

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**
- KSU Engineering Student Council Outstanding Leadership Award December,
2004, 2005, 2008.
- NSF CAREER Award 2001
- Residence hall's Professor of the Year nominee 2000, 2002
- Cargill Faculty Fellow 1999, 2000
- Listed in "International Who's Who of Information Technology"
- College of Engg. James L. Hollis Memorial Award for Excellence in Undergrad-
uate Teaching nominee 1999,
2006
- California State Research Assistantship Fellowship. 1992-1993
- Mathematics and Computer Science Student of the Year,
Westmont College. 1990
- Dean's scholarship, Westmont College. 1987-1990
- Dean's List, Westmont College. 1988-1990
- RESEARCH INTERESTS**
- Parallel and distributed systems, scheduling, digital libraries/WWW applications,
Grid computing, cluster computing, and object-oriented software.
- TEACHING INTERESTS**
- Graduate-level parallel/distributed computing, networking, operating systems,
and computer architectures. Most undergraduate-level courses. Courses taught
include operating systems (CIS520), Topics in Distributed Systems (CIS825),
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

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

IS 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

RESEARCH EXPERIENCE

Current Research

My research interests remain in the area of distributed and parallel high-performance computing, and are currently focussed on three NSF-funded projects:

- *DHARMA* ('00-'03, \$498,615) The DHARMA domain-specific middleware system is intended to allow hydrologic field engineers to tackle water-management problems on a scale previously impossible without sophisticated computational management systems. DHARMA provides automatic data acquisition via the Internet; data fusion from online, local, and cached resources; smart caching of intermediate results; parallel process execution; automatic transformation and piping of data between different hydrologic simulation models; and interfaces with existing metacomputing systems. Our target watershed model, WEPP, is limited to very small watersheds with current computer technology. A revolutionary change in hydrologic modeling on the watershed scale will be brought about by applying various watershed models to large watersheds, such as the Lake Decatur Watershed which covers 925 square miles.
- *DESPOT* ('01-'05, \$222,572) The DESPOT project is building a sophisticated thread-level resource-monitoring system for computational, storage and network resources based on SGI's Performance Co-Pilot (PCP). Current systems for managing workload on clusters of workstations, particularly those available for Linux-based (Beowulf) clusters, are typically based on traditional process-based, coarse-grained parallel and distributed programming.
- *Veterinary Telemedicine* ('02-'03, \$107,025, '03-'08, \$899,996) We have just been awarded funding for this project, which intends to research and develop the technological and sociological infrastructure to support intelligent, mobile medical monitoring devices that continuously assess cattle state of health in concentrated and distributed herds. These monitoring systems will improve the ability of the animal sciences industry to react to and predict disease onset and its epidemiological spread, whether from natural or terrorist events. Trend analysis, information storage, and health prediction lessons learned from this effort will have immediate application to distributed medical systems targeted at assessing and predicting human state of health and the spread of disease in human populations.

Our plan is to place Bluetooth-compliant monitoring stations near cattle congregation points, such as feed bunks and watering troughs. These stations will upload data from nearby environmental sensors, Bluetooth-enabled devices with global positioning capability that are worn by the animals, and wearable/remote biomedical sensors. Initial algorithms will perform rapid analysis on local data prior to uploading summary data for the ranch to regional databases so that these data can be correlated with data provided by other producers. Significant findings can then be immediately broadcast to appropriate medical personnel and producers.

Thesis Work Overview

The thesis focuses on scheduling and a software system for utilizing multi-processor server and client resources in WWW/digital library applications. Main research issues addressed include:

- *Dynamic request scheduling for scalable distributed servers:* fulfilling requests across multiple computers to improve response times by actively monitoring network, processor, and disk resources.
- *Adaptive client-server computing:* exploiting the client resources and considering data locality and networking cost to optimize client-server system performance.
- *Digital library applications:* Applications of above techniques for fast multi-level image and document browsing.
- *System implementation:* Integrating the above techniques in a software system called SWEB++ on distributed memory machines (Meiko CS-2), workstation clusters (SCI/Ethernet-connected SUN and DEC workstations) and SMPs (HP/Convex Exemplars). The system also aids programmers in integrating the SWEB++ techniques with their WWW applications. The system kernel has been written in 6000 lines of C++, and is being ported to Java for inclusion into the Alexandria Digital Library system. Tests using our techniques have shown significant improvements over conventional WWW implementations.

Other Projects

Ray-tracing NURBS surfaces: The subject of the M.S. thesis was ray-tracing non-uniform rational B-spline surfaces (NURBS). A major contribution of the project was a fast heuristic for determining the intersection of a ray with the surface.

Neural Networks: The subject of my Honors in Major project was neural networks, in which a survey of the current state-of-the-art was written.

PUBLICATIONS

1. 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.
2. S. Hoskins, D. Andresen, S. Warren, T. Sobering, "Near-Field Wireless Magnetic Link for an Ingestible Cattle Health Monitoring Pill," to appear 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.
3. 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%.
4. 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%.
5. 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.
6. 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%.
7. 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.
8. 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.
9. 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.

10. 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.
11. 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.
12. 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.
13. 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.
14. 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%.
15. 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%.
16. 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.
17. 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.
18. 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.
19. 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 Dis-*

- tributed Computing and Systems (PDCS 2004)*, pp. 743–748, Boston, MA, November 3-5, 2004.(nominated for the PDCS Best Paper Award)
20. 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.
 21. 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.
 22. 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.
 23. 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%.
 24. 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.
 25. 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.
 26. D. Andresen, M. Nielsen, 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.
 27. 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.

28. 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.
29. 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 Conf. Sept.2003, Cancun, Mexico
30. 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.
31. 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.
32. 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.
33. K. Kim, P. Kalita, D. Andresen, M. Nielsen, 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
34. 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.
35. 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. (also 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).
36. 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%.
37. 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.

38. 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%.
39. 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.
40. 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%.
41. 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.
42. 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.
43. 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%.
44. 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%.
45. 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.
46. 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.
47. 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%.
48. 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%.

49. R. Busby, M. Neilsen, D. Andresen, Enhancing NWS for use in an SNMP Managed Internet-work, in the proceedings of the 2000 International Parallel and Distributed Processing Symposium (IPDPS'00), pp. 506-513, Cancun, Mexico, May, 2000. Acceptance rate: 35%.
50. 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.
51. 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.
52. 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.
53. 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%.
54. D. Andresen, T. McCune, Towards a Hierarchical Scheduling System for Distributed WWW Server Clusters, Proc. of the Seventh IEEE International Symposium on High Performance Distributed Computing(HPDC7), Chicago, Illinois, pp. 301-309, July, 1998. Acceptance rate: 31%.
55. 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.
56. 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.
57. 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.
58. 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.
59. 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%.

60. 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.)
61. 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%.
62. 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%.
63. 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. 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.
2. D. Duffey, D. Andresen, DUMP: Dump User Memory, Please, KSU CIS Tech Report 2002-2, 2002.
3. D. Andresen, R. Novotny, The Modeler's Workbench: A system for Dynamically distributed simulation and data collection, KSU CIS Tech Report99-13, 1999.
4. D. Andresen, T. Yang, Adaptive Scheduling with Client Resources to Improve WWW Server Scalability, UCSB Tech Report TRCS96-27, 1996.
5. 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.
6. 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. D. Andresen, "Beocat: Providing Computational Support for the K-State Research Community," poster session, OU Supercomputing Symposium, Norman, OK, October 6-7, 2009.

2. 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%.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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)
8. 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.
9. 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)
10. D. Andresen, Graduate Student's Survival Guide, Dept. of Computer Science, UCSB, 1994.

* 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.
- Editorial Board, Intl. Journal of Next-Generation Computing, 2009 - present

Paper Refereeing

- *Journals:* 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, IEEE Transactions on Services Computing, Journal of Supercomputing.
- *Conferences:* 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.

Review Boards

- NSF grant review boards: February, 2001; February, 2002; February, 2004; November, 2007; February, 2008; July, 2008, November, 2008; May, 2009; June, 2009.

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 2007 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.

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.

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 Hodgin, 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.

Memberships

- ACM 1997-present

- ACM SIGCOMM 1997-present
- ACM SIGARCH 1997-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

UNIVERSITY ACTIVITIES

Grants Funded

- co-PI, NSF CPS (Award no. 0932289), "CPS:Medium:Collaborative Research:Infrastructure and Technology Innovations for Medical Device Coordination," \$839,548 September, 2009.
- 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.
- 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.
- 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
- co-PI, USDA, "Developing an Accessible and Comprehensive Cattle Risk Management Information Library," \$97,188 August, 2007
- Senior personnel, NSF CI-TEAM, "CI-TEAM Demonstration Project: Cyberinfrastructure Education for Bioinformatics and Beyond," \$249,974 December, 2006.
- Senior personnel, NSF EPSCOR, "Ecoforecasting Kansas," funded at \$6,750,000 April, 2006
- co-PI, NSF CRI, "CRI: An Experimentation Platform for Developing Customized, Large-Scale Sensor Systems," \$200,000 March, 2006.
- co-PI, KSU Targetted Excellence Award (w/Gurdip Singh et al), "Center for Sensors and Sensor Systems," up to \$1.5M Summer, 2005
- co-PI, Cabem Technologies, "EKAT + GIS," \$67,000 May, 2005
- PI, NSF REU "Veterinary Telemedicine: Proactive Herd Health Management for Disease Prevention from Farm to Market", \$12,000 May, 2005.
- co-PI, DURIP "Parallel Analysis of Models or Distributed Real-Time Embedded Systems", \$394,991 May, 2004.
- PI, NSF REU "Veterinary Telemedicine: Proactive Herd Health Management for Disease Prevention from Farm to Market", \$12,000 May, 2004.
- PI, NSF ITR "Veterinary Telemedicine: Proactive Herd Health Management for Disease Prevention from Farm to Market", \$899,996 September, 2003.
- co-PI, "Occasionally-connected RSVP," USDA, \$150,000 August, 2003.

- co-PI, NSF EPSCoR Student Travel Award, \$428 June, 2003.
- co-PI, NSF EPSCoR Student Travel Award, \$448 June, 2003.
- PI, NSF ITR proposal, "Veterinary Telemedicine: Proactive Herd Health Management for Disease Prevention from Farm to Market", \$107,025 August, 2002.
- PI, Steel and Pipe Supply Corp, Compaq DS-10, DS-20, and AlphaServer 4000 servers, \$19,100 July, 2002
- PI, NSF REU ITR supplement, "DHARMA: Domain-Specific Metaware for Hydrologic Applications," \$10,000 July, 2002
- co-PI, USDA, "Software Tools for Watershed Dam Design/Analysis," \$22,500 September, 2001.
- PI, NSF CAREER, "DESPOT: Enhanced Dynamic Process Management for Beowulf Clusters on the Grid," \$222,572 August, 2001.
- PI, KSU SLIP Mini-grant, \$120 August, 2001.
- PI, NSF REU ITR supplement, "DHARMA: Domain-Specific Metaware for Hydrologic Applications," \$12,000 August, 2001
- co-PI, NASA EPSCOR, "Software Architectures for Autonomous Communication System," \$120,000 May, 2001
- co-PI, USDA, "Software Tools for Watershed Dam Design/Analysis," \$20,000 September, 2000.
- PI, NSF ITR, "DHARMA: Domain-Specific Metaware for Hydrologic Applications," \$498,615 September, 2000.
- PI, KSU SLIP Mini-grant, \$120 August, 2000.
- PI, "Cargill Faculty Fellowship for Engineering," Cargill/Excel Corp., \$47,177 May, 2000.
- co-PI, Wind River Systems, Inc., WindLink University Partner Program (non-cash), \$467,600 March, 2000.
- PI, KSU Faculty Development Award, \$750 February, 2000.
- co-PI, WalMart/NCR Datamining Technology Grant, NCR WorldMark 5100 (80 processors, 20GB RAM, 1.7TB disk), \$5,000,000 January, 2000.
- co-PI, "Real Time Crop Water Management and Irrigation Scheduling Web Site," Kansas Water Resources Research Institute, \$48,500 January, 2000.
- Senior Research Associate, "Real-Time Embedded Systems Research and Curriculum Development," NSF Proposal 9990321, \$399,096 September, 1999.

- PI, KSU Faculty Development Award, \$500 April, 1999.
- PI, KSU SLIP Mini-grant, \$120 August, 2000.
- PI, "High Performance Data Mining Applications on Computer Clusters," MESA Technologies Corp., \$13,487 June, 1999.
- 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-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

University Activities

- 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.

- Advanced WWW Technologies (CIS726): Spring '98, '99, '00, '01, '02, '03, '04, '05, '06, '07.
- Topics in Distributed Systems (CIS825): Fall, '98.
- Cybersecurity (CIS798, co-taught): Fall, '05.

ADVISING

Ph.D. Major Professor none.

Ph.D. Committee Member Venkatesh P Ranganath (CIS, '06), Satish Motipalli (MNE, '07), Sunitha Kopparthi (EECE, '07).

Ph.D. Outside Committee Chair: Yue Jiao (Industrial Engineering, 2003), Hamed Ghazali (Education, 2003), Yan Ling (Statistics, 2008).

M.S. and M.S.E. Major Professor Tim McCune (MSE, 12/98), Mahadev Alladi (MSE, 8/99), Henry Vidal (MS, 8/99), Nelson Terrazas (MSE, 12/99), David Glantz (MSE, 5/00), Sudhir Kaul (MSE, 8/00), Kevin Rea (MS, 8/00), Riad Aziz (MSE, 12/00), Jian Gu (MS, 12/00), Prashanth Sankaran (MS, 12/00), Xuefu Zhang (MS, 12/00), Ashutosh Agte (MS, 5/01), Habibullah (MSE, 5/01), Jianzhou Chen (MSE, 8/01), Deep Kapadia (MS, 5/01), Rita Hargrove (MS, 8/01), Sorel Robledo (MSE, 12/01), Baohua Huang (MS, 5/02), Ryan Porter (MSE, 5/02), Varsha Redkar (MS, 8/02), Shahid Dalvi (MS, 12/02), Venkat Gajjala (MS), Samantha Gangapuram (MS), Jesse Greenwald (MSE), Mahesh Kondwilkar (MS, 12/02), Sadanand Kota (MS, 12/02), Marc Machin (MSE), Harish Maringanti (MS), Jagannathan Nambi (MS, 12/02), Divyajnana Nanjaiah (MSE), Robert Pallack (MSE), Vishwak Rajgopalan (MS), Huseni Saboowala (MSE), Ashish Sharma (MS), Rengakrishnan Subramanian (MS), Madhu Tera (MS, 12/02), Tingyuan Zhu (MS, 12/02), Sharath Madathil (MSE), Bhuvana Muralidharan (MSE), Vinay Prabhakaran (MS).

M.S. and M.S.E. Committee Member Baosong Zhao (MS, 8/98), Russell Carver (MS, 5/99), Raymond D'Amico (MS, 5/99), Mallika Mruthyunjaya (MS, 5/99), Robert Busby (MS, 9/99), Arvind Gopalan (MSE, 12/99), Lakshmi Maraju (MSE, 12/99), Robert Novotny (MSE, 12/99), Surysuma Uppuluri (MS, 12/99), Bryan Johnson (MSE, 5/00), Joanna Johnson (MSE, 5/00), Shakeel Badarpura (MS, 8/00), Hong Liu (MS, 8/00), Mustafa Behrainwala (MS, 12/00), Sivaram Gottimukkala (MS, 12/00), Shuqiong Teng (MSE, 12/00), Vrushali Koranne (MS, 5/01), Ping Zou (MSE, 5/01), Feng Chen, (MS, 8/01), Pallavi Paranjape (MS, 8/01), Ashok Reddy (MS, 8/01), Chris Spriegel (MSE, 8/01), Yihua Feng (MSE, 12/01), Farzana Idris (MSE, 12/01), Jayaraman, Vishwanath (MSE, 12/01), Zongying He (MSE, 5/02), Shibing Liu (MSE, 5/02), Elizabeth Loza-Garay (MSE, 5/02), Girish Shenoy (MS, 5/02), Wenyang Sun (MSE, 5/02), Justin Horn (MSE, 8/02), Santosh Kaveti (MSE, 8/02), Vijay Kolli (MSE, 8/02), Samuel Marten (MS, 8/02), Kiran Ramineni (MS, 8/02), Amit Dhir (MS), Mrunal Dhond (MS), Lingkang Huang (MS, 5/03), Zhiyong Huang (MSE), Kishore Ivatury (MS), Stacy Lacy (MSE, 12/02), Weifeng Li (MSE), Jiahong Liu (MSE), Tan Liu (MS, 12/02), Bob Maddula (MS), Varsha Mahadevan (MS), Lax Muktinutalapati (MSE), Venkateshwar Nagireddy (MS), Walamitrien Oyenen (MSE), Nitesh Pai (MS), Jose Rubio (MSE), Vishal Shah (MS), Nur Dina Shahabudin (MSE), Amit Sharma (MS),

Haidi Tu (MS, 12/02), Narasimh Uruppattur (MS), Yuyu Wang (MSE), Yunyan Xaio (MSE), Xuemei Yang (MSE), Xu Zhang (MS, 12/02), Yu Zhang (MSE)

Senior Honors Project Advisor Frank Blecha, Elizabeth Heine, Travis Johnson, Brett Stallman, Jesse Greenwald, Casey Ewing, David Duffey, Matthew Hoosier, Patrick Schwisow, Sara Heine, Robert Detrick, Brad Hajek.

McNair Scholars Program Frank Blecha.

Kansas NSF EPSCoR Summer Research Internship Roland Craddolph.

Developing Scholars Andrea Mesa.

Campus organizations Baptist Student Union/Christian Challenge faculty advisor, Developing Scholars Program mentor, McNair Scholars Program mentor, Local ACM chapter faculty advisor.