Distinction in Major**, Yale University, 1997
- **Tau Beta Pi**, Yale University, 1996
- **Congressional Youth Scholar**, 1993

PROFESSIONAL AFFILIATIONS

Member, Association for Computing Machinery (ACM)

Member, ACM SIGOPS

Member, ACM SIGCOMM

Member, ACM SIGMOBILE

Member of USENIX

PROFESSIONAL ACTIVITIES

Technical Program Committees

- **ACM International Conference on Web Search and Data Mining (WSDM)**, 2013
- **IEEE Annual Conference on Computer Communications (INFOCOM)**, 2008, 2009, 2010, 2013
- **ACM Internet Measurement Conference (IMC)**, 2012
- **ACM SIGCOMM International Workshop on Online Social Networks (WOSN)**, 2010, 2012
- **ACM EuroSys International Workshop on Social Network Systems (SNS)**, 2010, 2012
- **The 21st International World Wide Web Conference (WWW)**, 2012
- **IEEE Conference on Peer-to-Peer Computing (P2P)**, 2009, 2010, 2012
- **ACM International Conference on emerging Networking EXperiments and Technologies (CoNEXT)**, 2011
- **ACM/IFIP/USENIX International Middleware Conference (Middleware)**, 2010, 2011
- **IEEE Workshop on Simplifying Complex Networks for Practitioners (SIMPLEX)**, 2011
- **ACM 12th Workshop on Mobile Computing Systems and Applications (HotMobile)**, 2011
- **ACM 9th Workshop on Hot Topics in Networks (HotNets)**, 2010
- **IEEE Conference on World of Wireless, Mobile and Multimedia Networks (WoWMoM)**, 2010
- **IEEE International Conference on Distributed Computing Systems (ICDCS)**, 2005, 2006, 2007, 2009, 2010
- **IEEE Symposium on Reliable Distributed Systems (SRDS)**, 2009
- **ICST Conference on Security and Privacy in Communication Networks (SecureComm)**, 2009
- **International Conference on Web Information Systems Engineering (WISE)**, 2009
- **International Workshop on Performance Modeling and Evaluation (PMECT)**, 2007, 2008, 2009
- **IEEE International Workshop on Performance Modeling and Analysis of Communication in Wired and Wireless Networks (PMAC-2WN)**, 2006, 2007, 2008
- **IEEE International Conference on Parallel and Distributed Systems (ICPADS)**, 2007, 2008
- **IEEE International Workshop on Mobile Vehicular Networks (MoVeNet)**, 2007
- **IEEE International Conference on Network Protocols (ICNP)**, 2006, 2007
- **IEEE International Workshop on Quality of Service (IWQoS)**, 2007

- **International Workshop on Dependable and Sustainable Peer-to-Peer Systems (DAS-P2P)**, 2007
- **ACM Workshop on Decentralized Resource Sharing in Mobile Computing and Networking (MobiShare)**, 2006
- **ACM Workshop on Scalable Trusted Computing (STC)**, 2006
- **International Workshop on Peer-to-Peer Systems (IPTPS)**, 2005, 2006
- **Advanced in Peer-to-Peer Multimedia Streaming (P2MS)**, 2005
- **ACM Workshop on Wireless Security (WiSe)**, 2005
- **International Workshop on Applications and Economics of P2P Systems (AEPP)**, 2005
- **IFIP Networking Conference**, 2005
- **International Workshop on Mobile Peer-to-Peer Computing (MP2P)**, 2004

Editorship

- **Guest Editor**, Journal of Advances in Multimedia, Special Issue: “Towards Next-Generation Peer-to-Peer Services,” Hindawi, 2007.
- **Guest Editor**, Concurrency and Computation: Practice and Experience, Special Issue: “Recent Advances in Peer-to-Peer Systems and Security,” Wiley, 2007.

Conference Organization

- **Program Co-Chair**, SIGCOMM Workshop on Online Social Networks (WOSN), 2012
- **Program Co-Chair**, IEEE Conference on Peer-to-Peer Computing (P2P), 2010
- **Global Chair**, European Conference on Parallel Processing (Euro-Par) Topic 7, 2009
- **Steering Committee**, International Workshop on Peer-To-Peer Systems (IPTPS), 2007 - Present
- **Program Co-Chair**, International Workshop on Peer-To-Peer Systems (IPTPS), 2006
- **Web Chair**, IEEE International Conference on Network Protocols (ICNP), 2006
- **Steering Committee**, Applications and Economics of Peer-to-Peer Systems (AEPP)
- **Panel Chair**, Applications and Economics of Peer-to-Peer Systems (AEPP), 2005

Other Appointments

- National Science Foundation (NSF) Invited Proposal Funding Panelist
 - CNS Panel: CISE Core, 2005, 2006, 2007, 2008, 2011, 2012
 - CNS Panel: CISE Cross-cutting, 2005, 2009, 2010, 2011
 - CNS Panel: CAREER, 2006, 2007
- Hong Kong Research Grants Council Panelist: 2007, 2009, 2010, 2011, 2012
- Canadian Research Council Panelist: 2009, 2010, 2011, 2012
- Greece Ministry of Education Research Panelist: 2011
- Qatar Computing Research Institute Research Panelist: 2011

PUBLICATIONS

Journal Articles

1. “Measurement-based Design of Roadside Content Delivery Systems.” Vinod Kone, Haitao Zheng, Ant Rowstron, Greg O’Shea and Ben Y. Zhao. *To Appear: IEEE Transactions on Mobile Computing*, 2012.
2. “The Effectiveness of Opportunistic Spectrum Access: A Measurement Study.” Vinod Kone, Lei Yang, Xue Yang, Ben Y. Zhao and Haitao Zheng. *To Appear: ACM/IEEE Transactions on Networking*, 2012.

3. "Beyond Social Graphs: User Interactions in Online Social Networks and their Implications." Christo Wilson, Alessandra Sala, Krishna P. N. Puttaswamy, and Ben Y. Zhao. To appear: *ACM Transactions on the Web*, 2012.
4. "AirLab: Consistency, Fidelity and Privacy in Wireless Measurements." Vinod Kone, Mariya Zheleva, Mike Wittie, Ben Y. Zhao, Elizabeth Belding, Haitao Zheng, Kevin Almeroth. *ACM SIGCOMM Computer Communication Review (CCR)*, Vol. 41, No. 1, Pgs. 60-65, January 2011.
5. "Papyrus: A Software Platform for Distributed Dynamic Spectrum Sharing Using SDRs." Lei Yang, Zengbin Zhang, Wei Hou, Ben Y. Zhao, and Haitao Zheng. *ACM SIGCOMM Computer Communication Review (CCR)*. Vol. 41, No. 1, Pgs. 32-37, January 2011.
6. "The Impact of Infostation Density on Vehicular Data Dissemination." Vinod Kone, Haitao Zheng, Antony Rowstron and Ben Y. Zhao. *ACM Mobile Networking and Applications (MONET)*. 2010.
7. "Protector: a Probabilistic Failure Detector for Cost-effective Peer-to-Peer Storage." Zhi Yang, Jian Tian, Wei Chen, Ben Y. Zhao and Yafei Dai. *IEEE Transactions on Parallel and Distributed Systems (TPDS)*. 2010.
8. "The Design of a Reliable Reputation System." Gayatri Swamynathan, Kevin Almeroth and Ben Y. Zhao. *Electronic Commerce Research Journal, Special Issue on Trust and Privacy Aspects of Electronic Commerce*, Vol. 10, No. 3-4, Pages 239-270, 2010.
9. "Peer-exchange schemes to handle mismatch in peer-to-peer systems." Tongqing Qiu, Edward Chan, Mao Ye, Guihai Chen, and Ben Y. Zhao. *The Journal of Supercomputing*, April 2009, Vol. 48, No. 1, Pgs. 15-42.
10. "Securing Structured Overlays Against Identity Attacks." Krishna P. N. Puttaswamy, Haitao Zheng and Ben Y. Zhao. *IEEE Transactions on Parallel and Distributed Systems*. October 2009, Vol. 20, No. 10, Pgs. 1487-1498.
11. "QUORUM-QUality Of service RoUting in wireless Mesh networks." Vinod Kone, Sudipto Das, Ben Y. Zhao and Haitao Zheng. *ACM Mobile Networks and Applications (MONET)*. December 2007, Vol. 12, No. 5-6, Pgs. 358-369.
12. "Globally Decoupled Reputations for Large Distributed Networks." Gayatri Swamynathan, Ben Y. Zhao, Kevin C. Almeroth and Haitao Zheng. *Hindawi Advances in Multimedia, Special Issue on Towards Next-Generation Peer-to-Peer Services*. Vol. 2007, No. 1, 2007.
13. "Exploring the Feasibility of Proactive Reputations." Gayatri Swamynathan, Ben Y. Zhao and Kevin C. Almeroth. *Wiley Concurrency and Computation: Practice and Experience, Special Issue on Recent Advances in Peer-to-Peer Systems and Security*. May 2007, Vol. 20, No. 2, Pgs. 155-166.
14. "Determining Model Accuracy of Network Traces." Almudena Konrad, Ben Y. Zhao, and Anthony D. Joseph. *Elsevier Journal of Computer and System Sciences*. November 2006, Vol. 72, No. 7, Pgs. 1156-1171.
15. "Collaboration and Fairness in Opportunistic Spectrum Access." Chunyi Peng, Haitao Zheng, and Ben Y. Zhao. *ACM Mobile Networks and Applications (MONET)*. May 2006, Vol. 11, Pgs. 555-576.
16. "Tapestry: A Resilient Global-scale Overlay for Service Deployment." Ben Y. Zhao, Ling Huang, Jeremy Stribling, Sean C. Rhea, Anthony D. Joseph, and John Kubiawicz. *IEEE Journal on Selected Areas in Communications (JSAC)*. January 2004, Vol. 22, No. 1, Pgs. 41-53.
17. "Distributed Object Location in a Dynamic Network." Kirsten Hildrum, John D. Kubiawicz, Satish Rao and Ben Y. Zhao. *Springer-Verlag Theory of Computing Systems*, March 2004, No. 37, Pgs.

405-440.

18. "A Markov-Based Channel Model Algorithm for Wireless Networks." Almudena Konrad, Ben Y. Zhao, Anthony D. Joseph and Reiner Ludwig. *ACM Baltzer Wireless Networks*, May 2003, Vol. 9, No. 3, Pgs. 189-199.
19. "Maintenance-Free Global Storage in OceanStore." Sean Rhea, Chris Wells, Patrick Eaton, Dennis Geels, Ben Zhao, Hakim Weatherspoon, and John Kubiatowicz. *IEEE Internet Computing*, Sept/Oct 2001, Vol. 5, No. 5, Pgs. 40-49.
20. "An Architecture for Secure Wide-Area Service Discovery." Todd D. Hodes, Steven E. Czerwinski, Ben Y. Zhao, Anthony D. Joseph, Randy H. Katz. *ACM Baltzer Wireless Networks*, March 2002, Vol. 8, No. 2-3, Pgs. 213-230.
21. "The Ninja Architecture for Robust Internet-Scale Systems and Services." Steven D. Gribble, Matt Welsh et. al. *IEEE Computer Networks Special Issue on Pervasive Computing*, March 2001, Vol. 35, No. 4. Best Paper Award.
22. "ICEBERG: An Internet-core Network Architecture for Integrated Communications." Helen J. Wang, Bhaskaran Raman, et. al. *IEEE Communications: Special Issue on IP-based Mobile Telecommunication Networks*, August 2000.

Books and Chapters

23. "Invisible Interactions: What Latent Social Interaction Can Tell Us about Social Relationships in Social Networking Sites." Miriam Metzger, Christo Wilson, Rebekah Pure, and Ben Y. Zhao. To Appear in *Networked sociability and individualism. Technology for personal and professional relationships*, Editor Francesca Comunello. In Press, 2011.
24. *Future Directions in Distributed Computing*. Editors: Alex Shvartsman, Andre Schiper, Hakim Weatherspoon and Ben Y. Zhao. Springer-Verlag, LNCS 2584, 2003.

Conference and Workshop Proceedings

25. "Mirror Mirror on the Ceiling: Flexible Wireless Links for Data Centers." Xia Zhao, Zengbin Zhang, Yibo Zhu, Yubo Li, Saipriya Kumar, Amin Vahdat, Ben Y. Zhao and Haitao Zheng. Proceedings of *ACM SIGCOMM*, Helsinki, Finland, August 2012.
26. "Shortest Paths in Less Than a Millisecond." Rachit Agarwal, Matthew Caesar, P. Brighten Godfrey and Ben Y. Zhao. Proceedings of *SIGCOMM Workshop on Online Social Networks (WOSN)*, Helsinki, Finland, August 2012.
27. "Enforcing Dynamic Spectrum Access with Spectrum Permits." Lei Yang, Zengbin Zhang, Ben Y. Zhao, Christopher Kruegel and Haitao Zheng. Proceedings of the *13th International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)*, Hilton Head Island, SC, June 2012.
28. "Serf and Turf: Crowdturfing for Fun and Profit." Gang Wang, Christo Wilson, Xiaohan Zhao, Yibo Zhu, Manish Mohanlal, Haitao Zheng and Ben Y. Zhao. Proceedings of *The 21st International World Wide Web Conference (WWW)*, Lyon, France, April 2012.
29. "3D Beamforming for Wireless Data Centers." Weile Zhang, Xia Zhou, Lei Yang, Zengbin Zhang, Ben Y. Zhao and Haitao Zheng. Proceedings of *10th ACM Workshop on Hot Topics in Networks (HotNets-X)*, Cambridge, MA, November 2011.
30. "Efficient Shortest Paths on Massive Social Graphs." Xiaohan Zhao, Alessandra Sala, Haitao Zheng and Ben Y. Zhao. (Invited Paper) Proceedings of *7th International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom)*, Orlando, FL, October

2011.

31. "Scaling Microblogging Services with Divergent Traffic Demands." Tianyin Xu, Yang Chen, Lei Jiao, Ben Zhao, Pan Hui and Xiaoming Fu. Proceedings of the 12th *ACM/IFIP/USENIX International Middleware Conference (Middleware)*, Lisboa, Portugal, December 2011.
32. "Sharing Graphs using Differentially Private Graph Models." Alessandra Sala, Xiaohan Zhao, Christo Wilson, Haitao Zheng and Ben Y. Zhao. Proceedings of the 11th *ACM SIGCOMM International Measurement Conference (IMC)*, Berlin, Germany, November 2011.
33. "Uncovering Social Network Sybils in the Wild." Zhi Yang, Christo Wilson, Xiao Wang, Tingting Gao, Ben Y. Zhao and Yafei Dai. Proceedings of the 11th *ACM SIGCOMM International Measurement Conference (IMC)*, Berlin, Germany, November 2011.
34. "Silverline: Toward Data Confidentiality in Storage-Intensive Cloud Applications." Krishna P. N. Puttaswamy, Chris Kruegel and Ben Y. Zhao. *Proceedings of The 2nd ACM Symposium on Cloud Computing (SoCC)*, Cascais, Portugal, October 2011.
35. "I Am the Antenna: Accurate Outdoor AP Location using Smartphones." Zengbin Zhang, Xia Zhou, Weile Zhang, Yuanyang Zhang, Gang Wang, Ben Y. Zhao, and Haitao Zheng. *Proceedings of The 16th Annual International Conference on Mobile Computing and Networking (MOBICOM)*, Las Vegas, NV, September 2011.
36. "Privacy, Availability and Economics in the Polaris Mobile Social Network." Christo Wilson, Troy Steinbauer, Gang Wang, Alessandra Sala, Haitao Zheng and Ben Y. Zhao. *Proceedings of 12th ACM Workshop on Mobile Computing Systems and Applications (HotMobile)*, Phoenix, AZ, March 2011.
37. "Exploiting Locality of Interest in Online Social Networks." Mike P. Wittie, Veljko Pejovic, Lara Deek, Kevin C. Almeroth and Ben Y. Zhao. Proceedings of the 6th *International Conference on emerging Networking EXperiments and Technologies (CoNEXT)*, Philadelphia, PA, December, 2010.
38. "Understanding Latent Interactions in Online Social Networks." Jing Jiang, Christo Wilson, Xiao Wang, Peng Huang, Wenpeng Sha, Yafei Dai and Ben Y. Zhao. Proceedings of the 10th *ACM SIGCOMM International Measurement Conference (IMC)*, Melbourne, Australia, November, 2010.
39. "Detecting and Characterizing Social Spam Campaigns." Hongyu Gao, Jun Hu, Christo Wilson, Zhichun Li, Yan Chen and Ben Y. Zhao. Proceedings of the 10th *ACM SIGCOMM International Measurement Conference (IMC)*, Melbourne, Australia, November, 2010.
40. "On the Feasibility of Effective Opportunistic Spectrum Access." Vinod Kone, Lei Yang, Xue Yang, Ben Y. Zhao and Haitao Zheng. Proceedings of the 10th *ACM SIGCOMM International Measurement Conference (IMC)*, Melbourne, Australia, November, 2010.
41. "The Spaces Between Us: Setting and Maintaining Boundaries in Wireless Spectrum Access." Lei Yang, Ben Y. Zhao, and Haitao Zheng. Proceedings of the 16th *Annual International Conference on Mobile Computing and Networking (MOBICOM)*, Chicago IL, September, 2010.
42. "Orion: Shortest Path Estimation for Large Social Graphs." Xiaohan Zhao, Alessandra Sala, Christo Wilson, Haitao Zheng and Ben Y. Zhao. Proceedings of the 3rd *Workshop on Online Social Networks (WOSN)*, Boston MA, June 2010.
43. "Don't Tread on Me: Moderating Access to OSN Data with SpikeStrip." Christo Wilson, Alessandra Sala, Joseph Bonneau, Robert Zablit and Ben Y. Zhao. Proceedings of the 3rd *Workshop on Online Social Networks (WOSN)*, Boston MA, June 2010.
44. "Coexistence-Aware Scheduling for Wireless System-on-a-Chip Devices." Lei Yang, Vinod Kone, Xue Yang, York Liu, Ben Y. Zhao and Haitao Zheng. Proceedings of the 7th *IEEE Conference on Sensor*,

- Mesh, and Ad Hoc Communications and Networks (SECON)*, Boston MA, June 2010.
45. "AmazingStore: Available, Low-cost Online Storage Service Using Cloudlets." Zhi Yang, Ben Y. Zhao, Yuanjian Xing, Song Ding, Feng Xiao and Yafei Dai. Proceedings of the *9th International Workshop on Peer-to-Peer Systems (IPTPS)*, San Jose, CA, April 2010.
 46. "Measurement-calibrated Graph Models for Social Network Experiments." Alessandra Sala, Lili Cao, Christo Wilson, Robert Zablit, Haitao Zheng and Ben Y. Zhao. Proceedings of the *19th World Wide Web Conference (WWW)*, Raleigh, NC, April 2010.
 47. "Supporting Demanding Wireless Applications with Frequency-agile Radios." Lei Yang, Wei Hou, Lili Cao, Ben Y. Zhao and Haitao Zheng. Proceedings of *7th USENIX Symposium on Networked Systems Design and Implementation (NSDI)*, San Jose, CA, April 2010.
 48. "On Infostation Density of Vehicular Networks." Vinod Kone, Haitao Zheng, Antony Rowstron and Ben Y. Zhao. Proceedings of *5th Annual International Wireless Internet Conference (WICON)*, Singapore, March 2010.
 49. "Preserving Privacy in Location-based Mobile Social Applications." Krishna P. N. Puttaswamy and Ben Y. Zhao. Proceedings of *11th Workshop on Mobile Computing Systems and Applications (ACM HotMobile)*, Annapolis, MD, February 2010.
 50. "StarClique: Guaranteeing User Privacy in Social Networks Against Intersection Attacks." Krishna P. N. Puttaswamy, Alessandra Sala, and Ben Y. Zhao. Proceedings of *ACM Conference on emerging Networking EXperiments and Technologies (CoNEXT)*, Rome, Italy, December, 2009.
 51. "User Interactions in Social Networks and their Implications." Christo Wilson, Bryce Boe, Alessandra Sala, Krishna P. N. Puttaswamy and Ben Y. Zhao. Proceedings of *the 4th ACM European Conference on Computer Systems (EuroSys)*, Nuremberg, Germany, April, 2009.
 52. "Rome: Performance and Anonymity using Route Meshes." Krishna P. N. Puttaswamy, Alessandra Sala, Omer Egecioglu, and Ben Y. Zhao. Proceedings of *the 28th IEEE International Conference on Computer Communications (INFOCOM), Mini-symposium*, Rio de Janeiro, Brazil, April 2009.
 53. "Improving Anonymity using Social Links." Krishna P. N. Puttaswamy, Alessandra Sala, and Ben Y. Zhao. Proceedings of *Fourth IEEE International Workshop on Secure Network Protocols (NPSec 2008)*, Orlando, FL, October 2008.
 54. "Defending Anonymity against Predecessor Attacks in Bluemoon." Krishna P. N. Puttaswamy, Alessandra Sala, Christo Wilson, and Ben Y. Zhao. Proceedings of *IEEE International Conference on Network Protocols (ICNP 2008)*, Orlando, FL, October 2008.
 55. "Towards Reliable Reputations for Dynamic Networked Systems." Gayatri Swamynathan, Ben Y. Zhao, Kevin C. Almeroth, and S. Rao Jammalamadaka. Proceedings of *IEEE Symposium on Reliable Distributed Systems (SRDS 2008)*, Naples, Italy, October 2008.
 56. "Probabilistic Failure Detection for Efficient Distributed Storage Maintenance." Jing Tian, Zhi Yang, Wei Chen, Ben Y. Zhao and Yafei Dai. Proceedings of *IEEE Symposium on Reliable Distributed Systems (SRDS 2008)*, Naples, Italy, October 2008.
 57. "Do Social Networks Improve e-Commerce: a Study on Social Marketplaces." Gayatri Swamynathan, Christo Wilson, Bryce Boe, Kevin C. Almeroth and Ben Y. Zhao. Proceedings of *First SIGCOMM Workshop on Online Social Networks (WOSN 2008)*, Seattle, WA, August 2008.
 58. "High Throughput Spectrum-aware Routing for Cognitive Radio Based Ad-hoc Networks." Ashwin Sampath, Lei Yang, Lili Cao, Haitao Zheng, and Ben Y. Zhao. Proceedings of *the 3rd International Conference on Cognitive Radio Oriented Wireless Networks and Communications (CROWNCOM*

- 2008), Singapore, May 2008.
59. "Searching for Rare Objects using Index Replication." Krishna P. N. Puttaswamy, Alessandra Sala and Ben Y. Zhao. Proceedings of *the 27th IEEE International Conference on Computer Communications (INFOCOM)*, Phoenix, AZ, April 2008.
 60. "Towards Location-aware Topology in both Unstructured and Structured P2P Systems." Tongqing Qiu, Edward Chan, Mao Ye, Guihai Chen and Ben Y. Zhao. Proceedings of *International Conference on Parallel Processing (ICPP)*, XiAn, China, September 2007.
 61. "QUORUM - Quality Of service RoUting in wireless Mesh networks." Vinod Kone, Sudipto Das, Ben Y. Zhao and Haitao Zheng. Proceedings of *International Conference on Heterogeneous Networking for Quality, Reliability, Security and Robustness (QShine)*, Vancouver, BC, Canada, August 2007.
 62. "Multi-channel Jamming Attacks using Cognitive Radios." Ashwin Sampath, Hui Dai, Haitao Zheng and Ben Y. Zhao. Proceedings of the *16th International Conference on Computer Communications and Networks (ICCCN)*, Honolulu, HI, August 2007.
 63. "Fairness Attacks in the Explicit Control Protocol." Christo Wilson, Chris Coakley and Ben Y. Zhao. Proceedings of *Fifteenth IEEE International Workshop on Quality of Service (IWQoS)*, Chicago, IL, June 2007.
 64. "A Case for Unstructured Distributed Hash Tables." Krishna P. N. Puttaswamy and Ben Y. Zhao. Proceedings of *IEEE Global Internet Symposium*, Anchorage, AK, May 2007.
 65. "Deploying Video-on-Demand Services on Cable Networks." Matthew Allen, Ben Y. Zhao and Rich Wolski. Proceedings of *IEEE International Conference on Distributed Computing Systems (ICDCS)*, Toronto, Canada, June 2007.
 66. "An Empirical Study of Collusion Behavior in the Maze P2P File-Sharing System." Qiao Lian, Zheng Zhang, Mao Yang, Ben Y. Zhao, Yafei Dai and Xiaoming Li. Proceedings of *IEEE International Conference on Distributed Computing Systems (ICDCS)*, Toronto, Canada, June 2007.
 67. "HPTP: Relieving the Tension between ISPs and P2P." Guobin Shen, Ye Wang, Yongqiang Xiong, Ben Y. Zhao and Zhi-Li Zhang. *Proceedings of the 6th International Workshop on Peer-to-Peer Systems (IPTPS)*, Bellevue, WA, February 2007.
 68. "Scalable Access Control for Web Services." Gayatri Swamynathan, Tyler Close, Sujata Banerjee, Rick McGeer, Ben Y. Zhao and Kevin C. Almeroth. *Proceedings of C5*, Kyoto, Japan, January 2007.
 69. "Integrated Data Location in Multi-hop Wireless Networks." Irfan Sheriff, Prashanth Acharya, Ashwin Sampath, Ben Y. Zhao and Elizabeth Belding. *Proceedings of IEEE/Create-Net COMSWARE*, Bangalore, India, January 2007.
 70. "Increasing TCP Throughput with an Enhanced Control Plane." A. Bavier et al. *Proceedings of MILCOM*, Washington, DC, October 2006.
 71. "Energy Consumption and Conservation in Mobile Peer-to-Peer Systems." Selim Gurun, Priya Nagpurkar and Ben Y. Zhao. *Proceedings of ACM MobiShare*, Los Angeles, CA, September 2006.
 72. "Location Independent Compact Routing for Wireless Networks." Robert Gilbert, Kerby Johnson, Shaomei Wu, Ben Y. Zhao and Haitao Zheng. *Proceedings of ACM MobiShare*, Los Angeles, CA, September 2006.
 73. "Understanding User Behavior in Large Scale Video-on-Demand Systems." Hongliang Yu, Dongdong Zheng, Ben Y. Zhao and Weimin Zheng. *Proceedings of the 1st European Conference on Computer Systems (EuroSys)*, Leuven, Belgium, April 2006.

74. "Parallelizing Skyline Queries for Scalable Distribution." Ping Wu, Caijie Zhang, Ying Feng, Ben Y. Zhao, Divyakant Agrawal and Amr El Abbadi. *Proceedings of the 10th International Conference on Extending Database Technology (EDBT)*, Munich, Germany, March 2006.
75. "Exploring the Feasibility of Proactive Reputations." Gayatri Swamynathan, Ben Y. Zhao and Kevin C. Almeroth. *Proceedings of the 5th International Workshop on Peer-to-Peer Systems (IPTPS)*, Santa Barbara, CA, February 2006.
76. "Identity Theft Protection in Structured Overlays." Lakshmi Ganesh and Ben Y. Zhao. *Proceedings of the 1st Workshop on Secure Network Protocols (NPSec)*, Boston, MA, November 2005.
77. "Decoupling Service and Feedback Trust in a Peer-to-Peer Reputation System." Gayatri Swamynathan, Ben Y. Zhao and Kevin Almeroth. *Proceedings of the 1st International Workshop on Applications and Economics of Peer-to-Peer Systems (AEPP)*, Nanjing, China, November 2005.
78. "Z-Ring: Fast Prefix Routing via a Low Maintenance Membership Protocol." Wei Chen, Qiao Lian, Zheng Zhang, Shaomei Wu, and Ben Y. Zhao. *Proceedings of the 13th IEEE International Conference on Network Protocols (ICNP)*, Boston, MA, November 2005.
79. "Choosing an Accurate Network Model using Domain Analysis." Almudena Konrad, Ben Y. Zhao and Anthony D. Joseph. *Proceedings of the 1st International Workshop on Performance Modeling in Wired, Wireless, Mobile Networking and Computing*, Fukuoka, Japan, July 2005.
80. "Cashmere: Resilient Anonymous Routing." Li Zhuang, Feng Zhou, Ben Y. Zhao and Antony Rowstron. *Proceedings of the 2nd Symposium on Networked Systems Design and Implementation (NSDI)*, Boston, MA, May 2005.
81. "Impact of Neighbor Selection on Performance and Resilience of Structured P2P Networks." Byung-Gon Chun, John Kubiawicz and Ben Y. Zhao. *Proceedings of the 4th International Workshop on Peer-To-Peer Systems (IPTPS)*, Ithaca, NY, February 2005.
82. "Hybrid Overlay Structure Based on Random Walk." Ruixiong Tian, Yongqiang Xiong, Qian Zhang, Bo Li, Ben Y. Zhao and Xing Li. *Proceedings of the 4th International Workshop on Peer-To-Peer Systems (IPTPS)*, Ithaca, NY, February 2005.
83. "Deployment of a large scale peer-to-peer social network." Mao Yang, Hua Chen, Ben Y. Zhao, Yafei Dai and Zheng Zhang. *Proceedings of the 1st Workshop on Real, Large Distributed Systems (WORLDS)*, San Francisco, CA, December 2004.
84. "Rapid Mobility via Type Indirection." Ben Y. Zhao, Ling Huang, Anthony D. Joseph and John D. Kubiawicz. *Proceedings of the 3rd International Workshop on Peer-to-Peer Systems (IPTPS)*, San Diego, CA, February 2004.
85. "Exploiting Routing Redundancy via Structured Peer-to-Peer Overlays." Ben Y. Zhao, Ling Huang, Jeremy Stribling, Anthony D. Joseph and John D. Kubiawicz. *Proceedings of the 11th IEEE International Conference on Network Protocols (ICNP)*, Atlanta, GA, November 2003.
86. "Approximate Object Location and Spam Filtering on Peer-to-Peer Systems." Feng Zhou, Li Zhuang, Ben Y. Zhao, Ling Huang, Anthony Joseph, and John Kubiawicz. *Proceedings of ACM/IFIP International Conference on Middleware*, Rio de Janeiro, Brazil, June 2003.
87. "Towards a Common API for P2P Overlays." Frank Dabek, Ben Y. Zhao, Peter Druschel, Ion Stoica and John Kubiawicz. *Proceedings of 2nd International Workshop on Peer-to-Peer Systems (IPTPS)*, Berkeley, CA, February, 2003.
88. "Pond: The First OceanStore Prototype," Sean Rhea, Patrick Eaton, Dennis Geels, Hakim Weatherspoon, Ben Zhao and John Kubiawicz. *Proceedings of the 2nd USENIX Conference on File*

- and Storage Technologies*, San Francisco, CA. April 2003. **Best Student Paper Award.**
89. "Distributed Object Location in a Dynamic Network." Kirsten Hildrum, John D. Kubiawicz, Satish Rao and Ben Y. Zhao. *Proceedings of the Fourteenth ACM Symposium on Parallel Algorithms and Architectures (SPAA)*, Winnipeg, Canada. August 2002.
 90. "Locality-aware Mechanisms for Large-scale Networks." Ben Y. Zhao, Anthony Joseph and John Kubiawicz. *Proceedings of the First Workshop on Future Directions in Distributed Computing (FuDiCo)*, Bertinoro, Italy. June 2002.
 91. "Brocade: Landmark Routing on Overlay Networks." Ben Y. Zhao, Yitao Duan, Ling Huang, Anthony D. Joseph, and John D. Kubiawicz. *Proceedings of First International Workshop on Peer-to-Peer Systems (IPTPS)*, Cambridge, MA, March 2002.
 92. "A Markov-based Channel Model Algorithm for Wireless Networks." Almudena Konrad, Ben Y. Zhao, Anthony D. Joseph, Reiner Ludwig. *Proceedings of the Fourth ACM International Workshop on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM)*, July, 2001.
Best Paper Award.
 93. "Bayeux: An Architecture for Scalable and Fault-tolerant Wide-Area Data Dissemination." Shelley Q. Zhuang, Ben Y. Zhao, Anthony D. Joseph, Randy H. Katz and John Kubiawicz. *Proceedings of the Eleventh International Workshop on Network and Operating System Support for Digital Audio and Video (NOSSDAV)*, June, 2001.
 94. "OceanStore: An Architecture for Global-scale Persistent Storage." John Kubiawicz et, al. *Proceedings of the Ninth International Conference on Architecture Support for Programming Languages and Operating Systems (ASPLOS)*, November, 2000.
 95. "Flexible Internetworking of Devices and Controls." Michelle Munson, Todd Hodes, Thomas Fischer, Keung-Hae Lee, Toby Lehman, Ben Zhao. *Proceedings of IECON*, San Jose, CA, December 1999.
 96. "An Architecture for a Secure Service Discovery Service." Steven Czerwinski, Ben Y. Zhao, Todd Hodes, Anthony Joseph, Randy Katz. *Proceedings of the Fifth ACM/IEEE International Conference on Mobile Computing and Networks (MOBICOM)*, Seattle, WA, August 1999.

INDUSTRY

BSocialBSafe, San Francisco, CA

Irell & Manella, Los Angeles, CA

Monitor Group, San Francisco, CA

Replicus Software Inc., Palo Alto, CA

Netlens Inc. (Acquired by NextPage Inc.), Palo Alto, CA