

# Daniel Andresen

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- EDUCATION**
- Ph.D.**, Computer Science, University of California, Santa Barbara, CA. September, 1997  
Thesis Title: "SWEB++: Distributed Scheduling and Software Support for High Performance WWW Applications."  
Advisor: Prof. Tao Yang
- M.S.**, Computer Science, California Polytechnic State University, San Luis Obispo, CA. September, 1992.
- B.S.**, Computer Science and Mathematics, double major, magna cum laude, honors in major, Westmont College, Santa Barbara, CA. May, 1990.
- AWARDS**
- NSF CAREER Award 2001  
KSU Engineering Student Council Outstanding Leadership Award December, 2004, 2005, 2008.  
Residence hall's Professor of the Year nominee 2000, 2002  
Cargill Faculty Fellow 1999, 2000  
College of Engg. James L. Hollis Memorial Award for Excellence in Undergraduate Teaching nominee 1999, 2006
- RESEARCH INTERESTS**
- Parallel and distributed systems, HPC scheduling, digital libraries/WWW applications, Grid/cloud computing, cluster computing, and scientific modeling.
- TEACHING INTERESTS**
- Graduate-level parallel/distributed computing, scientific computing, networking, operating systems, and computer architectures. Courses taught include operating systems (CIS520), Topics in Distributed Systems (CIS825), Introduction to Computer Architecture (CIS450), Software Engineering (CIS642), Web Interface Design (CIS526), and Advanced World Wide Web Technologies (CIS726).

**WORK  
EXPERIENCE**

**Associate Professor** in the Department of Computing and Information Sciences at Kansas State University. 2003-present

**Director**, Institute of Computational Research in Engineering and Science at Kansas State University 2011-present

**Assistant Professor** in the Department of Computing and Information Sciences at Kansas State University. 1997-2003

**Research assistant** at UCSB for Alexandria digital library project. A member of the parallel processing/performance team and the implementation team. Working on performance monitoring, scheduling, resource optimization, and software support for multi-processor WWW servers and adaptive client-server computing. Applications in digitized document/image retrieval and browsing. 1994-1997

**Computer Consultant** at Santa Barbara, CA. Computer consulting for small businesses and sole proprietorships. Specialized in Macintosh systems. 1986-1997

**Research assistant** at UCSB. Working on software tools for ASLAN, a real-time specifications language for formal methods analysis. 1993 spring

**Teaching assistant** at UCSB. Leading discussion sections, giving several lectures, and grading for undergraduate courses (Introduction to Computer Systems and Parallel Scientific Programming). 1994-1995

**Software Engineer** at Hewlett-Packard Corp., Cupertino, CA. Member of HP Distributed Smalltalk (CORBA) development team. Developed automated testing tools and developer utilities. 1993

**Software Engineer** at Summer Institute of Linguistics, Dallas, TX. Member of computing support team. Developed algorithms and GUI for a linguistics database/text processing system. 1990

**Software Engineer** at Summer Institute of Linguistics, Irian Jaya, Indonesia. Implemented employee DBMS and developed several text manipulation programs. Trained linguistics teams on new software tools. 1989

**IT Technician** at Westmont College, CA. Academic Computer Systems support for faculty, staff, and students. General system administration duties, software and hardware configuration, troubleshooting, and personnel training. 1987-1990

## CAREER OVERVIEW

At a high level my research is in distributed systems, ranging from sensor networks monitoring bovine health levels to high performance computing systems. This is frequently entwined with my role as the Director of the Institute for Computational Research in Engineering and Science (ICRES), which oversees the campus research HPC cluster, Beocat, and building the cyberinfrastructure (CI) foundation for K-State to successfully compete at the national level. My regular research partnerships extend beyond CIS to Civil Engineering, Biology, Agriculture, Biochemistry, Physics, Geography, and to beyond KSU to Nebraska, Oklahoma, Missouri, and Arkansas.

I am an NSF CAREER award winner with over \$40M total funding (see Table 1) from NSF, NIH, USDA, and private industry, including 21 grants as PI, and two NSF MRI grants. I have over 85 refereed publications, an h-index of 17, an i10-index of 23, and over 1,100 citations (Google Scholar). My research has been viewed over 6,000 times, downloaded over 1,400 times, and has 16.8 Impact Points (ResearchGate). I have served on numerous program committees and review panels ( including NSF and NIH).

<u>Role</u>	<u>Qty</u>	<u>Total \$</u>	<u>\$ to KSU</u>
PI	21	\$3,616,195	\$3,616,195
co-PI	22	\$20,067,656	\$14,331,656
Senior Personnel	7	\$16,699,070	\$9,324,070
<b>Totals:</b>	<b>50</b>	<b>\$40,382,921</b>	<b>\$27,271,921</b>

Table 1: Funding breakdown.

On a national level, I am active in the HPC and XSEDE communities. My work has been featured in HPCWires podcast, *Soundbites* (The Big Data Challenges of Unmanned Systems Research), and I am a member of the XSEDE Campus Champions National Leadership Team, which consists of six leaders selected from 250+ campus champions across the US. I have led KSU's selection as an XSEDE Level 3 Service Provider (one of less than ten nationwide). I have also spearheaded the adoption of the "KanShare" MOU, which allows any academic in Kansas and their national or international collaborators access to centrally managed HPC resources at the signatory institutions.

As the Director of the ICRES, and XSEDE Campus Champion, I have nurtured research computing at KSU to nationally impact our competitiveness. Our cluster, Beocat, has grown from four machines and 14 cores to its current position as one of the largest academic supercomputers in the state of Kansas (3600+ cores, 150+ machines. Our user base has grown similarly from about ten users initially to approximately 750 today. As Dr. Jesse Poland notes, We have multiple externally funded projects with national and international impact that rely on Beocat as a critical resource. Dr. Eduard Akhunov is leveraging the power of Beocat to develop whole-genome prediction models for wheat to develop heat-tolerant, high-yielding, and farmer-accepted varieties for South Asia, while simultaneously increasing the research for development capacity of the global wheat improvement system. Our YouTube video introducing users to MPI programming has 3,000+ views. I work with our office of sponsored research,

participated in related outreach such as visiting the Army National Simulation Center at Fort Leavenworth, KS to explore potential joint research. I also represent KSU in numerous cyberinfrastructure (CI)-related efforts in the region, ranging from helping the Kansas legislature Vision 2020 subcommittee develop a plan for a statewide HPC center, to my efforts as the Great Plains Network CI Program Committee HPC chair.

My teaching philosophy revolves around the belief that students don't know it until they program it, and the conviction that they need to know *why* they make design decisions, *what* the end product should be, and *how* to accomplish this end. In practice, this means lectures provide an interactive, high-level view of concepts and content, with assignments providing practical experience. I have won the KSU Engineering Student Council Outstanding Leadership Award three times (04, 05, 08), and was nominated twice for the College of Engineering James L. Hollis Memorial Award for Excellence in Undergraduate Teaching (99, 06). I enjoy regularly teaching courses with a practical, performance-oriented flavor like Advanced WWW Technologies, Computer Architecture, and Parallel Software Systems. 24 of my graduate and undergraduate students have had their research results published at international venues. As shown in the Table 2, I have served on 309 graduate student committees, including one active Ph.D. student (defending August, '15), and 19 Ph.D. committees, 146 as MS major professor, and 143 MS committee memberships. I advise our local ACM chapter, oversee our semester local programming contests (with over 100 students typically participating), and coached our entry in the student programming contest at Supercomputing 10, where we placed 3rd in the world.

	<u>Active</u>	<u>Completed</u>
Ph.D. Advisor	1	0
Ph.D. Committee member	7	12
MS Advisor	11	135
MS Committee member	10	133
Total:	29	280

Table 2: Student advising breakdown.

At KSU, my primary service contributions have been through my activities enabling research computing and CI, such as my work writing the campus Research Computing Plan and the draft Data Management Plan document for campus with ORSP and KSU Libraries, participating in multiple seminars on grant writing and data management for junior faculty, and representing KSU to regional and national organizations such as testifying at the KS legislature, and developing regional CI plans with the Kansas City Area Life Sciences Institute.

At the national and international level, I have been on thirteen NSF review panels, 60+ conference program committees in the area of distributed and parallel computing, an External Advisory Committee member for grants in Oklahoma and Arkansas, am regularly a conference panelist and/or session chair, have reviewed papers for fourteen international journals, am consistently quoted in news articles in the Kansas City Star and other outlets (and have had articles about our research appear in outlets like *The Economist* and *ScienceDaily*).

## JOURNAL PUBLICATIONS

1. H. Qian, D. Andresen, Automate Scientific Workflow Execution between Local Cluster and Cloud. to appear in *the International Journal of Networked and Distributed Computing (IJNDC)*, Vol 4, No 1, January, 2016. **Invited paper.**
2. H. Qian, D. Andresen, "Reducing Mobile Device Energy Consumption with Computation Offloading," to appear in Springer's *Studies in Computational Intelligence*, 2015. Impact factor: 1.04. **Invited paper.**
3. H. Qian, D. Andresen, "Jade: an efficient energy-aware distributed computational offloading system with heterogeneous network interface bonding for ad-hoc networked mobile devices," in the *The International Journal of Networked and Distributed Computing*, Vol. 3, Issue 3, July, 2015. **Invited paper.**
4. R. Raghavan, Daniel Neises, Doug A. Goodin, D. Andresen, R. Ganta, "Bayesian Spatio-Temporal Analysis and Geospatial Risk Factors of Human Monocytic Ehrlichiosis. in *PLoS ONE* 01/2014 9(7):e100850, 2014. Impact factor: 3.54.
5. T. Bulatewicz, D. Andresen, S. Auvenshine, J. Peterson, D. R. Steward, "A distributed data component for the Open Modeling Interface," in *Environmental Modelling & Software*, January, 2014. Impact factor: 3.48.
6. T. Bulatewicz, W. Jin, S. Staggenborg, S. Lauwo, M. Miller, S. Das, D. Andresen, J. Peterson, D. R. Steward, and S. M. Welch, "Calibration of a crop model to irrigated water use using a genetic algorithm," in the *Journal of Hydrology and Earth System Sciences (HESS)*, Vol. 13, pp. 1467-1483, 2009. Impact factor: 3.64.
7. A. King, S. Procter, D. Andresen, J. Hatcliff, S. Warren, W. Spees, R. Jetley, P. Jones, and S. Weininger, "A publish-subscribe architecture and component-based programming model for medical device interoperability." *SIGBED Rev.* 6, 2, Article 7 (July 2009), 10 pages. DOI=10.1145/1859823.1859830 <http://doi.acm.org/10.1145/1859823.1859830>
8. B. White, J. Coetzee, D. Renter, A. Babcock, D. Thomson, D. Andresen, "Evaluation of two-dimensional accelerometers to monitor beef cattle behavior post-castration," in *the American Journal of Veterinary Research*, Volume 69, No. 9, pp. 1005-1012, August, 2008. Impact factor: 1.28.
9. J. Mintert, D. Andresen, T. Schroeder, "Improving Efficiency In Business-to-Business Information Transfers: A Web-Based Solution in the Beef Sector," in *the International Journal of Information Management*, August, 2003. Impact factor: 2.04.
10. D. Andresen, M. Neilsen, G. Singh, P. Kalita, Domain-specific Metaware for Hydrologic Applications in the *International Journal of Parallel and Distributed Systems and Networks*, vol. 5, no. 4, pp. 178-184, 2002. Impact factor: 1.01.

11. D. Andresen, T. McCune, H-SWEB: A Hierarchical Scheduling System for Distributed WWW Server Clusters, *Concurrency: Practice and Experience*, Volume 12, pages 1-22, 2000. Impact factor: 0.99.
12. D. Andresen, T. Yang, O. Ibarra, O. Egecioglu, "Adaptive Partitioning and Scheduling for Enhancing WWW Application Performance," *the Journal of Parallel and Distributed Computing (JPDC)*, pp. 57-85, Vol. 49, No. 1, Feb. 25, 1998. Impact factor: 1.21.
13. D. Andresen, T. Yang, O. Ibarra, Towards a Scalable Distributed WWW Server on Workstation Clusters, *the Journal of Parallel and Distributed Computing (JPDC)*, pp. 91-100, vol. 42, September, 1997. Impact factor: 1.21.
14. T.R. Smith, D. Andresen, L. Carver, R. Dolin, C. Fischer, J. Frew, M. Goodchild, O. Ibarra, R. Kemp, R. Kothuri, M. Larsgaard, B. Manjunath, D. Nebert, J. Simpson, A. Wells, T. Yang, Q. Zheng, A Digital Library for Geographically Referenced Materials, *IEEE Computer*, vol. 29, no. 5, pp. 54-60, 1996. (Note erratum on page 14 of IEEE Computer, vol. 29, no. 7.) Impact factor: 1.68.

## REFEREED CONFERENCE PUBLICATIONS

1. H. Qian, D. Andresen, "Emerald: Enhanced Scientific Workflow Performance with Computation Offloading to the Cloud," to appear in the *Proceedings of the 14th IEEE/ACIS International Conference on Computer and Information Science (ICIS'15)*, Las Vegas, Nevada, USA, June 28-July 1, 2015.
2. H. Qian, D. Andresen, "An Energy-saving Task Scheduler for Mobile Devices," to appear in the *Proceedings of the 14th IEEE/ACIS International Conference on Computer and Information Science (ICIS'15)*, Las Vegas, Nevada, USA, June 28-July 1, 2015.
3. H. Qian, D. Andresen, "Reducing Mobile Device Energy Consumption with Computation Offloading," selected as one of top 15 submissions, and invited to publish extended version in SCI journal, to appear in the *Proceedings of 16th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2015)*, Takamatsu, Japan, June 1-3, 2015.
4. H. Qian, D. Andresen, "Extending Mobile Device's Battery Life by Offloading Computation to Cloud," short paper, to appear in *the electronic proceedings of the 2nd International Conference on Mobile Software Engineering and Systems (MOBILESoft 2015)*, co-located with the 37th International Conference on Software Engineering (ICSE 2015), Florence, Italy, May 16 - 24, 2015.

5. H. Wu, X. Li, C. Scoglio, D. Gruenbacher, D. Andresen, "Size-based Flow management Prototype for Dynamic DMZ," in the *Proceedings of the 11th International Conference on Design of Reliable Communication Networks (DRCN 2015)*, Kansas City, MO, March 25-27, 2015.
6. H. Qian, D. Andresen, "Jade: an efficient energy-aware computational offloading system with heterogeneous network interface bonding for ad-hoc networked mobile devices," in the *Proceedings of the 15th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2014)*, Las Vegas, NV, June 30 - July 2, 2014.
7. R. Feldhausen, S. Bell, and D. Andresen, "Minimum Time, Maximum Effect: Introducing Parallel Computing in CS0 and STEM Outreach Activities Using Scratch," in the *Proceedings of the Extreme Science and Engineering Discovery Environment 2014 (XSEDE14)*, in cooperation with ACM SIGAPP, Atlanta, GA, July 13-18, 2014. Acceptance rate: 67%.
8. T. Bulatewicz, D. Andresen, "Accessible Parallelization for the Open Modeling Interface," in the *Proceedings of the Extreme Science and Engineering Discovery Environment 2014 (XSEDE14)*, in cooperation with ACM SIGAPP, Atlanta, GA, July 13-18, 2014. Acceptance rate: 67%.
9. S. Bell, E. Vasserman, D. Andresen, "Developing and Assessing a Multi-Factor Authentication Protocol for Revocable Distributed Storage in a Mobile Wireless Network," in the *Proceedings of the 2014 International Conference on Security and Management (SAM'14)*, Las Vegas, NV, July 21-24, 2014. Acceptance rate: 23%.
10. Steward, D. R., Aistrup, J., Kulcsar, L., Peterson, J. M., Welch, S. M., Andresen, D., Bernard, E. A., Staggenborg, S. A., and T. Bulatewicz, "Integrated, interdisciplinary water resources studies using the Simple Script Wrapper," Governor's Conference on Future of Water in Kansas, Manhattan, KS, October 30-31, 2012.
11. Bulatewicz, T. and Andresen, D., "Efficient data collection from Open Modeling Interface (OpenMI) components", in the *Proceedings of the 2012 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'12)*, Las Vegas, NV, July 16-19, 2012.
12. J. Sharp, E. Y. Vasserman, D. Andresen, and J. Hatcliff. "Towards an ICE-compliant logger within MDCF." In *Proceedings of the Workshop on Infrastructure, Tools, and Technologies for Systems of Systems of Medical Devices (SoSMD)*, Lawrence, KS, November 12, 2011.
13. Bulatewicz, T. and Andresen, D., "Efficient data access for Open Modeling Interface (OpenMI) components", in the *Proceedings of the 2011 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'11)*, Las Vegas, NV, July 18-21, 2011. Acceptance rate: 23%. (Winner of one of three "Outstanding Contribution to OpenMI Award for 2011".)

14. T. Mehlinger, D. Andresen, and A. Tygart, "Towards Simplifying Workflow Execution on the Grid", in the *Proceedings of the 7th Int'l Conference on Grid Computing and Applications (GCA'11)*, Las Vegas, NV, July 18-21, 2011. Acceptance rate: 23%.
15. Staggenborg, S. A., Waite, J., Aistrup, J., Andresen, D., Bernard, E. A., Bulatewicz, T., Kulcsar, L. J., Peterson, J. M., Schlegel, A., Steward, D. R. and Welch, S. M. "Simulating deficit irrigation for use in coupled model scenarios", in *Welch, S. M. ed. Proceedings of the 41st Biological Systems Simulation Conference*. pp. 37-38, Austin, TX, April 19-21, 2011.
16. Steward, D. R., Aistrup, J., Andresen, D., Bernard, E. A., Bulatewicz, T., Kulcsar, L. J., Peterson, J. M., Staggenborg, S. A. and Welch, S. M. "A comprehensive crop modeling geohydrolic framework to study the consequences of management practices," in *Welch, S. M. ed. Proceedings of the 41st Biological Systems Simulation Conference*, pp. 20-21, Austin, TX, April 19-21, 2011.
17. Bulatewicz, T. and Andresen, D. "Efficient data access for Open Modeling Interface (OpenMI) components", in *Welch, S. M. ed. Proceedings of the 41st Biological Systems Simulation Conference*, pp. 18-19, Austin, TX, April 19-21, 2011.
18. L. Carranco, D. Andresen, "SOAP Optimization over WCF via Client-Side Caching," in the *Proceedings of the 2010 International Conference on Semantic Web and Web Services (SWWS'10)*, pp. 11 – 17, Las Vegas, NV, July 12–15, 2010. Acceptance rate: 27%.
19. C. Kirkconnell, D. Andresen, "A REST-Base Messaging Server for Ruby on Rails," in the *Proceedings of the 2010 International Conference on Internet Computing (ICOMP'10)*, pp. 165 – 171, Las Vegas, NV, July 12–15, 2010. Acceptance rate: 27%.
20. S. Hoskins, D. Andresen, S. Warren, T. Sobering, "Near-Field Wireless Magnetic Link for an Ingestible Cattle Health Monitoring Pill," in the *the Proceedings of the 31th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC'09)*, Minneapolis, Minnesota, USA, 2nd - 6th September, 2009.
21. K. Smith, D. Andresen, S. Warren, "Motion-Based Behavior Assessment for a Wearable Cattle Health Monitoring System" in *the Proceedings of the 2009 International Conference on Bioinformatics and Computational Biology (BIOCOMP'09)*, pp. 676–682, Las Vegas, NV, July 13-16, 2009. Acceptance rate: 27%.
22. A. King, S. Proctor, D. Andresen, J. Hatcliff, S. Warren, W. Spees, R. Jeyley, S. Weininger, "An Open Test Bed for Medical Device Integration and Coordination," to appear in the *Proceedings of the 31st International Conference on Software Engineering (ICSE 2009)*, Vancouver, Canada, May 16-24, 2009. Acceptance rate: 16%.
23. S. Warren, A. Martinez, T. Sobering, D. Andresen, "Electrocardiographic Pill for Cattle Heart Rate Determination," in the *the Proceedings of the 30th Annual International Conference of the*



*IEEE Engineering in Medicine and Biology Society (EMBC'08)*, Vancouver, British Columbia, Canada, August 20th - 24, 2008.

24. S. Warren, D. Andresen, D. Wilson and S. Hoskins, "Embedded Design Considerations for a Wearable Cattle Health Monitoring System," in *the Proceedings of the 2008 International Conference on Embedded Systems and Applications (ESA '08)*, pp. 55-62, Las Vegas, NV, July 14-17, 2008. Acceptance rate: 28%.
25. D. Andresen, J. Hatcliff, G. Singh, S. Warren, "Observations and directions for high-confidence sensor networks," *Proceedings of the Composable and Systems Technology for High Confidence Cyber-Physical Systems Workshop*, Alexandria, Virginia, July 9-10, 2007.
26. T. Bulatewicz, D. Andresen, S. Welch, W. Jin, S. Das, M. Miller, "A Framework for Scalable Parameter Estimation on Clusters," in *the Proceedings of the 8th LCI International Conference on High-Performance Clustered Computing (LCI-HPCC'07)*, Tahoe, CA, May 15-17, 2007.
27. A. Martinez, S. Schoenig, D. Andresen, S. Warren, "Ingestible Pill for Heart Rate and Core Temperature Measurement in Cattle," in *the Proceedings of the 28th IEEE EMBS Annual International Conference*, New York, NY, August 30-September 3, 2006.
28. K. Smith, A. Martinez, R. Craddolph, D. Andresen, S. Warren, "An Integrated Cattle Health Monitoring System," in *the Proceedings of the 28th IEEE EMBS Annual International Conference*, New York, NY, August 30-September 3, 2006.
29. E. Bernard, D. Andresen, J. Hutchinson, "Linking Chemical Information with GeoDatabase Features via Web Services," in *the Proceedings of the Twenty-sixth ESRI International User Conference*, San Diego, CA, August 7-11, 2006.
30. W. Jin, S. Staggenborg, S. Lauwo, M. Miller, S. Das, D. Andresen, J. Peterson, D. Steward, S.M. Welch, "Coupling Crop and Hydrologic Models for Decision Support in the High Plains Aquifer: Preliminary Steps," in *the Proceedings of the 5th International Conference on the Analytic Element Method (ICAEM)*, pp. 32-43, Manhattan, Kansas, May 14-17, 2006.
31. V. Ranganath, A. King, D. Andresen, "Automatic code generation for LYE, a high-performance caching SOAP implementation," in *the Proceedings of the 2006 International Conference on Semantic Web and Web Services (SWWS'06)*, pp. 73-79, Las Vegas, NV, June 26-29, 2006. Acceptance rate: 32%.
32. A. Gud, M. Mizuno, D. Andresen, "A Scalable Search Algorithm for Unstructured Peer-to-Peer Networks," in *the Proceedings of the 2006 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'06)*, pp. 120-126, Las Vegas, NV, June 26-29, 2006. Acceptance rate: 32%.

33. Jan Miksatko, D. Andresen, "A parameter-based dynamic scheduling system for J2EE server clusters," in the *Proceedings of the The IASTED International Conference on WEB TECHNOLOGIES, APPLICATIONS, AND SERVICES (WTAS 2005)*, Calgary, Alberta, Canada, July 4-6, 2005.
34. D. Andresen, "Enhancing cluster application performance via smarter scheduling and stronger SOAP," in *Proceedings of the NSF Next Generation Software (NGS) Workshop*, held in conjunction with the 19th International Parallel & Distributed Processing Symposium (IPDPS'05), pp. 218B, Denver, Colorado, USA, April 4 2005.
35. Barrett Langton, Daniel Andresen, Ethan Bowker, "An evaluation of the DESPOT scheduling algorithm on small Beowulf clusters," in the *Proceedings of the IASTED International Conference on Parallel and Distributed Computing and Systems (PDCS 2004)*, pp. 310-315, Boston, MA, November 3-5, 2004.
36. Venkatesh Ranganath, David Sexton, Daniel Andresen, "LYE: high-performance SOAP with multi-level caching," in the *Proceedings of the IASTED International Conference on Parallel and Distributed Computing and Systems (PDCS 2004)*, pp. 743-748, Boston, MA, November 3-5, 2004.(nominated for the PDCS Best Paper Award)
37. Warren, Steve, Luke Nagl, Tammi Hildreth, Howard Erickson, David Poole, Mark Spire, and Daniel Andresen. "Wearable and Wireless: Distributed, Sensor-Based Telemonitoring Systems for State of Health Determination in Cattle," *2004 Talbot Symposium on Computers and Veterinary Informatics*, AVMA Annual Convention, Pennsylvania Convention Center, Philadelphia, PA, July 24-28, 2004.
38. Schoenig, S. A., T. S. Hildreth, L. Nagl, H. Erickson, M. Spire, D. Andresen, and S. Warren. "Ambulatory Instrumentation Suitable for Long-Term Monitoring of Cattle Health," *26th Annual Conference of the IEEE EMBS*, St. Francis Hotel on Union Square, San Francisco, CA, September 1-5, 2004.
39. Nagl, L., B. Krishnamurthi, S. Schoenig, S. Warren, and D. Andresen. "Experiences Using WinCE PocketPCs as Computation and Data Acquisition Platforms for Ambulatory Telemonitoring," *26th Annual Conference of the IEEE EMBS*, St. Francis Hotel on Union Square, San Francisco, CA, September 1-5, 2004.
40. D. Andresen, D. Sexton, K. Devaram, V. Prasad Ranganath, "LYE: a high-performance caching SOAP implementation," *the Proceedings of the 2004 International Conference on Parallel Processing (ICPP-2004)*, pp. 143-150, Montreal, Quebec, Canada, August 15-18, 2004. Acceptance rate: 34%.
41. D. Andresen, J. Lebak, E. Bowker, "An Evaluation of Distributed Scheduling Algorithms Within The DESPOT Architecture," in the *Proceedings of the 2004 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'04)*, pp. 186-192, Las Vegas, NV, June 21-24, 2004.

42. K. Devaram, D. Andresen, "SOAP Optimization via Parameterized Client-Side Caching," in *the Proceedings of the IASTED International Conference on Parallel and Distributed Computing and Systems (PDCS 2003)*, pp. 785–790, Marina Del Rey, CA, November 3-5, 2003.
43. D. Andresen, M. Neilsen, and G. Singh, P. Kalita "Dharma: a Grid-enabled Domain-specific Metaware for Hydrology," in *the Proceedings of the IASTED International Conference on Parallel and Distributed Computing and Systems (PDCS 2003)*, pp. 791–796. Winner of IASTED Best Paper Award in the area of Distributed Computing Applications. Marina Del Rey, CA, November 3-5, 2003.
44. A. Hanenkamp, D. Andresen, "Heterogeneous Channel Bonding Revisited," to appear in *the Proceedings of the IASTED International Conference on Parallel and Distributed Computing and Systems (PDCS 2003)*, pp. 387–392. Nominated for IASTED Best Paper Award in the area of Communication Issues. Marina Del Rey, CA, November 3-5, 2003.
45. V. Ranganath, D. Andresen, "A Set-based Approach to Packet Classification," in *the Proceedings of the IASTED International Conference on Parallel and Distributed Computing and Systems (PDCS 2003)*, pp. 889-894. Nominated for IASTED Best Paper Award in the area of Networking. Marina Del Rey, CA, November 3-5, 2003.
46. Warren, Steve, Luke Nagl, Ryan Schmitz, Jianchu Yao, Tammi Hildreth, Howard Erickson, David Poole, and Daniel Andresen. "A Distributed Infrastructure for Veterinary Telemedicine," *3rd Joint EMBS-BMES Conference*, Cancun, Mexico, Sept.2003.
47. K. Devaram and D. Andresen, SOAP Optimization via Client-Side Caching, in *the Proceedings of the First International Conference on Web Services (ICWS'03)*, pp. 520–524, Las Vegas, NV, June 24-27, 2003.
48. D. Andresen, N. Schopf, E. Bowker and T. Bower, Distop: A Low-overhead Cluster Monitoring System, in *the Proceedings of the 2003 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'03)*, pp. 1832–1836, Las Vegas, NV, June 24-27, 2003.
49. K. Kim, P. Kalita, D. Andresen, M. Neilsen, and G. Singh, Using a domain-specific middleware system (DHARMA) to extend WEPP applicability to large watersheds, to appear in *Proceedings of the 2003 Annual International ASAE Meeting*, Las Vegas, NV, July 27-30, 2003
50. S. Varghese, D. Andresen, "Distributed Logging in Java with Constrained Resource Usage," in *the Proceedings of the 2003 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'03)*, pp. 1526-1531, Las Vegas, NV, June 24-27, 2003.
51. D. Andresen, M. Neilsen, G. Singh, P. Kalita, Domain-specific Metaware for Hydrologic Applications in *the Proceedings of the IASTED International Conference on Parallel and Distributed Computing and Systems (PDCS 2002)*, pp. 416–421, Cambridge, MA, November 4-6, 2002.

52. D. Andresen, S. Kota, M. Tera, and T. Bower, "An IP-Level Network Monitor and Scheduling System for Clusters," in the *Proceedings of the 2002 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'02)*, Vol. II, pp. 789–795, Las Vegas, NV, June 24–27, 2002. Acceptance rate: 30%.
53. D. Andresen, M. Neilsen, G. Singh, M. Hirschi, P. Kalita, "ITR: DHARMA: Domain-specific Metaware for Hydrologic Applications," in the *Proceedings of the IDM 2002 PI Workshop on Information and Data Management*, Washington, DC, May 1–3, 2002.
54. S. Robledo, D. Andresen, "Internet Document Matching (IDM)," in the *Proceedings of the 2002 International Conference on Internet Computing (IC'02)*, Vol. II, pp. 513–518, Las Vegas, NV, June 24–27, 2002. Acceptance rate: 30%.
55. D. Andresen, M. Neilsen, G. Singh, P. Kalita, M. Hirschi "The DHARMA Software Architecture," in the online *Proceedings of WWW2002*, Practice and Experience track, Honolulu, Hawaii, May 7–11, 2002.
56. D. Andresen, M. Neilsen, G. Singh, P. Kalita, M. Hirschi "DHARMA: Domain-specific Metaware for Hydrologic Applications," in the *Poster Proceedings of Supercomputing '01*, Denver, CO, November 10–16, 2001. Acceptance rate: 30%.
57. D. Andresen, M. Neilsen, G. Singh, M. Hirschi, P. Kalita, "ITR: DHARMA: Domain-specific Metaware for Hydrologic Applications," in the *Proceedings of the IDM 2001 PI Workshop on Information and Data Management*, Fort Worth, TX, April 29–May 1, 2001.
58. G. Clark, D. Rogers, D. Andresen, D. Kapadia, "Real Time Crop Water Management and Irrigation Scheduling Web Site," in *Proc. of the Water and the Future of Kansas Conference*, Manhattan, KS, March 13, 2001.
59. T. Bower, D. Andresen, D. Bacon, Analysis of the effects of removing redundant header information in persistent HTTP connections, in the *Proceedings of the 2001 International Conference on Internet Computing (IC'01)*, pp. 696–701, Las Vegas, June 26–29, 2001. Acceptance rate: 26%.
60. S. Prashanth, D. Andresen, Using implicit fitness functions for genetic algorithm-based agent scheduling, in the *Proceedings of the 2001 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'2001)*, pp. 445–450, Las Vegas, June 26–29, 2001. Acceptance rate: 26%.
61. J. Greenwald, D. Andresen, "Integrating Software Agents into the HTTP Caching Infrastructure," in the *Poster Proceedings of the Tenth International World Wide Web Conference (WWW10)*, pp. 150–151, Hong Kong, PRC, May, 2001.
62. D. Andresen, R. Novotny, The Modeler's Workbench: A system for dynamically distributed simulation and data collection, in *Proceedings of the Ninth IEEE International Symposium on High Performance Distributed Computing (HPDC9)*, pp. 300–301, Pittsburgh, PA, August, 2000.

63. D. Andresen, D. Bacon, B. Leung, Datamining Support for Householding on Beowulf Clusters, *Proceedings of the 2000 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'2000)*, pp. 1749–1753, Las Vegas, June 26-29, 2000. Acceptance rate: 24%.
64. B. Zhao, D. Andresen, Heterogeneous Channel Bonding on a Beowulf Cluster, *Proceedings of the 2000 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'2000)*, pp. 2479–2484, Las Vegas, June 26-29, 2000. Acceptance rate: 24%.
65. R. Busby, M. Neilsen, D. Andresen, Enhancing NWS for use in an SNMP Managed Internetwork, in the *Proceedings of the 2000 International Parallel and Distributed Processing Symposium (IPDPS'00)*, pp. 506-513, Cancun, Mexico, May, 2000. Acceptance rate: 35%.
66. A. Gopalan, S. Saleem, M. Martin, D. Andresen, “Baglets: Adding Hierarchical Scheduling to Aglets,” *Proc. of the Eighth IEEE International Symposium on High Performance Distributed Computing(HPDC8)*, Los Angeles, CA, pp. 229-235, August, 1999.
67. Y. Pu, D. Andresen “Distributed Processing for Cinematic Holographic Particle Image Velocimetry,” *Proc. of the Eighth IEEE International Symposium on High Performance Distributed Computing(HPDC8)*, Los Angeles, CA, pp. 343–344, August, 1999.
68. D. Andresen, T. Yang, “SWEB++: Algorithms and Techniques for Distributed Scheduling on WWW Servers,” *Proceedings of the Intl. Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA99)*, Las Vegas, NV, pp. 923–929, June, 1999. Acceptance rate: 28%.
69. D. Andresen, T. McCune, Towards a Hierarchical Scheduling System for Distributed WWW Server Clusters, in the *Proc. of the Seventh IEEE International Symposium on High Performance Distributed Computing(HPDC7)*, Chicago, Illinois, pp. 301–309, July, 1998. Acceptance rate: 31%.
70. D. Andresen, T. Yang, “SWEB++: Partitioning and Scheduling for Adaptive Client-Server Computing on the WWW,” *Proceedings of the SIGMETRICS'98/PERFORMANCE '98 Joint International Conference on Measurement and Modeling of Computer Systems Workshop on Internet Server Performance (WISP98)*, pp. 33-44, Madison, Wisconsin, June 24-26, 1998.
71. D. Andresen, T. Yang, “Multiprocessor Scheduling with Client Resources to Improve the Response Time of WWW Applications,” *Proceedings of the 11th ACM International Conference on Supercomputing (ICS97)*, Vienna, July 7-11, 1997.
72. D. Andresen, T. Yang, D. Watson, A. Poulakidas, Dynamic Processor Scheduling with Client Resources for Fast Multi-resolution WWW Image Browsing, *Proceedings of the 11th International Parallel Processing Symposium (IPPS'97)*, pp. 167-173, Geneva, April, 1997. Accept. rate: ~33%.

73. D. Andresen, T. Yang, O. Egecioglu, O. Ibarra, and T. Smith, "Scalability Issues for High Performance Digital Libraries on the World Wide Web," *Proceedings of ADL '96, Forum on Research and Technology Advances in Digital Libraries*, IEEE, Washington D.C., May 1996. Accept. rate: ~20%.
74. D. Andresen, T. Yang, V. Holmedahl and O. Ibarra, "SWEB: Towards a Scalable WWW Server on MultiComputers," *Proceedings of the 10th International Parallel Processing Symposium (IPPS'96)*, Hawaii, April, 1996. Accept. rate: ~35%.
75. D. Andresen, L. Carver, R. Dolin, C. Fischer, J. Frew, M. Goodchild, O. Ibarra, R. Kothuri, M. Larsgaard, B. Manjunath, D. Nebert, J. Simpson, T. Smith, T. Yang, Q. Zheng, "The WWW Prototype of the Alexandria Digital Library," *Proceedings of ISDL'95: International Symposium on Digital Libraries*, Japan. August 22 - 25, 1995.

#### *Technical Reports*

1. V. Ranganath, H. Jin, D. Andresen, "Localized Disaster Networks Platform," tech report, September 11, 2017.
2. Scott Bell, Eugene Vasserman, Daniel Andresen, "Multi-Factor Authentication for More Resilient Distributed Storage in Wireless Networks," Tech Report: mobile\_techreport\_2013, March, 2013.
3. Andrew King, Sam Proctor, Dan Andresen, John Hatcliff, Steve Warren, William Spees, Raoul Jetley, Paul Jones, Sandy Weininger, "An Open Test Bed for Medical Device Integration and Coordination," Tech Report: SAnToS-TR-2008-02, October, 2008.
4. D. Duffey, D. Andresen, DUMP: Dump User Memory, Please, KSU CIS Tech Report 2002-2, 2002.
5. D. Andresen, R. Novotny, The Modeler's Workbench: A system for Dynamically distributed simulation and data collection, KSU CIS Tech Report99-13, 1999.
6. D. Andresen, T. Yang, Adaptive Scheduling with Client Resources to Improve WWW Server Scalability, UCSB Tech Report TRCS96-27, 1996.
7. D. Andresen, T. Yang, O. Egecioglu, O. Ibarra, T. Smith, Scalability Issues for High Performance Digital Libraries on the World Wide Web, UCSB Tech Report TRCS96-03, 1996.
8. D. Andresen, T. Yang, V. Holmedahl, O. Ibarra., SWEB: Towards a Scalable World Wide Web Server on Multicomputers, UCSB Tech Report TRCS95-17, 1995.

#### *Other*

1. A. Pahwa, S. Das, S. DeLoach, B. Natarajan, P. Gayle, D. Andresen, K. Jhala, H. Kanakri, A. K. Zarabie, "Architecture for Future Distribution Systems Including Active Consumers with

- Rooftop Solar Generation,” *2017 NSF Cyber-Physical Principal Investigator’s Meeting*, Arlington, VA, November 13-14, 2017.
2. J. Donnoe, D. Haeflinger, D. Andresen, “GPU Accelerated Kruskals Algorithm on Randomly Generated Geometric Graphs,” poster session, in *Practice & Experience in Advanced Research Computing (PEARC17)*, New Orleans, LA, July 9–13, 2017.
  3. R. Habeeb, E. Koch, Z. Throneburg, H. Wu, C. Scoglio, D. Andresen, “Effect of Intermittent Interval Sampling on Software-Defined DMZs,” KSU Undergraduate Research Presentation, Manhattan, KS, April 14, 2016.
  4. ECAR-CCI Working Group. “Research Computing in the Cloud: Functional Considerations for Research.” Research bulletin. Louisville, CO: ECAR, July 15, 2015.
  5. H. Qian, D. Andresen, “Extending Mobile Device’s Battery Life by Offloading Computation to Cloud,” poster session, in *the2nd International Conference on Mobile Software Engineering and Systems ( MOBILESoft 2015)*, co-located with the 37th International Conference on Software Engineering (ICSE 2015), Florence, Italy, May 16 - 24, 2015.
  6. H. Wu, X. Li, C. Scoglio, D. Gruenbacher, D. Andresen, “Size-based Flow Management Enabling Dynamic DMZ,” Poster presentation and demo, GENI Engineering Conference 21 (GEC21), Bloomington, IN, October 20-23, 2014.
  7. H. Qian, D. Andresen, “Jade: an efficient energy-aware computational offloading system with heterogeneous network interface bonding for ad-hoc networked mobile devices,” poster session, Great Plains Network (GPN) Annual Meeting, Kansas City, MO, May 30-June 1, 2014.
  8. Z. Throneburg, D. Andresen, “Analyzing the Impacts of Resource Request Accuracy on Overall System Utilization in Supercomputing Cluster Environments”, poster session, Great Plains Network (GPN) Annual Meeting, Kansas City, MO, May 30-June 1, 2014.
  9. A. Pahwa, S. DeLoach, S. Das, B. Natarajan, X. Ou, D. Andresen, N. Schulz, G. Singh, M. S. Alam, D. Case, A. Malekpour, “Large Scale Integration of Rooftop Solar Power in Distribution Systems,” *IEEE PES T&D Conf & Expo*, Chicago, IL, April 2014.
  10. A. Pahwa, S. DeLoach, S. Das, B. Natarajan, X. Ou, D. Andresen, N. Schulz, G. Singh, M. S. Alam, D. Case, A. Malekpour, Daniel Wang, T. Ehlmann, G. Martin, “Holonc Multi-Agent Control of Intelligent Power Distribution Systems,” *Joint JST-NSF- DFG workshop on Distributed Energy Management Systems*, Honolulu, HI, January 2014.
  11. D. Steward, J. Aistrup, L. Kulcsar, J. Peterson, S. Welch, D. Andresen, E. Bernard, S. Staggenborg, and T. Bulatewicz; “An OpenMI Implementation of a Water Resources System using Simple Script Wrappers,” in the poster proceedings of *American Geophysical Unions 46th annual Fall Meeting*, San Francisco, CA, December 9-13, 2013.

12. R. Feldhausen, R.S. Bell, D. Andresen, "Introducing HPC & Multithreaded Computing to Middle School Girls Using Scratch," in the poster session and online archives, *The International Conference for High Performance Computing, Networking, Storage, and Analysis (SC13)*, Denver, CO, Nov. 17-22, 2013. Accept. rate: ~40%.
13. R. Feldhausen, R.S. Bell, D. Andresen, "Engaging Students in STEM Fields through High Performance Computing," poster session, OSCER Supercomputing Symposium, Norman, OK, October 1-2, 2013.
14. R. Feldhausen, R.S. Bell, D. Andresen, "Engaging Students in STEM Fields through High Performance Computing," student poster session, 3<sup>rd</sup> Place Winner in the Student Poster Competition, *ASEE Midwest Section Annual Conference*, Salina, Kansas, September 18-20, 2013.
15. T. Bulatewicz, D. Andresen, S. Auvenshine, J. Peterson, D. Steward, "A Distributed Data Component for the Open Modeling Interface," poster session and talk, The International ACM Symposium on High-Performance Parallel and Distributed Computing (HPDC'13), New York City, June 17-21, 2013.
16. A. Pahwa, S. A. DeLoach, S. Das, B. Natarajan, X. Ou, D. Andresen, N. Schulz, G. Singh, "Holonc Multi-Agent Control of Power Distribution Systems of the Future," *CIGRE Grid of the Future Symposium*, Kansas City, MO, Oct. 28-30, 2012.
17. D. Andresen, "Beocat: Providing Computational Support for the K-State Research Community," poster session, Oklahoma Supercomputing Symposium, Norman, OK, October 1-2, 2012.
18. D. Andresen, W. Dodds, L. Krishtalka, Y. Luo, D. McMullen, M. Palmer, X. Xiao, M. Yuan, "The CyberCommons: Cyberinfrastructure for Understanding and Forecasting Ecological Change in the Central Plains Grasslands," poster session, Oklahoma Supercomputing Symposium, Norman, OK, October 1-2, 2012.
19. D. Andresen, W. Dodds, L. Krishtalka, Y. Luo, D. McMullen, M. Palmer, X. Xiao, M. Yuan, "The CyberCommons: Cyberinfrastructure for Understanding and Forecasting Ecological Change in the Central Plains Grasslands," poster session, Great Plains Network (GPN) Annual Meeting, Kansas City, MO, May 30-June 1, 2012.
20. D. Andresen, "Beocat: Providing Computational Support for the K-State Research Community," poster session, Oklahoma Supercomputing Symposium, Norman, OK, October 11-12, 2011.
21. D. Andresen, W. Dodds, L. Krishtalka, Y. Luo, D. McMullen, M. Palmer, X. Xiao, M. Yuan, "The CyberCommons: Cyberinfrastructure for Understanding and Forecasting Ecological Change in the Central Plains Grasslands," poster session, Oklahoma Supercomputing Symposium, Norman, OK, October 11-12, 2011.
22. D. Andresen, "Beocat: Providing Computational Support for the K-State Research Community," poster session, Cybercommons Annual Symposium, Norman, OK, September 30, 2011.



23. D. Andresen, W. Dodds, L. Krishtalka, Y. Luo, D. McMullen, M. Palmer, X. Xiao, M. Yuan, "The CyberCommons: Cyberinfrastructure for Understanding and Forecasting Ecological Change in the Central Plains Grasslands," poster session, Cyberinfrastructure in the EPSCoR's Workshop, Arlington, Virginia, October 7-8, 2010.
24. D. Andresen, W. Dodds, L. Krishtalka, Y. Luo, D. McMullen, M. Palmer, X. Xiao, M. Yuan, "The CyberCommons: Cyberinfrastructure for Understanding and Forecasting Ecological Change in the Central Plains Grasslands," poster session, Great Plains Network (GPN) Annual Meeting, Kansas City, MO, June 2-4, 2010.
25. D. Andresen, W. Dodds, L. Krishtalka, Y. Luo, D. McMullen, M. Palmer, X. Xiao, M. Yuan, "The CyberCommons: Cyberinfrastructure for Understanding and Forecasting Ecological Change in the Central Plains Grasslands," poster session, "Improving Observing Network Coordination: A Cyberinformatics Forum," Boulder, CO, May 17-19, 2010.
26. D. Andresen, "Beocat: Providing Computational Support for the K-State Research Community," poster session, OU Supercomputing Symposium, Norman, OK, October 6-7, 2009.
27. A. King, S. Proctor, D. Andresen, J. Hatcliff, S. Warren, W. Spees, R. Jeyley, S. Weininger, "Demonstration of a Medical Device Integration and Coordination Framework," to appear in the Research Demonstration Track of the *Proceedings of the 31st International Conference on Software Engineering (ICSE 2009)*, (Poster + 2-page paper), Vancouver, Canada, May 16-24, 2009. Acceptance rate: 58%.
28. B.J. White, , S. Dissanayake, D. Andresen, D.R. Steward, L. Vogel "Utilization of wireless accelerometers and temperature sensors to evaluate internal truck environment during cattle transport," International Symposium on Beef Cattle Welfare, Manhattan, KS, May 28-30, 2008.
29. Steve Warren, Seth Hoskins, Dan Wilson, Tammi Hildreth, Howard Erickson, David Poole, Brad White, Daniel Andresen, "Veterinary Telemedicine: Wearable and Wireless Systems for Cattle Health Assessment," International Symposium on Beef Cattle Welfare, Manhattan, KS, May 28-30, 2008.
30. T. Bulatewicz, J. Peterson, D. Steward, E. Bernard, D. Andresen, and S. Welch, "Exploring ecological change in a virtual landscape," First Annual Kansas EPSCoR Ecoforecasting Meeting, Manhattan, KS, April 21, 2007.
31. Steve Warren, Luke Nagl, Scott Schoenig, Balakumar Krishnamurthi, Tammi Hildreth, Howard Erickson, David Poole, Mark Spire, Daniel Andresen, "Veterinary Telemedicine: Wearable and Wireless Systems for Cattle Health Assessment," Tenth Annual Meeting & Exposition of the American Telemedicine Association, Denver, Colorado, April 17-20, 2005. Abstract published in *Telemedicine and e-Health*, Vol. 11, No. 2, April 2005, pp. 264-265.

32. TS Hildreth, L Nagl, S Warren, HH Erickson, R Schmitz, J Yao, L Nagl, R Kollarapu, and D Andresen, Integration of Biomedical Sensors with via Telemetry and Computer Technology for Cattle Health Monitoring, Conference of Research Workers in Animal Diseases (CRWAD), Chicago, IL, Nov. 9-11, 2003. (Winner: 2003 CRWAD Graduate Student Abstract Presentation Awards, Biosafety and Biosecurity division)
33. D. Andresen, M. Neilsen, G. Singh, P. Kalita, M. Hirschi, "DHARMA: Domain-specific Metaware for Hydrologic Applications," to appear in the *Poster Proceedings of the Twelfth IEEE International Symposium on High-Performance Distributed Computing (HPDC '03)*, Seattle, WA, June 22-24, 2003.
34. Hildreth, Tammi, Steve Warren, Howard Erickson, David Poole, Ryan Schmitz, Jianchu Yao, Luke Nagl, Ravi Kollarapu, and Daniel Andresen. "Veterinary Telemonitoring for Disease Prevention in Cattle Herds," Cattlemen's Day, Kansas State University, Manhattan, KS, March 7, 2003. (conference poster presentation)
35. D. Andresen, Graduate Student's Survival Guide, Dept. of Computer Science, UCSB, 1994.

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\* The acceptance rate is shown if it has been provided by the editors.

## PROFESSIONAL ACTIVITIES

### *Editorial Boards*

- Guest Editor, Intl. Journal of Foundations of Computer Science, special issue on irregular computation, 2000.
- Review Board, Intl. Journal of Next-Generation Computing, 2009 - present
- Guest Editor, Journal of Parallel and Cloud Computing, special issue on supercomputing, September, 2015.

### *Paper Refereeing*

- *Journals:* IEEE Transactions on Mobile Computing, ACM Crossroads(2), IEEE Internet Computing, IEEE Transactions on Parallel and Distributed Systems, Concurrency: Practice and Experience, Intl. Journal of Foundations of Computer Science, Parallel Processing Letters, Journal of Parallel and Distributed Computing, IEEE Transactions on Computers, IEEE Transactions on Multimedia, International Journal of Computers and Applications, Computer Methods and Programs in Biomedicine, Computers in Agriculture, Environmental Modeling and Software, IEEE Transactions on Services Computing, Journal of Supercomputing.
- *Conferences:* EMBS BHI'18(3), ISPA'17(4), ADVCOMP'17, ICSEA'17(2), FCST-17(2), INFOCOMP'17, IMCIC 2017(2), ICA3PP'16(2), ADVCOMP'16, XSEDE'16(11), BMIC'16(2), EMBC'16(3), InfoComp'16, BHI-2016(2), IMCIC 2016(2), ICA3PP 2015(6), EMBC'15(3), BMIC'15, XSEDE'15 (11), ADVCOMP'15, InfoComp'15, IMCIC(2), BMIC'14, INFOCOMP'14, XSEDE'14 (19), IMCIC'14, CIT'13(6), HPCC'13(7), EMBC'13(3), EMBC'12(2), EMBC'11(3), CIT'11(2), BMIC'11(2), BMIC'10, EMBC'10(2), CIT'10(4), CSE'09 (3), EMBC'09 (2), PDCN'08, CIIT'07 (2), PDCN'06 (3), CIIT'06(5), WTAS'06 (6), CCN'06(5), CIIT'05 (3), CCN'05, WTAS'05, ICPP'04 (4), IC'01(4), ICEC'01(2), IPDPS'01, IC'2000(3), HPDC'00, IPDPS'00, HIPC98, Irregular99 IPPS96, IPPS97, IPPS98, International Conference on Parallel Processing, IEEE Symposium on Parallel and Distributed Processing, EuroPar96, HiPC '96, Workshop on Distributed Multimedia Systems, SPAA96, SPAA97, SIROCCO97, Irregular'96.
- *Other:* USDA, Maryland Industrial Partnerships Program (MIPS).

### *Review Boards*

- NSF grant review panels: February, 2001; February, 2002; February, 2004; November, 2007; February, 2008; July, 2008, November, 2008; May, 2009; June, 2009; May, 2010, February, 2011; May, July, 2012; May, 2013; November, 2013; April, 2015; August, 2017.
- NIH Review committee: October, 2014; October, 2016.

### *Organizing Activities*

- Local organizing committee member, Irregular'96, Santa Barbara, August, 1996.
- Program committee member, publicity chair, session chair, Irregular'99, San Juan, Puerto Rico, April, 1999.
- International program committee member, 2000 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'2000), Las Vegas, June 26-29, 2000.
- Organizer and program chair, First Workshop on Scalable Web Services, The 29th International Conference on Parallel Processing (ICPP 2000), Toronto, Canada, August 21-24, 2000.
- Program Committee member, The 1st International Conference on Internet Computing (IC'2000), Las Vegas, Nevada, June 26-29, 2000.
- Session chair, International Parallel and Distributed Processing Symposium (IPDPS 2000), Cancun, Mexico, May 1-3, 2000.
- Program committee member, The First International Workshop on Internet Computing and E-Commerce (ICEC 2001), to be held in conjunction with the International Parallel and Distributed Processing Symposium (IPDPS 2001), San Francisco, California, May, 2001.
- International program committee member, 2001 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'2001), Las Vegas, June 25-28, 2001.
- Program Committee member, The Second International Conference on Internet Computing (IC'2001), Las Vegas, Nevada, June 25-28, 2001.
- Session chair, ASEE Midwest Section Conference, Manhattan, KS, March 9, 2001.
- Program committee member, The Second International Workshop on Internet Computing and E-Commerce (ICEC'02), to be held in conjunction with the International Parallel and Distributed Processing Symposium (IPDPS'02).
- International program committee member, 2002 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'2002), Las Vegas, June 24-27, 2002.
- Program Committee member, The Third International Conference on Internet Computing (IC'2002), Las Vegas, Nevada, June 24-27, 2002.
- Program Committee member, AAAI/KDD/UAI-2002 Joint Workshop on Real-Time Decision Support and Diagnosis Systems, Edmonton, Alberta, Canada, 29 July 2002.
- Session chair, IASTED Parallel and Distributed Computing and Systems (PDCS 2002), Cambridge, USA, November 4-6, 2002.

- International program committee member, 2003 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'2003), Las Vegas, June 23-26, 2003.
- Program Committee member, The Fourth International Conference on Internet Computing (IC'2003), Las Vegas, June 23-26, 2003.
- Session Chair, IASTED Parallel and Distributed Computing and Systems (PDCS'03), Marina Del Rey, CA, November, 2003.
- Program Committee member, 2004 INTERNATIONAL CONFERENCE ON PARALLEL PROCESSING (ICPP-04), Montreal, Quebec, Canada Aug. 15-18, 2004.
- International program committee member and session chair, 2004 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'2003), Las Vegas, June 21-24, 2004.
- Program Committee member, The Fifth International Conference on Internet Computing (IC'2004), Las Vegas, June 21-24, 2004.
- International program committee member, IASTED International Conference on Communications and Computer Networks (CCN 2005), Marina Del Rey, CA, October 24-26, 2005.
- International program committee member, IASTED International Conference on Communications, Internet and Information Technology (CIIT 2005), Cambridge, USA, October 31-November 2, 2005.
- International program committee member and session chair, IASTED International Conference on Web Technologies, Applications, and Services (WTAS 2005), Calgary, Canada, July 4-6, 2005.
- International program committee member, the 2005 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'05), Las Vegas, NV, June 27-30, 2005.
- International program committee member, the 2005 International Conference on Internet Computing (ICOMP'05), Las Vegas, NV, June 27-30, 2005.
- International program committee member, the 2005 International Symposium on Web Services and Applications (ISWS'05), Las Vegas, NV, June 27-30, 2005.
- International program committee member, the 2005 International Conference on Grid Computing and Applications (GCA'05) Las Vegas, NV, June 27-30, 2005.
- International program committee member, The 2006 International Conference on Semantic Web & Web Services (SWWS'06) Las Vegas, NV, June 26-29, 2006.

- International program committee member, the 2006 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'06), Las Vegas, NV, June 26-29, 2006.
- International program committee member, the 2006 International Conference on Grid Computing and Applications (GCA'06), Las Vegas, NV, June 26-29, 2006.
- International program committee member, the 2006 International Conference on Internet Computing (ICOMP'06), Las Vegas, NV, June 26-29, 2006.
- Session chair, the 2006 International Conference on Semantic Web & Web Services (SWWS'06) Las Vegas, NV, June 26-29, 2006.
- Program committee member, IASTED International Conference on Parallel and Distributed Computing and Networks (PDCN 2007), Innsbruck, Austria, February 13-15, 2007.
- International program committee member, the 2007 International Conference on Internet Computing (ICOMP'07), Las Vegas, NV, June 25-28, 2007.
- Program committee member, IASTED International Conference on Parallel and Distributed Computing and Networks (PDCN 2008), Innsbruck, Austria, February 12-14, 2008.
- International program committee member, the 2008 International Conference on Grid Computing and Applications (GCA'08) Las Vegas, NV, July 14-17, 2008.
- International program committee member, the 2008 International Conference on Semantic Web & Web Services (SWWS'08) Las Vegas, NV, July 14-17, 2008.
- International program committee member, the 2008 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'08), Las Vegas, NV, July 14-17, 2008.
- International program committee member, the 2008 International Conference on Internet Computing (ICOMP'08), Las Vegas, NV, July 14-17, 2008.
- Organizing committee, Great Plains Network Cyberinfrastructure Summit Meeting, Kansas City, MO, December 12, 2008.
- Program Committee, GPN Annual Meeting, Kansas City, MO, May 28-29, 2009.
- Program Committee, IEEE International Conference on Computational Science and Engineering (CSE-09), Vancouver, BC, August 29-31, 2009.
- Session organizer and co-chair, ACM Local Chapter Enhancement & Organization, OU Supercomputing Symposium, Norman, OK, October 6-7, 2009.

- Program Committee, 1st IET International Conference on Frontier Computing (FC'10), Taichung, Taiwan, August, 2010.
- Int'l. Program Committee, 10th IEEE International Conference on Computer and Information Technology (CIT-10), Bradford, UK, 29 June - 1 July, 2010.
- International program committee member, the 2010 International Conference on Grid Computing and Applications (GCA'10) Las Vegas, NV, July 12-15, 2010.
- International program committee member, the 2010 International Conference on Semantic Web & Web Services (SWWS'10) Las Vegas, NV, July 12-15, 2010.
- International program committee member, the 2010 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'10), Las Vegas, NV, July 12-15, 2010.
- International program committee member, the 2010 International Conference on Internet Computing (ICOMP'10), Las Vegas, NV, July 12-15, 2010.
- Program Committee, GPN Annual Meeting, Kansas City, MO, June 2-4, 2010.
- Program Committee, GPN Annual Meeting, Kansas City, MO, June 2-4, 2011.
- Program committee, 11th IEEE International Conference on Computer and Information Technology (CIT-11) Cyprus, August 31 - September 2, 2011.
- International program committee member, the 2011 International Conference on Grid Computing and Applications (GCA'11) Las Vegas, NV, July 18-21, 2011.
- International program committee member, the 2011 International Conference on Semantic Web & Web Services (SWWS'11) Las Vegas, NV, July 18-21, 2011.
- International program committee member and session chair, the 2010 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'11), Las Vegas, NV, July 18-21, 2011.
- International program committee member, the 2011 International Conference on Internet Computing (ICOMP'11), Las Vegas, NV, July 18-21, 2011.
- Program Committee, GPN Annual Meeting, Kansas City, MO, June 2-4, 2011.
- Program committee, 11th IEEE International Conference on Computer and Information Technology (CIT-11) Cyprus, August 31 - September 2, 2011.
- Program Committee, GPN Annual Meeting, Kansas City, MO, June 1-3, 2012.

- International program committee member, the 2012 International Conference on Grid Computing and Applications (GCA'12) Las Vegas, NV, July 16-19, 2012.
- International program committee member, the 2012 International Conference on Semantic Web & Web Services (SWWS'12) Las Vegas, NV, July 16-19, 2012.
- International program committee member and session chair, the 2012 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'12), Las Vegas, NV, July 16-19, 2012.
- International program committee member, the 2012 International Conference on Internet Computing (ICOMP'12), Las Vegas, NV, July 16-19, 2012.
- Member, Arkansas CI-TRAIN External Advisory Committee, Fayetteville, AR, August 13-14, 2012.
- Program committee member, GPN "Big Data" workshop, Fall, 2012.
- Committee member, IMLS Lifecycle Management for Research Data Research Group, Fall, 2012.
- Program Committee, panelist, session chair, GPN Annual Meeting, Kansas City, MO, May 28-30, 2013.
- Program committee member, 15th IEEE International Conference on High Performance Computing and Communications (HPCC 2013), Zhangjiajie, China, November 13-15, 2013.
- External Advisory Committee member, NSF MRI "MRI: Acquisition of a High Performance Compute Cluster for Multidisciplinary Research", Oklahoma State University, Stillwater, OK, August 19, 2013.
- Member, Collaborative Data Lifecycle Project Working Group (with KU, Greater Western Library Alliance, and GPN), September, 2013.
- Program committee, The Fourth International Conference on Advanced Communications and Computation (INFOCOMP 2014), Paris, France, July 20 - 24, 2014.
- Program Committee, GPN Annual Meeting, Kansas City, MO, May 30-June 1, 2014.
- Program Committee member, INFOCOMP 2015, The Fifth International Conference on Advanced Communications and Computation, Brussels, Belgium, June 21-16, 2015.
- Program Committee member, ADVCOMP 2015, The Ninth International Conference on Advanced Engineering Computing and Applications in Sciences, Nice, France, July 19–24, 2015.
- Program Committee member, poster track The Fourth Annual Extreme Science and Discovery Environment Conference (XSEDE15), St. Louis, MO, July 26-30, 2015.



- BoF co-chair, The Fourth Annual Extreme Science and Discovery Environment Conference (XSEDE15), St. Louis, MO, July 26-30, 2015.
- Committee member (and chair 3/2015-present), GPN CI Program Committee, 3/2012.
- Panel Moderator, "DATA STANDARDIZATION AND INTEGRATION", First Annual Midwest Bioinformatics Conference, Kansas City, MO, October 15-16, 2015.
- Program Committee member, The 15th International Conference on Algorithms and Architectures for Parallel Processing (ICA3PP 2015) Zhangjiajie, China, November 18-20, 2015.
- Program Committee member, INFOCOMP 2016, The Sixth International Conference on Advanced Communications and Computation, Valencia, Spain, May 22–26, 2016.
- Program Committee, GPN Annual Meeting, Kansas City, MO, June 1-2, 2016.
- Program Committee member, The First International Workshop on QoS and Energy-aware Algorithms and Protocols in Wireless and Mobile Communications (QoSE WMC 2016), Barcelona, Spain, November 13 - 17, 2016.
- Program Committee member, Third International Conference on CyberGIS and Geospatial Data Science (CyberGIS'16), Urbana, IL, July 26-28, 2016.
- Program Committee, GPN Annual Meeting, Kansas City, MO, June 5-6, 2017.
- Program Committee member, 11th International Conference on Frontier of Computer Science and Technology (FCST-2017), Exeter, UK, June 21-23, 2017.
- Program Committee member, ADVCOMP 2017, The Eleventh International Conference on Advanced Engineering Computing and Applications in Sciences, Barcelona, Spain, November 12 - 16, 2017.
- Program Committee member, The Twelfth International Conference on Software Engineering Advances (ICSEA 2017), Athens, Greece, October 8 - 12, 2017.
- Program Committee member, The 15th IEEE International Symposium on Parallel and Distributed Processing with Applications (IEEE ISPA 2017), Guangzhou, China, December 12-15, 2017.
- Program Committee member, The Eighth International Conference on Advanced Communications and Computation (INFOCOMP'18), Barcelona, Spain, July 22-26, 2018.
- Technical Program Committee member, The 2018 Conference on Practice & Experience in Advanced Research Computing (PEARC'18), Pittsburgh, PA, July 22-27, 2018.
- Program Committee member, The Thirteenth International Conference on Software Engineering Advances (ICSEA 2018), Nice, France, October 14 - 18, 2018.

- Program Committee member, ADVCOMP 2018, The Twelfth International Conference on Advanced Engineering Computing and Applications in Sciences, Athens, Greece, November 18-22, 2018.

*Research Talks/Presentations (non-conference)*

- Third NSF/ARPA/NASA DLI meeting, UCSB, Santa Barbara, CA, Nov., 1995.
- NSF Alexandria Digital Library site visit, Santa Barbara, CA, March, 1996.
- Navy Research and Development (NRAD), San Diego, CA, May, 1996.
- Navy Research and Development (NRAD), San Diego, CA, Sept., 1996.
- Alexandria Advisory Board, Santa Barbara, CA, Jan., 1997.
- SoCal Parallel Meeting, Santa Barbara, CA, March, 1997.
- NSF Alexandria Digital Library site visit, Santa Barbara, CA, May, 1997.
- NSF/ARPA/NASA DLI meeting, Carnegie Mellon University, Pittsburgh, PA, June, 1997.
- SuperComputing '97 (research demonstration), Nov., 1997.
- 1998 Ronald E. McNair Heartland Research Conference (F. Blecha), Kansas City, KS, Sept., 1998.
- Annual McNair Scholars Conference (F. Blecha), Boulder, CO, March, 1998.
- KSU CIS Advisory Board, Manhattan, KS, October, 1998.
- Wind Erosion Research Unit, Manhattan, KS, April, 1999.
- Excel Corp., Wichita, KS, August, 1999.
- KSU CIS Dept. Colloquium, Manhattan, KS, October, 1999.
- KSU CIS Graduate Seminar, Manhattan, KS, January, 2000.
- CIS advisory board, Manhattan, KS, September 15, 2000.
- CIS advisory board (poster), Manhattan, KS, September 15, 2000.
- Cargill Higher Education Steering Committee, Manhattan, KS, October 20, 2000.
- Cargill/Excel IT Management team, Wichita, KS, January 19, 2001.
- Cargill/Excel IT Implementation team, Wichita, KS, January 19, 2001.
- NASA GSFC, Washington, D.C., July, 2001.

- Sprint “University of Excellence,” Kansas City, KS, February 21, 2003.
- Speaker (with J. Pummill), “Championing Users – A Guide to Enabling Campus Researchers,” OSCER Supercomputing Symposium, Norman, OK, October 1–2, 2013.
- Speaker, “Big Data/High Performance Computing Perspectives for Unmanned Systems,” 2013 Kansas Unmanned Systems Conference, Manhattan, KS, October 14-16, 2013.

*Other*

- Engineering & Science Summer Institute (ESSI), two sessions June, 1998.
- KTMJ Fox 6 television news, guest expert on Internet taxation, Junction City, KS, December 15, 1999.
- Wall Street Journal, background on professors leaving for dot-coms, for WorkWeek column (4/21/2000), Dallas, TX, March 16, 2000.
- KTMJ Fox 6 television news, guest expert on impact of electronic media on traditional media, Junction City, KS, April 7, 2000.
- Engineering & Science Summer Institute (ESSI), two sessions June 1, 2000.
- KKSU radio special, guest expert on Internet-based voting, Manhattan, KS, June 14, 2000.
- Engineering Scholarship Day, display coordination and discussion of undergraduate degrees, Manhattan, KS, October 20, 2000.
- CIS Programming Contest, display coordination and discussion of undergraduate degrees, Manhattan, KS, November 1, 2000.
- Kansas State Collegian, multiple quotations in article on Internet plagiarism, Manhattan, KS, April 14, 2002.
- Women Mentoring Women, discussion of department and my research, Manhattan, KS, October 4, 2002.
- Kansas State Collegian, multiple quotations in article on computer-related health problems, Manhattan, KS, December 13, 2002.
- The Hutchinson News, quoted in article “Tangled Web” on the risks of online relationships, <http://www.hutchnews.com/past/08-08-2004/region/region1.html>, Hutchinson, KS, August 8, 2004.
- Kansas State Collegian, quoted in article “New test measures students’ technology aptitude” on technology testing for students, by Jessi Hernandez, Manhattan, KS, February 13, 2006.

- Engineering & Science Summer Institute (ESSI), two sessions May 31, 2007.
- Kansas State Collegian, quoted in article "Engineers now expected to know field, be experienced in other areas," By Whitney Hodgkin, Manhattan, KS, September 25, 2007.
- Cerner Corp., Veterinary Telemedicine, Kansas City, KS, December 2007.
- Cerner Corp., LYE Project, Manhattan, KS January 23, 2008.
- Kansas State Collegian, quoted in article "Concerns arise about speed, reliability of K-State Internet technology," By Holly Campbell, Manhattan, KS, March 25, 2008.
- Kansas City Star, quoted in article "Server farms becoming a cash crop in the Midwest," By Scott Canon, Kansas City, KS, April 26, 2008.
- Kansas State Collegian, quoted in article "Google introduces new operating system," By Aaron Weiser, Manhattan, KS, July 15, 2009.
- Kansas State Collegian, quoted in article "Professors: Total Internet control by Obama impossible," By Karen Ingram, Manhattan, KS, September 2, 2009.
- Panelist, "HPC Sustainability," Great Plains Network (GPN) Annual Meeting, Kansas City, MO, June 2-4, 2010.
- K-State Congressional Delegation, "Midwest HPC Consortium," Manhattan, KS, October 30, 2010.
- Kansas City Star, quoted in article "Will more streaming video overwhelm Internet?", by Scott Canon, Kansas City, KS, November 29, 2010.
- Kansas City Star, quoted in article "For security, lock up your online life", by Scott Canon, Kansas City, KS, December 15, 2010.
- Panelist, K-State ORSP CAREER Workshop Panel, Manhattan, KS, January 26, 2011.
- Kansas City Star, quoted in article "Supply of Internet addresses runs low", by Scott Canon, Kansas City, KS, February 3, 2011.
- Guest lecturer, "Linking Heterogenous Models", Water and Society course, Manhattan, KS, February 29, 2011.
- Kansas City Star, quoted in article "KCK courted Google Internet project quietly, cautiously", by Kevin Collison, Dawn Bormann and Scott Canon, Kansas City, KS, April 2, 2011.
- Invited lecture, "Forecast: Cloudy, with Scattered Storms," GK12 Insight Summer Institute, Manhattan, KS, June 7, 2011.

- Kansas City Star, quoted in article “Cloud computing unlocks possibilities but raises security concerns”, by Scott Canon, Kansas City, KS, June 16, 2011.
- Kansas City Star, quoted in article “Lowly texts are sometimes lost in a high-tech shuffle”, by Scott Canon, Kansas City, KS, July 31, 2011.
- Presenter, KAWSE 4-6th grade girls EXCITE day, Manhattan, KS, September 24, 2011.
- Panelist and presenter, Cybercommons Annual Symposium, Norman, OK, September 31, 2011.
- Panelist (“The Impact of OSCER on OU, Oklahoma, and Beyond”) and presenter (“The Emerging Role of the Great Plains Network in Bridging Campuses to Regional and National Cyberinfrastructure Resources”), Oklahoma Supercomputing Symposium 2011, Norman OK, October 11 - 12, 2011.
- Kansas State University press release, quoted in article “Black Friday or Cyber Monday: Consumers gain more options for holiday deals”, November 7, 2011.
- Kansas City Star, quoted in article “Googles antenna farm plans hint at TV service”, by Scott Canon, Kansas City, KS, February 14, 2012.
- Kansas City Star, quoted in article “Data farms draw big tax breaks, incentives from states”, by Scott Canon, Kansas City, KS, February 24, 2012.
- Speaker, ORSP Data Management Plans Information Session, Manhattan, KS, May 3, 2012.
- Kansas City Star, quoted in article “Details of Google Fiber emerge: Installations could start soon”, by Scott Canon, Kansas City, KS, July 26, 2012.
- Invited session panelist, (“Research and Administrative Stakeholders (Strategic Alignment: OU, Oklahoma, and the National Agenda)”), OU IT Research CI Blue Ribbon Review, August 8, 2012.
- Panelist, K-State ORSP CAREER Workshop Panel, Manhattan, KS, March 7, 2013.
- Panelist, K-State Engineering Faculty Expectations Panel, Manhattan, KS, March 12, 2013.
- Kansas City Star, quoted in article “Google Fiber’s move to Austin, Texas, could be good for Kansas City”, by Scott Canon, Kansas City, KS, April 9, 2013.
- Kansas City Star, quoted in article and on KCMO 710AM news radio show “Microsoft brings war with Google over privacy to Kansas City”, by Scott Canon, Kansas City, KS, April 25, 2013.
- Kansas City Star, quoted in article “Google’s call for open Internet hedged in its own rules”, by Lindsay Wise, Kansas City, KS, August 1, 2013.
- Invited exhibitor, Research Technology Day, Univ. of Missouri Science and Technology, Rolla, MO, September 9-10, 2013.

- KSU news release and K-State Today, quoted in article “Collaboration brings ‘Ready Player One’ egg hunt to campus,” Manhattan, KS, October 31, 2013.
- The Mercury, mentioned in article “K-Staters share game experience,” October 31, 2013.
- HPCWire Sound Byte subject, “Podcast: The Big Data Challenges of Unmanned Systems Research,” by Nicole Hemsworth, <http://www.hpcwire.com/soundbite/big-data-challenges-unmanned-systems-research/>, February 11, 2014.
- KSU news release and K-State Today, mentioned in article “Research prevents zoonotic feline tularemia by finding influential geospatial factors,” Manhattan, KS, February 19, 2014.
- Panelist, ASEE ERC Council Annual Meeting Results Review, Kansas State University, Manhattan, KS, April 25, 2014.
- Invited speaker, “Big Data”, KCALSI Translational Medicine Meeting, Kansas State University, Manhattan, KS, April 28, 2014.
- Invited speaker, “Big Data at Different Scales”, Manhattan Knowledge Based Economic Development Big Data Event, Kansas State University, Manhattan, KS, April 28, 2014.
- Panelist, “Challenges encountered within the campus infrastructure environment”, NSF CC-NIE PI Workshop, Arlington, VA, April 30, 2014.
- K-State Today, quoted in article “Beocat extends reign as largest academic supercomputer in Kansas,” Kansas State University, May 19, 2014.
- Speaker, “Big Data from an HPC Perspective,” Big Data Summit II, in conjunction with the Great Plains Network Annual Meeting, Kansas City, MO, May 28, 2014.
- Speaker (two sessions), “Introduction to Supercomputing: Working Together,” KSU GROWE, Manhattan, KS, June 18 2014.
- The Mercury, mentioned in article “Researchers study how light interacts with matter,” August 18, 2014.
- K-State Today, topic in article “Andresen named to national supercomputing leadership team,” Kansas State University, September 15, 2014.
- Invited speaker, “Minimum Time, Maximum Effect: Introducing Parallel Computing in CS0 and STEM Outreach Activities Using Scratch,” Missouri University of Science and Technology RTD Days, Rolla, MO, September 16, 2014.
- Panelist, “Computational Cyberinfrastructure: Future Directions,” Missouri University of Science and Technology RTD Days, Rolla, MO, September 16, 2014.

- Invited speaker, “Minimum Time, Maximum Effect: Introducing Parallel Computing in CS0 and STEM Outreach Activities Using Scratch,” Oklahoma Supercomputing Exposition, Norman, OK, September 24, 2014.
- Invited speaker, “Accessible Parallelization for the Open Modeling Interface (OpenMI),” XSEDE Workflow Symposium, September 26, 2014.
- K-State Today, topic in article “Computing and information sciences professor receives National Science Foundation grant,” Kansas State University, September 26, 2014.
- Invited speaker, “Minimum Time, Maximum Effect: Introducing Parallel Computing in CS0 and STEM Outreach Activities Using Scratch,” Holland Computing Center, Lincoln, NE September 30, 2014.
- K-State Today, mentioned in article “Student teams tackle computer programming problems for prizes,” Kansas State University, October 27, 2014.
- K-State Today, mentioned in article “Programming competition draws strong field of competitors,” Kansas State University, March 5, 2015.
- Kansas State Collegian, quoted in article “3-D printing to enter science classrooms,” By Bridget Beran, Manhattan, KS, April 21, 2015.
- Invited speaker, “Research Collaborations in HPC and Big Data,” Containment Information Technology Conference, Biosafety Research Institute, Kansas State University, Manhattan, KS, May 1, 2015.
- K-State Today, mentioned in article “K-State recognized as Extreme Science and Engineering Discovery Environment national supercomputing partner,” Kansas State University, May 12, 2015. (Also featured in KSU College of Engineering Noteworthy@engg, <https://www.engg.ksu.edu/news/noteworthy/view/#2183> .)
- Kansas City Star, quoted in article “In the bandwidth-rich KC market, is Google Fiber going too far to foil digital piracy?”, by Scott Canon, Kansas City, KS, May 30, 2015.
- Agronomy Extension e-Update, mentioned in article “New soybean yield calculator app from K-State,” [https://webapp.agron.ksu.edu/agr\\_social/eu\\_article.throck?article\\_id=635](https://webapp.agron.ksu.edu/agr_social/eu_article.throck?article_id=635) Manhattan, KS, July 27, 2015.
- Speaker, “Big Data, Small Budget,” Oklahoma Supercomputing Exposition, Norman, OK, September 24, 2015.
- Invited exhibitor, XSEDE, Wichita State University Technology Fair, October 13, 2015.
- Panelist, KSU ORSP CAREER Workshop Panel, Manhattan, KS, November 30, 2015.

- K-State Today, mentioned in article “Engineering research project may allow future consumers to ‘buy and sell’ electricity,” Kansas State University, April 25, 2016.
- Kansas Hypercore (KanREN 100Gbps upgrade), quoted in multiple articles and in a radio interview on KMAN 1350 by Kathy Dawes. KSU Press Release “HyperCore is coming: Network upgrade offers enhanced research capacity to state’s universities,” <http://www.k-state.edu/media/newsreleases/jun16/hypercore61516.html>, and <https://www.highbeam.com/doc/1G1-455201130.html>, Topeka Capital-Journal (<http://cjonline.com/news/business/2016-06-25/business-watch-paxico-wine-brings-home-awards>), June 15, 2016.
- Invited Panelist, “‘If I Knew Then What I Know Now...’”, New Faculty Institute luncheon, Manhattan, KS, September 7, 2016.
- BoF organizer and chair (with Dana Brunson), “Birds-of-a-Feather Session: XSEDE Region 4 Campus Champions”, Oklahoma Supercomputing Symposium 2016, Norman, OK, September 21, 2016.
- BoF organizer and chair, “Birds-of-a-Feather Session: XSEDE Region 4 Campus Champions”, Coalition for Advancing Digital Research & Education (CADRE), Stillwater, OK, April 11-12, 2017.
- BoF organizer and chair (with Dana Brunson), “Birds-of-a-Feather Session: XSEDE Region 4 Campus Champions”, GPN Annual Meeting, Kansas City, MO, June 5-6, 2017.
- Mentioned in “K-State-led team earns \$10.6 million grant for brain research highlights a new center to study neural plasticity”, and my involvement in leading the neuroinformatics core.” See the press release, “Team receives nearly \$11 million COBRE grant to establish neuroscience research center.” (<http://www.k-state.edu/media/newsreleases/2017-07/cobre72617.html>) Manhattan Mercury ([http://themercury.com/news/k-state-led-team-earns-million-grant-for-brain-research/article\\_72dac418-efee-5011-8906-e34034a1a150.html](http://themercury.com/news/k-state-led-team-earns-million-grant-for-brain-research/article_72dac418-efee-5011-8906-e34034a1a150.html)), Manhattan, KS, July 27, 2017.
- BoF organizer and chair (with Dana Brunson), “Birds-of-a-Feather Session: XSEDE Region 4 Campus Champions”, Oklahoma Supercomputing Symposium 2017, Norman, OK, September 27, 2017.
- Invited speaker, “CaaS: Ceph as a Service,” Great Plains Network booth, International Conference for High Performance Computing, Networking, Storage and Analysis (SC’17), Denver, CO, November 15, 2017.
- Invited speaker, “Suboptimal Optimization Techniques for HPC,” NIH COBRE C-NAP center group meeting, Kansas State University, Manhattan, KS, December 6, 2017.



- K-State Today, quoted in article “Beocat regains title as largest academic supercomputer in Kansas,” Kansas State University, Manhattan, KS, December 6, 2017.
- K-State Today, mentioned in article “Computer scientists to study application of big data for improved disaster management and response,” Kansas State University, Manhattan, KS, January 10, 2018.
- The Mercury, “TOP CAT K-State’s Beocat regains title of largest state academic supercomputer,” on the front page, quotes me and highlights Beocat and its impact at K-State. Manhattan, KS, February 9, 2018.

*Memberships*

- ACM 1997-present
- ACM SIGCOMM 1997-present
- ACM SIGARCH 1997-present
- ACM SIGHPC 2012 - present
- ACM SIGHPC Education Chapter 2014-present
- IEEE/CS 1998-present
- National Computing Grid Forum 1999-present
- IEEE Task Force on Cluster Computing 1999-present
- IEEE Communications Society 2005-present
- Electronic Frontier Foundation (EFF) 1999-present
- American Society for Engineering Education 2000-present
- USENIX 2000-present
- IASTED 2003-present
- Heartland Renewable Energy Society 2005-present
- EDUCAUSE Advanced Core Technologies Initiative (ACTI) Campus Cyberinfrastructure Group 2011-present

## UNIVERSITY ACTIVITIES

### *Grants Funded*

1. Co-PI, NSF (Award no. IIS-1741353, 1/18-12/21), "BIGDATA: IA: Collaborative Research: Domain Adaptation Approaches for Classifying Crisis Related Data on Social Media," \$1.3M October, 2017.
2. Co-PI, NSF (Award no. CHE-1726332, 8/17-9/20), "MRI: Acquisition of a GPU-Enabled Computer Cluster for Molecular Modeling Applications," \$350,000 August, 2017.
3. Co-PI and Neuroinformatics Core director, NIH (P20GM113109, 7/2017 - 7/2022), Cognitive and Neurobiological Approaches to Plasticity (C-NAP) Center of Biomedical Research Excellence (COBRE), \$10.6M July, 2017.
4. Co-PI, Kansas Corn Commission (7/16-6/17), "Corn Management Decision Guiding Website and Mobile App," \$39,968 March, 2016.
5. Senior Person, NSF (Award no. CNS-1544705, 10/15-9/18), "CPS: Synergy: Architecture for Future Distribution Systems Including Active Consumers with Rooftop Solar Generation," \$700,000 October, 2015.
6. Int'l. collaborator, National Natural Science Foundation of China (Award no. 61502413, 01/16 - 12/18), "Research on Software Process Improvement based on Requirement Changes," \$40,000, August 2015.
7. PI, NSF (Award no. ACI-1440548, 9/14-8/16), "CC-IIE Networking Infrastructure: Next-generation networking environments for biological and agricultural data-driven research at Kansas State University," \$231,500 September, 2014.
8. PI, NSF (Award no. CNS-1429316, 9/14-9/17), "MRI:Acquisition of an Adaptive Data Cluster for Data-intensive Applications in Science and Engineering," \$300,000 August, 2014.
9. Senior Person, (EPSCoR Track I, KU, KSU, UNL, Award no. IIA-1430493, 8/14-8/17), "Collaborative Research: Imaging and Controlling Ultrafast Dynamics and Atoms, Molecules, and Nanostructures," \$6M total August, 2014.
10. PI, NSF (Award no. ACI-1341026, 11/13-10/16), "CC-NIE Network Infrastructure: KGAP: Bridging the gap in network flexibility and performance for genomics and data-intensive research at Kansas State University," \$499,113 September, 2013.
11. co-PI, NSF (Award no. CNS-1224007, 9/12-8/15), "TWC TTP: Small: Security, Privacy, and Trust for Systems of Coordinating Medical Devices," \$482,125 August, 2012.

12. co-PI, NSF (Award no. DUE-1241721, 8/13-8/17, co-PI since 5/14), "Building the National Cyber Workforce: New SFS Program at Kansas State University," \$851,328 August, 2012.
13. co-PI, Dept. of Health and Human Services (9/11-8/14), "Development of a Prototype Healthcare Intranet for Improved Health Outcomes," \$375,000 September, 2011.
14. PI, NSF MRI (Award no. 1126709, 9/11-8/14), "MRI: Acquisition of a Hybrid GPU Computing Cluster High-End Applications in Science and Engineering," \$700,000 September, 2011.
15. Senior Person, NSF CPS (Award no. CNS-1136040, '11-'15), "Components, Run-time Substrates, and Systems: Medium: Holonic Multi-Agent Control of Intelligent Power Distribution Systems," \$1.1M September, 2011.
16. co-PI, NSF GK12 (Award no. 0948019, 3/10-3/15, co-PI since 8/13), "Infusing System Design and Sensor Technology in Education (INSIGHT)," \$2.2M March, 2010.
17. co-PI, NSF EPSCoR (Award no. 1006860), "Prairie Light: Next Generation Networking for Mid-continent Science," \$1.176M August, 2010.
18. co-PI, NSF CPS (Award no. 0932289), "CPS:Medium:Collaborative Research:Infrastructure and Technology Innovations for Medical Device Coordination," \$839,548 September, 2009.
19. Senior personnel, NSF CNH (Award no. 0909515), "Hyper-extractive Economies and Sustainability: Policy Scenarios for Sustainable Water Use in the High Plains Aquifer," \$1.5M September, 2009.
20. co-PI, NSF EPSCoR RII Track II (Award no. 0919443), "Oklahoma and Kansas: A cyberCommons for Ecological Forecasting," \$3M (\$1.5M to K-State, \$6M between KS and OK) September, 2009.
21. co-PI, NSF SIR, "Development of an Open Test-Bed for Application of Formal Methods to Plug-and-Play Medical Devices," \$55,000 September, 2007
22. co-PI, USDA, "Developing an Accessible and Comprehensive Cattle Risk Management Information Library," \$97,188 August, 2007
23. Senior personnel, NSF CI-TEAM, "CI-TEAM Demonstration Project: Cyberinfrastructure Education for Bioinformatics and Beyond," \$249,974 December, 2006.
24. Senior personnel, NSF EPSCOR, "Ecoforecasting Kansas," funded at \$6,750,000 April, 2006
25. co-PI, NSF CRI, "CRI: An Experimentation Platform for Developing Customized, Large-Scale Sensor Systems," \$200,000 March, 2006.
26. co-PI, KSU Targetted Excellence Award (w/Gurdip Singh et al), "Center for Sensors and Sensor Systems," up to \$1.5M Summer, 2005

27. co-PI, Cabem Technologies, "EKAT + GIS," \$67,000 May, 2005
28. PI, NSF REU "Veterinary Telemedicine: Proactive Herd Health Management for Disease Prevention from Farm to Market", \$12,000 May, 2005.
29. co-PI, DURIP "Parallel Analysis of Models or Distributed Real-Time Embedded Systems", \$394,991 May, 2004.
30. PI, NSF REU "Veterinary Telemedicine: Proactive Herd Health Management for Disease Prevention from Farm to Market", \$12,000 May, 2004.
31. PI, NSF ITR "Veterinary Telemedicine: Proactive Herd Health Management for Disease Prevention from Farm to Market", \$899,996 September, 2003.
32. co-PI, "Occasionally-connected RSVP," USDA, \$150,000 August, 2003.
33. co-PI, NSF EPSCoR Student Travel Award, \$428 June, 2003.
34. co-PI, NSF EPSCoR Student Travel Award, \$448 June, 2003.
35. PI, NSF ITR proposal, "Veterinary Telemedicine: Proactive Herd Health Management for Disease Prevention from Farm to Market", \$107,025 August, 2002.
36. PI, Steel and Pipe Supply Corp, Compaq DS-10, DS-20, and AlphaServer 4000 servers, \$19,100 July, 2002
37. PI, NSF REU ITR supplement, "DHARMA: Domain-Specific Metaware for Hydrologic Applications," \$10,000 July, 2002
38. co-PI, USDA, "Software Tools for Watershed Dam Design/Analysis," \$22,500 September, 2001.
39. PI, NSF CAREER, "DESPOT: Enhanced Dynamic Process Management for Beowulf Clusters on the Grid," \$222,572 August, 2001.
40. PI, KSU SLIP Mini-grant, \$120 August, 2001.
41. PI, NSF REU ITR supplement, "DHARMA: Domain-Specific Metaware for Hydrologic Applications," \$12,000 August, 2001
42. co-PI, NASA EPSCOR, "Software Architectures for Autonomous Communication System," \$120,000 May, 2001
43. co-PI, USDA, "Software Tools for Watershed Dam Design/Analysis," \$20,000 September, 2000.
44. PI, NSF ITR, "DHARMA: Domain-Specific Metaware for Hydrologic Applications," \$498,615 September, 2000.
45. PI, KSU SLIP Mini-grant, \$120 August, 2000.

46. PI, "Cargill Faculty Fellowship for Engineering," Cargill/Excel Corp., \$47,177 May, 2000.
47. co-PI, Wind River Systems, Inc., WindLink University Partner Program (non-cash), \$467,600 March, 2000.
48. PI, KSU Faculty Development Award, \$750 February, 2000.
49. co-PI, WalMart/NCR Datamining Technology Grant, NCR WorldMark 5100 (80 processors, 20GB RAM, 1.7TB disk), \$5,000,000 January, 2000.
50. co-PI, "Real Time Crop Water Management and Irrigation Scheduling Web Site," Kansas Water Resources Research Institute, \$48,500 January, 2000.
51. Senior Research Associate, "Real-Time Embedded Systems Research and Curriculum Development," NSF Proposal 9990321, \$399,096 September, 1999.
52. PI, KSU Faculty Development Award, \$500 April, 1999.
53. PI, KSU SLIP Mini-grant, \$120 August, 2000.
54. PI, "High Performance Data Mining Applications on Computer Clusters," MESA Technologies Corp., \$13,487 June, 1999.
55. PI, "Cargill Faculty Fellowship for Engineering," Cargill/Excel Corp., \$30,000 May, 1999.

*Committee Memberships*

- CIS Computer Infrastructure Committee (chair 2001-present) 1997-present
- College of Engineering Computer Needs Committee 1998-2003
- CIS Undergraduate Curriculum Committee 1998-2014
- CIS Undergraduate Recruitment Committee 2014-present
- College of Engineering Honors and Awards Committee 2003-2005
- K-State Online Advisory Council 2003-2006
- College of Engineering Future Computing Architecture Task Force 2004-present
- Women in Engineering and Science Program (WESP) Faculty Advisory Board 2005-present
- GIS Commons Steering Committee 2008-present
- College of Engineering Faculty Mentoring Program Task Force 2008-present
- Computer Science PPA Committee January, 2016.

*University Activities*

- XSEDE Campus Champion December, 2011 - present
- XSEDE Campus Champion Leadership Team August, 2014 - present
- Developing Scholars Program mentor
- Future IT Infrastructure Project lead
- Participant, KSU College of Engineering Diversity Workshop, May 13-14, 2004.

*Honor Society Memberships*

- Upsilon Pi Epsilon engineering honors society 1990-1992
- Omicron Delta Kappa honors society 1988-1990
- Phi Kappa Phi honors society 1989-1990

*Classes taught*

- Operating Systems (CIS520): Fall '97, Spring '98, Fall '98, Fall '99, Spring '00, Fall '00, Spring '01, Fall '01, Spring '02, Fall '02, Spring '03, Fall '03, Spring '04, Fall '04, Spring '05, Fall '05, Spring '06, Fall '06, Spring '07, Spring '08, Fall '08, Spring '09, Fall '09, Fall '15, Fall '16, Spring '17.
- Web Interface Design (CIS526): Spring, '13, '14, '15.
- Advanced WWW Technologies (CIS726): Spring '98, '99, '00, '01, '02, '03, '04, '05, '06, '07, '08, '09, '10, Fall '10, '11, '12, '13 (co-taught with CIS526).
- Topics in Distributed Systems (CIS825): Fall, '98.
- Cybersecurity (CIS798, co-taught): Fall, '05.
- Computer Architecture (CIS450): Spring '10, '11, '12, Fall '10, '11, '12, '13, '14.
- Concurrent Computing (CIS625): Spring '09, '10, '11, '15, Fall '17.
- Software Engineering (CIS641): Fall '14, Spring '15.

**ADVISING**

*Ph.D. Major Professor* Qian, Hao (CIS, Fall '15).

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