

## TRACY KAY CAMP

June 30th, 2021

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### EDUCATION:

- Ph.D.** Computer Science, The College of William & Mary, Williamsburg, VA, Dec. 1993.  
**M.S.** Computer Science, Michigan State University, Lansing, MI, Mar. 1989.  
**B.A.** Mathematics, Kalamazoo College, Kalamazoo, MI, June 1987.

### EXPERIENCE:

- 2016 – present **Department Head**, Computer Science, Colorado School of Mines. Founding Department Head of the Department of Computer Science at Mines (CS@Mines).  
2007 – present **Professor**, Colorado School of Mines. Affiliated Faculty for Center for Entrepreneurship & Innovation, since 2018. Director of the Toilers Research Group, since 1993. Associate Director of CARDI, 2003-12; CARDI Director 2012-17. Co-Director SmartGeo, 2008-16. Interim Department Head, 2010-11. Graduate Faculty at University of Colorado, Boulder, 2002-10.  
2020–present **Technical Advisor**, Center for Inclusive Computing, Northeastern University.  
Feb.–June 2006 **Fulbright Scholar**, Department of Computer Science and Software Engineering, University of Canterbury, Christchurch, New Zealand.  
2000–2007 **Associate Professor**, Colorado School of Mines.  
1998–2000 **Assistant Professor**, Colorado School of Mines.  
1993–1998 **Assistant Professor**, The University of Alabama.  
1991–1993 **Assistant System Administrator**, The College of William & Mary.  
1989–1991 **Graduate Research Assistant**, The College of William & Mary.  
1987–1989 **Graduate Teaching Assistant**, Michigan State University.  
1984–1987 **Undergraduate Teaching Assistant**, Kalamazoo College.

### EXTERNAL GRANTS:

- T. Camp, “Computer Science - Fundamental Approach to Standards Training (CS-FAST)”, Colorado Department of Education, 2022-0016, \$167,280, July 2021 through June 2022.
- C. Yue and T. Camp, Cybersecurity Scholarship Program, Department of Defense, \$294,420, July 2021 through June 2022. Funds five CySP students.
- T. Camp and C. Liebe, WORTH: Women’s Opportunity to Redesign Technology and History, Xilinx Women in Technology University Grant Program, \$32,400 (cash) and \$9,540 (in kind), October 2020 through December 2021.
- C. Yue and T. Camp, Cybersecurity Capacity Building Program, Department of Defense, \$188,877, July 2020 through December 2021.

**EXTERNAL GRANTS cont.:**

- C. Yue and T. Camp, Cybersecurity Scholarship Program, Department of Defense, \$191,610, July 2020 through December 2021. Funds three CySP students.
- T. Camp, D. Lasich, and G. Jackson, “Path Ambassadors To High Success”, National Science Foundation, #DUE-1644198, \$649,628, December 15th, 2016 through November 30th, 2021.
- T. Camp, C. Rader, and C. Moroye, “CS10K: C-START: Colorado - Strategic Approach to Rally Teachers”, National Science Foundation, #CNS-1543231, \$1,025,507, October 15th, 2015 through September 30th, 2021.
- T. Cath, T. Holloway, T. Camp, S. Mohagheghi, and A. Hering, “PFI:BIC: Self-Correcting Energy-Efficient Water Reclamation Systems for Tailored Water Reuse at Decentralized Facilities”, National Science Foundation, #IIP-1632227, \$959,945, September 1st, 2016 through August 31st, 2019.
- T. Camp, “Rogue Base Stations”, LGS Innovations, \$50,000, 2016-17.
- T. Camp and A. Bernat (Computing Research Association), “Mentoring Women Faculty in Computer Science and Engineering”, National Science Foundation, #HRD-1310792 \$548,929, September 15th, 2013 through August 31st, 2017.
- M. Mooney, T. Camp, J. Delborne, A. Revil, and W. Zhou, “Advancing Earth Dam and Levee Sustainability through Monitoring Science and Condition Assessment”, National Science Foundation, #OISE-1243539, \$4,158,783, January 1st, 2013 through December 31st, 2016.
- T. Camp, A. Bernat (Computing Research Association), and M. Perez-Quinones (Virginia Polytechnic Institute and State University), “Sustainable Diversity in the Computing Research Pipeline”, National Science Foundation, #CNS-1246649, \$5,569,431, October 1st, 2012 through September 30th, 2017.
- C. Rader, T. Camp, and W. DuBow (CU-Boulder), “Collaborative Research: BP: CS Unplugged: Encourage Computing Without Computers”, National Science Foundation, #CNS-1240964, \$580,159, October 1st, 2012 through September 30th, 2015.
- C. Rader and T. Camp, “Exploring Computational Thinking in Middle Schools Using CS-Unplugged”, Google, \$8,000, June 1st, 2012 through December 31st, 2012.
- T. Camp, A. Bernat, and M. Perez, “BPC Pipeline: Five Year Extension”, National Science Foundation, #CNS-1042403, \$750,720, March 1st, 2011 through Jan. 31st, 2014. Original PI was K. Fisher (until Nov. 2011). Two supplements awarded in 2012 for \$99,902 and \$26,000.
- T. Camp, “BPC: Let’s CONNECT”, National Science Foundation, #CNS-0940632, \$598,604, April 1st, 2010 through March 31st, 2014.
- T. Camp, “MobiCom Student Travel Grants”, National Science Foundation, #CNS-1046300 and #CNS-1043772, \$42,000, August 1st, 2010 through July 31st, 2011.
- T. Camp (PI), “Broader Impacts for Research and Discovery Summit”, National Science Foundation, #CNS-1033413, \$214,173, April 1st, 2010 through March 31st, 2013. (Collaborators J. Gilbert at Clemson University, J. Goldsmith at University of Kentucky, and S. Khuller at University of Maryland awarded \$296,432 for a total project award of \$510,605.)

**EXTERNAL GRANTS cont.:**

- T. Camp, “NeTS: Medium: Collaborative Research: Cooperative Beamforming for Efficient and Secure Wireless Communication”, National Science Foundation, #CNS-0905513, \$150,000, September 1, 2009 through August 31st, 2013. (Collaborators Athina Petropulu at Drexel University, H. Vincent Poor at Princeton University, and Zhu Han at University of Houston awarded \$525,000 for a total project award of \$675,000.)
- M. Mooney, T. Camp, A. Revil, J. Delborne, and L. Figueroa, “IGERT: Intelligent Geosystems”, National Science Foundation, #DGE-0801692, \$3,200,000, July 1st, 2008 through June 30th, 2013.
- T. Camp, “Practices Aggregation, Infrastructure, and Retrieval Service for Broadening Participation in Computing (PAIRS)”, National Science Foundation, #CNS-0634278, \$122,393, April 15, 2007 through March 31, 2011. (Collaborators L. Barker at University of Austin and A. Agogino at University of California-Berkeley awarded \$539,517 for a total project award of \$661,910.) Includes REU supplements received May 2008 and May 2009.
- T. Camp, “CONNECT: Creating Open Networks and Expanding Connections with Technology,” National Science Foundation, #CNS-0738102, \$84,395, Jan. 1st, 2008 through June 30th, 2010.
- T. Camp and W. Navidi, “Improving the Credibility of MANET Simulation Scenarios,” National Science Foundation, #CNS-0848130, \$69,668, Aug. 15th, 2008 through January 30th, 2010.
- T. Camp, D. Keyek-Franssen (CU-Boulder), W. Kuehner (University of Denver), “Inspiring AmbITion”, Microsoft Research through the National Center for Women in Information Technology, \$10,000, Sept 15, 2007 through Sept 14, 2008.
- T. Camp and M. Colagrosso (Senior Personnel). “ALlow Improved Access in the Network via Coordination and Energy Savings (ALLIANCES),” National Science Foundation #CNS-0435376, \$282,000. Sept 15th, 2004 through Aug. 31st, 2008. (Collaborator A. Petropulu at Drexel University awarded \$360,000, for a total project award of \$642,000.) Includes REU supplements received May 2005, May 2007, and May 2008.
- T. Camp. “Characterizing Protocol Interaction in NEWS: A Network Environment Wireless State Service,” National Science Foundation #ANI-0240558, \$288,676. June 1st, 2003 through May 31st, 2008. (Collaborator V. Syrotiuk at ASU awarded \$212,324, for a total project award of \$501,000.) Includes REU supplements received June 2004 and May 2005.
- T. Camp. “Reversing the Trends in Questionable Network Simulations and Acute Gender Imbalance”, Fulbright Scholarship to New Zealand, 2006.
- T. Camp. “Erskine Fellowship at the University of Canterbury, Christchurch, New Zealand,” 2006. Award offered but not accepted (because Fulbright Scholarship was received).
- T. Camp and M. Colagrosso. “Meetings for Networking of Sensor Systems at Colorado School of Mines,” National Science Foundation #CNS-0451431, \$69,976. October 1st, 2004 through September 30th, 2005.
- W. Navidi and T. Camp. “Adaptive Protocols for Mobile Ad Hoc Networks,” National Science Foundation #ANI-0208352, \$406,500. September 1st, 2002 through August 31st, 2006. Includes REU supplements received May 2003, July 2004, and May 2005.

**EXTERNAL GRANTS cont.:**

- J. Impagliazzo, T. Camp, and D. Gurer, “Dissemination of the Inroads (SIGCSE Bulletin) Special Issue on Women and Computing,” National Science Foundation #EIA-0226221, \$35,880. August 1st, 2002 through July 31st, 2003.
- T. Camp and W. Navidi. “Development of Geocasting Protocols for a MANET,” National Science Foundation #ANI-0073699, \$324,433. July 15th, 2000 through June 30th, 2005. Includes REU supplements received May 2001 and May 2002.
- T. Camp. “Graduate Student Internships,” A.T.&T. Broadband, \$20,000. August 2002–August 2003.
- T. Camp. “CASI Mentored Internship,” Colorado Advanced Software Institute, \$5,000. Jan.-June 2001.
- K. Miller, T. Camp, D. Johnson, and L. Smith King. “Teaching Computer Ethics with Workshops and the Web,” National Science Foundation #DUE-9952841, \$417,422. Jan. 1st, 2000 through May 1st, 2004. Includes supplement received Jan. 2001.
- T. Camp, “ALAMODE: A Laboratory at Mines Offering Distributed Environments,” National Science Foundation #DUE-9950910, \$90,427, Aug. 15, 1999 through Aug. 14, 2003.
- T. Camp, “**CAREER** Grant: Development of a Mobile Network Architecture (Mobi-Arch),” National Science Foundation #NCR-9702449 and #ANI-9996156, \$230,000. Aug. 16, 1997 through Aug. 15, 2002. Includes research supplement received Dec. 1998 and REU supplement received May 1999.
- D. Gurer and T. Camp, “Investigating the Incredible Shrinking Pipeline for Women in Computer Science,” National Science Foundation #EIA-9812016, \$67,495. Sept. 1, 1998 through Aug. 31, 2000.
- D. Brown, T. Camp, D. Cordes, and R. Pimmel, “Air Defense Advanced Technology Support,” U.S. Army Aviation and Missile Command (AMCOM), \$69,250. May 16, 1998 through Aug. 15, 1998.
- T. Camp, Collaborative Research Project, Equipment Grant, Sun Microsystems, \$29,270. Sept. 1997.
- T. Camp and W. Aspray (Computing Research Association), “Support for 75 Travel Grants to attend the Grace Hopper Celebration of Women in Computing Conference,” National Science Foundation #CDA-9707894, \$56,000. May 15, 1997 through May 14, 1998.
- A. Borg (Digital Equipment Corporation) and T. Camp, “Support for 85 Travel Grants to attend the Grace Hopper Celebration of Women in Computing Conference,” \$70,000 from Intel Foundation, USENIX Organization, AAAI, Quantum Corp., and Oracle Corp., May 15, 1997 through May 14, 1998.
- T. Camp, “Implementation of Fast Data Transfer with Global Flush Broadcasts,” National Science Foundation #NCR-9523815, \$17,369. July 15th, 1996 through July 14th, 1997.

#### **OTHER EXTERNAL FUNDING:**

- T. Camp, “C-MAPP: Computing-Mines Affiliates Partnership Program,” \$574,000, 2014-2020.
- T. Camp, “DECtech: Discover, Explore, Create Technology,” \$105,000, 2013-2021.
- T. Camp and E. Jessup, “RMCWiC: ACM Rocky Mountain Celebration of Women in Computing,” over \$350K raised, 2008-2021.
- T. Camp, “Lockheed Martin Software Academy,” \$50,000, 2018-2019.
- T. Camp, “LGS Innovation Fellowship Program,” \$72,000, 2017-2019.
- T. Camp and W. Heizelman, “N2Women: Networking Networking Women,” over \$30K raised, 2006-2016.

#### **INTERNAL GRANTS:**

- T. Camp, “No Student Left Behind,” Mines Innovation Fund, \$25,000. 2020-21.
- T. Camp and M. Rubin, “Arduino Fio Motes for Wireless Sensor Network Applications Class,” CSM Technology Fee, \$3,245. Fall 2013.
- M. Colagrosso, B. Whalen, and T. Camp. “Enhancing the MCS Curriculum through Wireless Sensor Networks,” CSM Technology Fee, \$12,400. Spring 2005.
- T. Camp and M. Robbert, “Providing Wireless Access in the MCS Department,” CSM Technology Fee, \$4,000. Spring 2002.
- T. Camp, and L. Becker, “ALAMODE: A Laboratory at Mines Offering Distributed Environments,” CSM Technology Fee, \$7,500. Spring 2000.
- D. Smith, T. Camp, and E. Van Vleck, “Upgrading Networking in the Math. and Computer Sciences Department for the 21st Century,” CSM Technology Fee, \$10,000. Spring 1999.
- T. Camp, “Reducing Power Consumption of Mobile Hosts,” Research Grants Committee, \$4,000. University of Alabama, Summer 1997.
- T. Camp, “Fast Data Transfer: A Practical Implementation,” Research Grants Committee, \$4,000. University of Alabama, Summer 1995.

#### **IMPACT OF PAPERS:**

As of June 2021, Dr. Camp’s articles have been cited 14,794 times (per Google Scholar).

As of June 2021, Dr. Camp’s h-index (Hirsch number) is 37 (per Google Scholar); in other words, according to Google Scholar, Dr. Camp has at least 37 articles with 37 or more citations.

Dr. Camp’s articles described 14 software packages that have been requested from (and shared with) more than 4,000 researchers in 88 countries/regions (as of June 2021).

### EDITOR OF SPECIAL ISSUE:

- E-1. S. Giordano, T. Camp, X. Luo, T. Tian, and E. Biagioni, Guest Editors of Special Issue, “Social and Mobile Solutions in Ad Hoc and Sensor Networking”, *IEEE Communications Magazine*, vol. 54, July 2016.
- E-2. N. Aschenbruck and T. Camp, Guest Editors of Special Issue, “Scenarios for ad hoc Network Evaluation Studies (SCENES)”, *Ad Hoc Networks*, vol. 12, January 2014. Message from Guest Editor: pp. 1. After two successful workshops, this special issue intends to disseminate the latest research results in the SCENES research area, by providing an overview of the current state-of-the-art scenario models and methodologies for model validation and credible performance evaluation for ad hoc networks.
- E-3. T. Camp, Guest Editor of Special Issue, “Women and Computers”, *ACM SIGCSE Bulletin*, vol. 34, no. 2, June 2002. Message from Guest Editor: pp. 6–8. This special issue consists of nine editorials, 21 invited papers (which were thoroughly reviewed and revised), eight reprints, and several peripherals. The issue is approximately 200 pages and involved 53 invited authors. International authors invited were from Deakin University in Australia, Central Queensland University in Australia, University of British Columbia in Canada, University of East London in England, and University of Witwatersrand in South Africa. Because of the success of this special issue (over 22,503 copies were distributed around the world), T. Camp assisted ACM and SIGCSE to create a CD, called “Pathways: Women and Computing”, that includes several special issues on women and computing.

### INVITED BOOK CONTRIBUTIONS:

- B-1. National Academies of Sciences, Engineering, and Medicine, “Assessing and Responding to the Growth of Computer Science Undergraduate Enrollments”, The National Academies Press, 2018.
- B-2. T. Camp, “Location Information Services in Mobile Ad Hoc Networks”, Chapter 14 in *Handbook of Algorithms for Mobile and Wireless Networking and Computing*, (editor A. Boukerche), pp. 317–339, 2005.
- B-3. B. Bynum and T. Camp, “BACI: The Ben-Ari Concurrent Programming System,” Appendix E in *Operating Systems Internals and Design Principles: Fifth Edition*, by W. Stallings, pp. 772–784, Prentice Hall, 2005. Updated version of a chapter in the Third (1998) and Fourth (2001) Editions.

### REFEREED JOURNAL PUBLICATIONS (students/post-docs underlined):

**Acceptance rates of journals are given when known.**

- RJ-1. D.G. Regina, T. Camp, A. Munjal, and S.L. Toral, “Evolutionary deployment and local search-based movements of 0th responders in disaster scenarios”, *Future Generation Computer Systems*, vol. 88, pp. 61-78, 2018.
- RJ-2. D.G. Regina, T. Camp, A. Munjal, S.L. Toral, and H. Tawfik, “Evolutionary Deployment and Hill Climbing-Based Movements of Multi-UAV Networks in Disaster Scenarios”, *Applications of Big Data Analytics*, pp. 63-95, 2018.
- RJ-3. W. Fisher, T. Camp, and V. Krzhizhanovskaya, “Anomaly Detection in Earth Dam and Levee Passive Seismic Data Using Support Vector Machines and Automatic Feature Selection”, *Journal of Computational Science*, vol. 20, pp. 143-153, 2017.

**REFEREED JOURNAL PUBLICATIONS (students/post-docs underlined) cont.:**

- RJ-4. T. Camp, W.R. Adrion, B. Bizot, S. Davidson, M. Hall, S. Hambrusch, E. Walker, and S. Zweben, “Generation CS: The Growth of Computer Science”, *ACM Inroads*, vol. 8, no. 2, pp. 44-50, June 2017.
- RJ-5. T. Camp, W.R. Adrion, B. Bizot, S. Davidson, M. Hall, S. Hambrusch, E. Walker, and S. Zweben, “Generation CS: The Mixed News on Diversity and the Enrollment Surge”, *ACM Inroads*, vol. 8, no. 3, pp. 36-42, Sept. 2017.
- RJ-6. T. Camp, W.R. Adrion, B. Bizot, S. Davidson, M. Hall, S. Hambrusch, E. Walker, and S. Zweben, “Generation CS: The Challenges and Responses to the Enrollment Surge”, *ACM Inroads*, vol. 8, no. 4, pp. 59-65, Dec. 2017.
- RJ-7. M. Rubin, M. Wakin, and T. Camp, “Lossy Compression for Wireless Seismic Data Acquisition”, *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (JSTARS)*, vol. 9, no. 1, pp. 236-252, 2016.
- RJ-8. K. Jaffres-Runser, S. Rollins, T. Camp, and W. Heinzelman, “10 Years of Networking Networking Women”, *ACM GetMobile*, vol. 20, no. 4, pp. 12-16, 2016. Invited.
- RJ-9. K. Jaffres-Runser, S. Rollins, T. Camp, and W. Heinzelman, “10 Years of Networking Networking Women”, *ACM GetMobile*, vol. 20, no. 4, pp. 12-16, 2016. Invited.
- RJ-10. A. Munjal, W. Navidi, and T. Camp, “Steady-State of The SLAW Mobility Model”, *Journal of Communications*, vol. 9, no. 4, pp. 322-331, 2014.
- RJ-11. X. Yang and T. Camp, “Collision Resolution MAC Protocols for Wireless Ad Hoc Networks”, *Communications and Network*, vol. 5, no. 1, pp. 16-33, 2013.
- RJ-12. A. Munjal, T. Camp, and N. Aschenbruck, “Changing Trends in Modeling Mobility”, *Journal of Electrical and Computer Engineering*, 16 pages, 2012. doi:10.1155/2012/372572
- RJ-13. T. Camp, “Computing, We Have a Problem”, *ACM Inroads*, vol. 3, no. 4, pp. 34-40, 2012. doi:10.1145/2381083.2381097
- RJ-14. K. Stone and T. Camp, “A Survey of Distance-based Wireless Sensor Network Localization Techniques”, *International Journal of Pervasive Computing and Communications*, vol. 8, no. 2, pp. 158-183, 2012. doi:10.1108/17427371211245373
- RJ-15. S. Kurkowski, W. Navidi, T. Camp, and J. Norman, “Constructing Rigorous MANET Simulation Scenarios,” *Ad Hoc & Sensor Wireless Networks*, vol. 14, no. 3-4, pp. 155-179, 2012.
- RJ-16. N. Aschenbruck, A. Munjal, and T. Camp, “Trace-based Mobility Modeling for Multi-hop Wireless Networks,” *Computer Communications*, 34(6), pp. 704–714, May 2011.
- RJ-17. A. Munjal, T. Camp, and W. Navidi, SMOOTH: A Simple Way To Model Human Walks, *Mobile Computing and Communications Review*, vol. 14, no. 4, pp. 34-36, October 2010. (Poster Abstract)
- RJ-18. X. Yang, T. Camp, H. Yang, and A. Petropulu, “Extending network lifetime for ALLIANCES”, *Computer Communications*, vol. 32, pp. 1837-1851, 2009.
- RJ-19. S. Kurkowski, T. Camp, and M. Colagrosso, “A Visualization and Analysis Tool for Wireless Simulations: iNSpect”, *ACM’s Mobile Computing and Communications Review*, to appear, 2009.
- RJ-20. H. Yang, A. Petropulu, X. Yang, and T. Camp, “A Novel Location Relay Selection Scheme for ALLIANCES,” *IEEE Transactions on Vehicular Technology*, 57(2):1272-1284, 2008.
- RJ-21. T. Camp and P. Kearns, “Fast Batched Data Transfer with Flush Channels: A Performance Analysis,” *Journal of Parallel and Distributed Computing*, vol. 66, no. 6, pp. 780–795, June 2006.

**REFEREED JOURNAL PUBLICATIONS (students/post-docs underlined) cont.:**

- RJ-22. S. Kurkowski, T. Camp, and M. Colagrosso, “MANET Simulation Studies: The Incredibles”, *ACM’s Mobile Computing and Communications Review*, vol. 9, no. 4, pp. 50–61, October 2005. **19% acceptance ratio:** Only 19% of the submitted papers to MC2R from Jan. 2005 to Sept. 2006 were accepted.
- RJ-23. N. Bauer, M. Colagrosso, and T. Camp, “Efficient Implementations of All-to-All Broadcasting in Mobile Ad Hoc Networks”, *Pervasive and Mobile Computing*, vol. 1, no. 3, pp. 311–342, September 2005.
- RJ-24. B. Williams, D. Mehta, T. Camp, and W. Navidi, “Predictive Models to Rebroadcast in Mobile Ad Hoc Networks”, *IEEE Transactions on Mobile Computing*, vol. 3, no. 3, pp. 295–303, July 2004.
- RJ-25. W. Navidi and T. Camp, “Stationary Distributions for the Random Waypoint Mobility Model”, *IEEE Transactions on Mobile Computing*, vol. 3, no. 1, pp. 99–108, January-March 2004.
- RJ-26. T. Camp and Y. Liu, “An Adaptive Mesh-based Protocol for Geocast Routing” *Journal of Parallel and Distributed Computing (JPDC): Special Issue on Routing in Mobile and Wireless Ad Hoc Networks*, vol. 62, no. 2, pp. 196–213, February 2003.
- RJ-27. T. Camp, J. Boleng, and V. Davies, “A Survey of Mobility Models for Ad Hoc Network Research”, *Wireless Communications & Mobile Computing (WCMC): Special issue on Mobile Ad Hoc Networking: Research, Trends and Applications*, vol. 2, no. 5, pp. 483–502, August 2002. **19% acceptance ratio:** Only 19% of the submitted papers to this special issue were accepted.
- RJ-28. R. Hutchins, T. Camp, and P. Enslow, “A Novel Approach to Mobility Management,” *ACM Computer Communications Review*, vol. 29, no. 1, pp. 86–96, 1999.
- RJ-29. T. Camp, J. Luth, and J. Matocha, “Locating Group Members in a Mobile Environment,” *Information Sciences*, vol. 100, pp. 51–62, 1997.
- RJ-30. S. Burdette, T. Camp, and B. Bynum, “Distributed BACI: A Toolkit for Distributed Applications,” *Concurrency: Practice and Experience*, vol. 12, pp. 35–52, 2000.
- RJ-31. S. Tomic, S. Vrbsky, and T. Camp, “A New Measure of Temporal Consistency for Derived Objects in Real-time Database Systems,” *Information Sciences*, vol. 124, pp. 139–152, 2000.
- RJ-32. I. Terekhov and T. Camp, “Time Efficient Deadlock Resolution Algorithms,” *Information Processing Letters*, vol. 69, pp. 149–154, 1999.
- RJ-33. J. Matocha and T. Camp, “A Taxonomy of Distributed Termination Detection Algorithms,” *The Journal of Systems and Software*, vol. 43, no. 3, pp. 207–221, 1998.
- RJ-34. T. Camp, P. Kearns, and M. Ahuja, “Proof Rules for Flush Channels,” *IEEE Transactions on Software Engineering*, vol. 19, no. 4, pp. 366–378, 1993.
- RJ-35. T. Camp, “CS Programs in Engineering Colleges = Fewer Females,” *Journal of Women and Minorities in Science and Engineering*, vol. 4, no. 1, pp. 15–25, 1998.
- RJ-36. T. Camp, “The Incredible Shrinking Pipeline,” *Communications of the ACM*, vol. 40, no. 10, pp. 103–110, 1997. Re-published in *Inroads: SIGCSE journal*, vol. 33, no. 2, June 2002.
- RJ-37. A. Parrish, D. Cordes, S. Vrbsky, T. Camp, C. Fortner, and G. Scales, “Assessing Computing Knowledge Among College Students,” *Journal of Computer Science Education*, vol. 10, no. 3, pp. 9–14, 1996.



**REFEREED CONFERENCE PUBLICATIONS (students/post-docs underlined):**  
**Acceptance rates of conferences are given when known.**

- RC-1. T. Camp, C. Liebe, and and H. Thiry, “CS@Mines Successful S-STEM Scholarship Ecosystem for Low-Income and Underrepresented Students”, *Proceedings of 52nd ACM Technical Symposium on Computer Science Education (SIGCSE)*, 7 pages, 2021.
- RC-2. T. Camp, C. Liebe, and and M. Slattery, “Applying NCWIT Protocol to Broaden Participation in Computing: A Case Study of CS@Mines”, *Proceedings of 51st ACM Technical Symposium on Computer Science Education (SIGCSE)*, 7 pages, 2020. **Best Paper for the Experience Report and Tools Track.**
- RC-3. T. Kalin, K. Stone, and T. Camp, “AMAZE: Recognizing Speakers with Amazon’s Echo Dot Device”, *Proceedings of 16th IEEE International Conference on Mobile Ad Hoc and Sensor Systems (MASS)*, 12 pages, 2019.
- RC-4. C. Liebe, and T. Camp, “An Examination of Abstraction in K-12 Computer Science Education”, *Proceedings of 19th Koli Calling International Conference on Computing Education Research (Koli Calling '19)*, 9 pages, 2019.
- RC-5. B. Jackson and T. Camp, “Amazon Echo Security: Machine Learning to Classify Encrypted Traffic”, *Proceedings of 27th International Conference on Computer Communication and Networks (ICCCN)*, 10 pages, 2018.
- RC-6. B. Watkinson and T. Camp, “Training a RoboCup Striker Agent via Transferred Reinforcement Learning”, *Proceedings of the RoboCup Symposium*, 12 pages, 2018. **Conference had ~20% acceptance ratio for oral presentation.**
- RC-7. W. Fisher, B. Jackson, T. Camp, and V. Krzhizhanovskaya, “Anomaly detection in earth dam and levee passive seismic data using multivariate Gaussian”, *Proceedings of 16th IEEE International Conference on Machine Learning and Applications (ICMLA)*, pp. 685-690, 2017.
- RC-8. S. Gonzalez T. Camp, and K. Jaffrès-Runser, “The Sticking Heartbeat Aperture Resynchronization Protocol”, *Proceedings of the 26th International Conference on Computer Communications and Networks (ICCCN 2017)*, 8 pages, 2017.
- RC-9. B. Rodriguez, S. Kennicutt, C. Rader, and T. Camp, “Assessing Computational Thinking in CS Unplugged Activities”, *Proceedings of ACM SIGCSE*, 6 pages, 2017. **Conference had ~30% acceptance ratio.**
- RC-10. W. Fisher, C. Rader, and T. Camp, “Online Programming Tutors or Paper Study Guides?”, *Proceedings of Frontiers in Education (FIE 2016)*, 6 pages, 2016.
- RC-11. B. Rodriguez, C. Rader, and T. Camp, “Using Student Performance to Assess CS Unplugged Activities in a Classroom Environment”, *Proceedings of Innovation and Technology in Computer Science Education (ITiCSE 2016)*, 6 pages, 2016. **Conference had ~38% acceptance ratio.**
- RC-12. W. Fisher, T. Camp, and V. Krzhizhanovskaya, “Detecting Erosion Events in Earth Dam and Levee Passive Seismic Data with Clustering”, *Proceedings of 14th IEEE International Conference on Machine Learning and Applications (ICMLA)*, pp. 903-910, 2015. **Conference had 30% acceptance ratio.**
- RC-13. T. Mota, A. Munjal, and T. Camp, “Large-scale Human Mobility Analysis Based on Mobile Phone and Social Media Communication: A Case-study in Africa”, *Proceedings of 16th IEEE International Conference on Mobile Data Management*, 6 pages, 2015.

**REFEREED CONFERENCE PUBLICATIONS (students underlined) cont.:**

- RC-14. W. Fisher and T. Camp, “Unsupervised Learning: Detecting Events in Earth Dam and Levee Data”, *Proceedings of Grace Hopper Celebration of Women in Computing*, 3 pages, 2015.
- RC-15. T. Camp, M. Rubin, and S. Gonzalez, “Challenges in Developing Intelligent Geosystems (and the pros/cons of interdisciplinary research)”, *Proceedings of 9th IEEE International Conference on Computing, Networking and Communications (ICNC)*, 7 pages, 2015. Invited. **Conference had ~25% acceptance ratio**
- RC-16. M. Rubin, M. Wakin, and T. Camp, “A Comparison of On-Mote Lossy Compression Algorithms for Wireless Seismic Data Acquisition”, *Proceedings of 9th IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS)*, 8 pages, 2014. **30.1% acceptance ratio**
- RC-17. M. Rubin and T. Camp, “On-Mote Compressive Sampling to Reduce Power Consumption for Wireless Sensors”, *Proceedings of 10th IEEE International Conference on Sensing, Communication, and Networking (SECON)*, 9 pages, 2013. **18.2% acceptance ratio**
- RC-18. M. Rubin, M. Wakin, and T. Camp, “Sensor Node Compressive Sampling in Wireless Seismic Sensor Networks”, *Proceedings of the 1st IEEE/ACM Workshop on Signal Processing Advances in Sensor Networks (SPASN)*, 5 pages, 2013.
- RC-19. K. Stone and T. Camp, “CAIRN: Creating Anchors for Localization in Realistic Networks”, *Proceedings of the 31st IEEE International Performance Computing and Communications Conference (IPCCC)*, 11 pages, 2012.
- RC-20. C. Walsh, D. Hakkarinen, and T. Camp, “Distributed Decode and Forward Beamforming”, *Proceedings of the 37th IEEE Conference on Local Computer Networks (LCN)*, 9 pages, 2012. **<30% acceptance ratio.**
- RC-21. M. Rubin, T. Camp, A. van Herwijnen and J. Schweizer, “Automatically Detecting Avalanche Events in Passive Seismic Data”, *Proceedings of the 11th International Conference on Machine Learning and Applications (ICMLA)*, 8 pages, 2012.
- RC-22. M. Rubin and T. Camp, “Monitoring Lift-Served Backcountry Access Gates in Real Time: SkinTrack’s First Season at Ski Loveland, Colorado”, *Proceedings of the 2012 International Snow Science Workshop*, 7 pages, 2012.
- RC-23. M. Rubin, T. Camp, and A. van Herwijnen, “Automatically Finding Avalanches in Geophone Data: A Pattern Recognition Workflow”, *Proceedings of the 2012 International Snow Science Workshop*, 4 pages, 2012.
- RC-24. A. Munjal, T. Mota, and T. Camp, “Exploring Social Interactions via Multi-Modal Learning”, *Proceedings of the Mobile Data Challenge Workshop by Nokia (held at PerCom)*, 6 pages, 2012. **<20% acceptance ratio.**
- RC-25. D. Hakkarinen, T. Camp, and Z. Chen, and A. Haas, “Reduced Data Communication for Parallel CMA-ES for REACTS”, *Proceedings of the 20th Euromicro International Conference on Parallel, Distributed and Network-Based Processing (PDP)*, 5 pages, 2012.
- RC-26. A. Munjal, T. Camp, and W. Navidi “SMOOTH: A Simple Way To Model Human Walks,” *Proceedings of the 14th ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM)* 10 pages, 2011. **32% acceptance ratio.**

**REFEREED CONFERENCE PUBLICATIONS (students underlined) cont.:**

- RC-27. K. Stone, C. Oden, B. Hoenes, and T. Camp, “Hardware for Wireless Geophysical Monitoring,” *Proceedings of the IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)* 8 pages, 2011. **32% acceptance ratio.**
- RC-28. B. Vargo, C. Rader, and T. Camp, “Encouraging Participation in Computer Science with CONNECT”, *Proceedings of the 2011 Frontiers in Education Conference*, 6 pages, 2011.
- RC-29. K. Stone and T. Camp, “The Ins and Outs of Distance-based WSN Localization Schemes,” *Proceedings of the 2011 International Conference on Wireless Networks (ICWN)*, 7 pages, 2011. **22% acceptance ratio.**
- RC-30. C. Metcalfe, T. Camp, M. Colagrosso, and O. Chase, “TestbedProfiler: A Validation Tool for Wireless Sensor Network Testbed Deployment,” *Proceedings of the 35th IEEE Conference on Local Computer Networks (LCN)*, 4 pages, 2010.
- RC-31. K. Stone, D. Hakkarinen, and T. Camp, “Listening to Everyone’s Voice Enhances Learning (LEVEL),” *Proceedings of the 35th IEEE Conference on Local Computer Networks (LCN)*, 4 pages, 2010.
- RC-32. K. Stone, B. Hoenes, and T. Camp, Hardware for Continuous Wireless Geophysical Monitoring of Dams and Levees, *Proceedings of the 2nd Colorado Celebration of Women in Computing (CCWIC)*, 6 pages, 2010.
- RC-33. A. Munjal, T. Camp, and W. Navidi, “Constructing Rigorous MANET Simulation Scenarios with Realistic Mobility,” *Proceedings of the European Wireless 2010 (EW)*, 8 pages, 2010.
- RC-34. X. Yang and T. Camp, “A-MAC: Efficient Medium Access for Cluster-based Wireless Sensor Networks,” *Proceedings of the 28th International Performance Computing and Communications Conference (IPCCC)*, 10 pages, 2009. **26.1% acceptance ratio.**
- RC-35. X. Yang and T. Camp, “An Energy-Aware Relay Selection Scheme for ALLIANCES,” *Proceedings of the IEEE PerCom International Workshop on Pervasive Wireless Networking*, 7 pages, 2009.
- RC-36. S. Kurkowski, W. Navidi, and T. Camp, “Constructing MANET Simulation Scenarios That Meet Standards”, *Proceedings of the 3rd IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)*, pp. 1–9, 2007. **25.3% acceptance ratio.**
- RC-37. X. Yang, E. Krohne, and T. Camp, “Performance Evaluation of ALLIANCES”, *Proceedings of the ACM Grace Hopper Celebration of Women in Computing*, CD proceedings (six pages), 2007.
- RC-38. S. Kurkowski, W. Navidi, and T. Camp, “Discovering Variables that Affect MANET Protocol Performance”, *Proceedings of the 50th IEEE Global Telecommunications Conference (GLOBECOM)*, pp. 1237–1242, 2007. **38% acceptance ratio.**
- RC-39. S. Kurkowski, T. Camp, and W. Navidi, “Two Standards for Rigorous MANET Routing Protocol Evaluation”, *Proceedings of the 3rd IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)*, pp. 256–266, 2006. **24.8% acceptance ratio.**
- RC-40. J. Powell and T. Camp, “Improving Location Services with Prediction”, *Proceedings of the International Conference on Wireless Networks (ICWN ’06)*, pp. 153–159, 2006.
- RC-41. S. Kurkowski, T. Camp, N. Mushell, and M. Colagrosso, “A Visualization and Analysis Tool for NS-2 Wireless Simulations: iNSpect”, *Proceedings of the 13th IEEE International Symposium on Modeling, Analysis, and Simulation of Computer and Telecommunication Systems (MASCOTS)*, pp. 503–506, 2005.

**REFEREED CONFERENCE PUBLICATIONS (students underlined) cont.:**

- RC-42. N. Bauer, M. Colagrosso, and T. Camp, “An Agile Approach to Distributed Information Dissemination in Mobile Ad Hoc Networks”, *Proceedings of the 6th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM)*, pp. 131–141, 2005. Accepted as an extended paper (i.e., **top 10%** of the papers submitted were accepted as extended papers).
- RC-43. X. Luo, T. Camp, and W. Navidi, “Predictive Methods for Location Services in Mobile Ad Hoc Networks”, *Proceedings of the 5th IEEE International Workshop on Algorithms for Wireless, Mobile, Ad Hoc and Sensor Networks (WMAN)*, pp. 246–251, 2005.
- RC-44. J. Vashishtha, T. Camp, and A. Sinha, “A Smart Utilization MAC (SU-MAC) Protocol with Power Control for Ad-Hoc Wireless Networks”, *Proceedings of the Performance, Quality of Service, and Control of Next-Generation Communication and Sensor Networks*, vol. 6011, 10 pages, 2005.
- RC-45. P. Yao, E. Krohne, and T. Camp, “Performance Comparison of Geocast Routing Protocols for a MANET”, *Proceedings of the 13th IEEE International Conference on Computer Communications and Networks (IC3N '04)*, pp. 213–220, 2004. **40% acceptance ratio.**
- RC-46. M. Colagrosso, N. Enochs, and T. Camp, “Improvements to Location-Aided Routing through Directional Count Restrictions”, *Proceedings of the International Conference on Wireless Networks (ICWN '04)*, pp. 924–929, 2004. **34% acceptance ratio.**
- RC-47. P. Yao, E. Krohne, and T. Camp, “Evaluation of Geocasting Protocols for a Mobile Ad Hoc Network”, *Proceedings of the Grace Hopper Celebration (GHC '04)*, CD proceedings (6 pages), 2004.
- RC-48. J. Boleng and T. Camp, “Adaptive Location Aided Mobile Ad Hoc Network Routing”, *Proceedings of the 23rd IEEE International Performance, Computing, and Communications Conference (IPCCC)*, pp. 423–432, 2004. **28% acceptance ratio.**
- RC-49. W. Navidi and T. Camp, “Predicting Node Location in a PCS Network”, *Proceedings of the 23rd IEEE International Performance, Computing, and Communications Conference (IPCCC)*, pp. 165–170, 2004.
- RC-50. X. Jiang and T. Camp, “An Information Dissemination Protocol for an Ad Hoc Network”, *Proceedings of the 23rd IEEE International Performance, Computing, and Communications Conference (IPCCC)*, pp. 337–345, 2004. **28% acceptance ratio.**
- RC-51. W. Navidi, T. Camp, and N. Bauer, “Improving the Accuracy of Random Way-point Simulations Through Steady-State Initialization”, *Proceedings of the 15th International Conference on Modeling and Simulation (MS)*, pp. 319–326, March 2004.
- RC-52. B. Moskal, L. King, K. Miller, and T. Camp, “Preparing to Teach Computer Ethics: Results from the DOLCE Project”, *Proceedings of the 2003 Annual Meeting of the American Society for Engineering Education (ASEE)*, 13 pages, 2003.
- RC-53. B. Williams and T. Camp “Comparison of Broadcasting Techniques for Mobile Ad Hoc Networks”, *Proceedings of the ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc '02)*, pp. 194–205, 2002. **16.4% acceptance ratio.**

**REFEREED CONFERENCE PUBLICATIONS (students underlined) cont.:**

- RC-54. T. Camp, J. Boleng, B. Williams, L. Wilcox, and W. Navidi, “Performance Comparison of Two Location Based Routing Protocols for Ad Hoc Networks”, *Proceedings of the 21st Annual Joint Conference of the IEEE Computer and Communications Societies (Infocom '02)*, pp. 1678–1687, 2002. **20.5% acceptance ratio.**
- RC-55. T. Camp, J. Boleng, and L. Wilcox, “Location Information Services in Mobile Ad Hoc Networks”, *Proceedings of the IEEE International Conference on Communications (ICC '02)*, pp. 3318–3324, 2002. **40.8% acceptance ratio.**
- RC-56. J. Boleng, W. Navidi, and T. Camp, “Metrics to Enable Adaptive Protocols for Mobile Ad Hoc Networks” *The 2002 International Conference on Wireless Networks (ICWN '02)*, pp. 293–298, 2002.
- RC-57. N. K. Guba and T. Camp, “Recent Work on GLS: a Location Service for an Ad Hoc Network”, *Proceedings of the Grace Hopper Celebration (GHC '02)*, CD proceedings (5 pages), 2002.
- RC-58. X. Jiang and T. Camp, “Review of Geocasting Protocols for a Mobile Ad Hoc Network”, *Proceedings of the Grace Hopper Celebration (GHC '02)*, CD proceedings (6 pages), 2002.
- RC-59. J. Boleng, T. Camp, and V. Tolety. “Mesh-based Geocast Routing Protocols in an Ad Hoc Network,” *Proceedings of the 15th IEEE International Parallel and Distributed Processing Symposium on Issues in Wireless Networks and Mobile Computing (IPDPS 2001)*, pp. 184–193, 2001.
- RC-60. B. Williams, J. Boleng, and T. Camp, “Geocast Communications in an Ad Hoc Network”, *Proceedings of the 11th IEEE Local and Metropolitan Area Networks Workshop (LANMAN 2001)*, pp. 94–97, 2001.
- RC-61. J. Boleng, B. Williams, T. Camp, L. Wilcox, and W. Navidi, “Performance of Location-Based Routing Protocols for an Ad Hoc Network”, *Proceedings of the 11th IEEE Local and Metropolitan Area Networks Workshop (LANMAN 2001)*, pp. 98–101, 2001.
- RC-62. T. Camp, J. Lusth, J. Matocha, and C. Perkins. “Reduced Cell Switching in a Mobile Computing Environment,” *Proceedings of the Sixth Annual ACM International Conference on Mobile Computing and Networking (MobiCom 2000)*, pp. 143–154, 2000. **12.3% acceptance ratio.**
- RC-63. A. Kumar and T. Camp. “A New Matching Algorithm for Managing Location Information in Mobile Computing,” *Proceedings of the 19th IEEE International Performance, Computing, and Communications Conference (IPCCC 2000)*, pp. 231–239, Feb. 2000.
- RC-64. Y. Sun, T. Camp, and I. Terekhov, “Multicast Communication for Mobile Nodes Based on an Efficient Location Management Technique,” *Proceedings of the International Workshop on Group Communication (IWGC 1999)*, Fukushima, Japan, pp. 10–16, Sept. 1999.
- RC-65. T. Camp and D. Gurer, “Women in Computer Science: Where Have We Been and Where are We Going?,” *Proceedings of the 1999 International Symposium on Technology and Society (ISTAS '99)*, pp. 242–244, 1999.
- RC-66. D. Gurer and T. Camp, “Women and Technology: Why are we Losing so Many Women in Computer Science?,” *Proceedings of Women Transforming the Public*, 1999.
- RC-67. J. Matocha, T. Camp, and R. Hooper, “Extended Analogy: An Alternative Lecture Method,” *Proceedings of the 29th ACM SIGCSE Technical Symposium on Computer Science Education*, pp. 262–266, Mar. 1998. **36% acceptance ratio.**

**REFEREED CONFERENCE PUBLICATIONS (students underlined) cont.:**

- RC-68. T. Camp, “Survey Says! Results from the Incredible Shrinking Pipeline,” *Proceedings of the ACM Policy Conference*, on-line proceedings, 1998.
- RC-69. S. Tomic and T. Camp, “I want it all and I want it now! Data Retrieval in a Distributed Multimedia Database System,” *Proceedings of the The 35th ACM Annual Southeast Conference*, pp. 251–256, Apr. 1997.
- RC-70. B. Bynum and T. Camp, “After you, Alfonso: A Mutual Exclusion Toolkit,” *Proceedings of the 27th SIGCSE Technical Symposium on Computer Science Education*, pp. 170–174, Feb. 1996. **33% acceptance ratio.**
- RC-71. T. Li and T. Camp, “The Web, Browsers and Internationalization,” *Proceedings of the 34th ACM Southeast Conference*, pp. 43–48, Mar. 1996.
- RC-72. T. Camp and G. Oberhauser, “Microkernels: A Submodule for a Traditional Operating Systems Course,” *Proceedings of the 26th ACM SIGCSE Technical Symposium on Computer Science Education*, pp. 154–158, Mar. 1995. **33% acceptance ratio.**
- RC-73. A. Parrish, D. Cordes, S. Vrbsky, T. Camp, C. Fortner, and G. Scales, “Assessing Computing Knowledge Among College Students,” *Proceedings of the 1995 National Educational Computing Conference (NECC '95)*, pp. 52–59, 1995.)
- RC-74. P. Kearns, T. Camp, and M. Ahuja, “An Implementation of Flush Channels Based on a Verification Methodology,” *Proceedings of the 12th IEEE International Conf. on Distributed Computing Systems (ICDCS '92)*, pp. 336–343, June 1992. **28% acceptance ratio.**

**OTHER/INVITED CONTRIBUTIONS:**

- I-1. Sami Rollins, Alark Joshi, Amruth Kumar, Stan Kurkovsky and Tracy Camp, “BoF: Best Practices for Designing and Implementing NSF S-STEM Scholarship Projects”, *ACM SIGCSE*, 2 pages, 2021.
- I-2. C. Lewis, T. Camp, T. Horton, D. Reed, and B. Tamer, “Panel: How Student Surveys Drive Change: Using the Data Buddies Department Report from the Computing Research Association”, *ACM SIGCSE*, 2 pages, 2021.
- I-3. C. Lewis, N. Amato, T. Camp, M. Hall, and S. Sanders, “Workshop: Developing Department Plans for Broadening Participation in Computing for NSF Grants”, *ACM SIGCSE*, 2 pages, 2020.
- I-4. A. Brush, T. Camp, S. Castañeda, A. Danyluk, and Y. Wu “CRA-WP Research Mentoring at the 2019 Grace Hopper Celebration of Women in Computing: Going Strong and Growing”, *CRA Newsletter*, 2020.
- I-5. E. Roberts, T. Camp, D. Culler, C. Isbell, and J. Tims, “Panel: Rising CS Enrollments: Meeting the Challenges”, *ACM SIGCSE*, 2 pages, 2018.
- I-6. A. Danyluk and T. Camp, “CRA-W Continues Research Mentoring at the 2016 Grace Hopper Celebration of Women in Computing”, *CRA Newsletter*, 2017.
- I-7. T. Camp, W. Richard Adrion, B. Bizot, S. Davidson, M. Hall, S. Hambrusch, E. Walker, S. Zweben, “Generation CS, CS Undergraduate Enrollments Surge Since 2006”, *CRA Report*, 2017. <https://cra.org/data/generation-cs/>.
- I-8. T. Camp, E. Schanzer, J. Goode, O. Astrachan, and E. Campos, “Panel: CSPdWeek: A Scalable Model for Preparing Teachers for CS for All, ”, *ACM SIGCSE*, 2 pages, 2017.
- I-9. T. Camp, S. Zweben, J. Stout, and D. Buell, “Panel: Booming Enrollments”, *ACM SIGCSE*, 2 pages, 2016.

**OTHER/INVITED CONTRIBUTIONS cont.:**

- I-10. T. Camp, "CRA-W Mentoring at the 2015 Grace Hopper Celebration of Women in Computing", *CRA Newsletter*, 2016.
- I-11. T. Camp, S. Zweben, E. Walker, and L. Barker, "Panel: Booming Enrollments: Good Times?", *ACM SIGCSE*, 2 pages, 2015.
- I-12. T. Camp, F. Berman, C. Brodley, and J. Hirschberg, "Academic Leadership: The three s\*\*\* (Screw-ups, Surprises, and Successes)", *Grace Hopper Celebration*, 3 pages, 2015.
- I-13. T. Camp and J. Stout, "It Takes a Village: A Community-wide Model for Program Assessment," *WEPAN Change Leader Forum*, 2 pages, 2015.
- I-14. L. Barker, T. Camp, E. Walker, and S. Zweben, "Booming Enrollments: What is the Impact?", *CRA Newsletter*, 2015.
- I-15. J. Stout and T. Camp, "Now what? Action items from social science research to bridge the gender gap in computing research", *ACM SIGCAS Computers and Society - Special Issue on Women in Computing*, 3 pages, 2014.
- I-16. K. McKinley and T. Camp, "Diversity Drives Innovation", *Computing Research News*, vol. 25, no. 5, 2013.
- I-17. T. Camp, "CONNECTIONs", *Anita's Quilt*, October 2012.
- I-18. M. Ruben and T. Camp, "SkinTrack: Wireless Embedded System Monitors Lift-Served Back- country Access Gates", *The Avalanche Review*, vol. 30, no. 2, pp. 12–13, 2011.
- I-19. T. Camp and J. Gilbert, Broader Impacts - Should You Care?, *Computing Research News*, vol. 22, no. 5, 2010.
- I-20. T. Camp and W. Heinzelman, "Networking Networking Women", *Computing Research News*, pp. 2-3, November 2007.
- I-21. D. Gurer and T. Camp, "An ACM-W Literature Review on Women in Computing", *Inroads: ACM SIGCSE Journal*, vol. 34, no. 2, pp. 121–127, June 2002.
- I-22. T. Camp, "Women in Computer Sciences: Reversing the Trend", *Syllabus*, vol. 15, no. 1, pp. 24–28, Aug. 2001.
- I-23. V. Davies and T. Camp, "Where Have Women Gone and Will They Be Returning", *Computer Professionals for Social Responsibility Newsletter*, vol. 18, no. 1, Winter 2000.
- I-24. D. Gurer, T. Camp, and B. Simons, "Increasing the Number of Women in Computing: Goals and Activities of ACM-W," in *The Resource Book of the Summit on Women in Engineering*, pp. 1–4, National Academy of Engineering, May 17–18, 1999.
- I-25. T. Camp, "A Decade in the University Pipeline," *Computing Research News*, vol. 9, no. 3, pp. 2–3, May 1997.
- I-26. T. Camp, "Women and Computers: The Past to the Future," *Proceedings of the ACM Computer Science Conference*, pp. 154–155, 1996.
- I-27. T. Camp, "Diversity Recruiting," *Communications of the ACM*, vol. 38, no. 1, p. 61, 1995.

## HONORS AND AWARDS:

- Several Keynote/Plenary/Distinguished talks. See list under Invited Presentations.
- Test of Time Award, ACM SIGCSE, 2021.
- Grand Prize Recipient of the NCWIT Extension Services Transformation (NEXT) Award, 2019.
- CSE Distinguished Alumni Award from Michigan State University, 2018.
- Stand Up For STEM Award, from the Colorado Technology Association, 2017.
- MLK Recognition Award, Colorado School of Mines, 2016.
- 2016 Most Popular Paper, Communications and Network, 2016. (5,518 views; 2,461 downloads)
- Participated on the National Academy Committee on Growth in Undergraduate Computer Science Enrollments, 2015-2018.
- Senior Excellent in Research Award, Colorado School of Mines, 2015.
- Distinguished Lecturer, Colorado School of Mines, 2015-16.
- University of Amsterdam, Ph.D. Defense, 2014.
- Participated in the NSF Future Directions in Computing Education Workshop, 2014.
- Invited to Microsoft’s Research Summit, 2014.
- ACM membership elevated to ACM Fellow level, 2013.
- Computing Research Association’s Computing Community Consortium, Computing Research in Action, SmartGeo at Colorado School of Mines, <http://www.youtube.com/watch?v=oWJvGoISK5s>, August 2013.
- Ph.D. student wins NSF Judge’s Award, NSF IGERT Video and Poster Competition, Wireless Sensor Network Technology for Avalanche Monitoring, June 2013.
- Invited to the Advisory Board for “The Programmers” (which are three documentaries being developed), June 2013.
- Invited to join Steering Committee for ACM’s Workshop on Mobile Opportunistic Networking (MobiOpp), 2011.
- Invited to Co-Chair CRA’s Committee on the Status of Women in Computing Research (CRA-W), 2011. Invited to join CRA-W Steering Committee, 2009. Invited to join CRA-W Board, 2007.
- Distinguished Visitor, University of Bonn, Germany, July 2010.
- Co-Chair of the NSF CISE Broader Impact Summit, June 2010.
- Computer Science Outstanding Undergraduate Faculty Award, May 2010.
- Received \$44,000 in donations from Microsoft Research, Google, LGS Innovations, Cisco, Anita Borg Institute, Ball Aerospace, Fast Enterprises, Intel, ReadyTalk, NREL, NCAR, ArcelorMittal, and Kerpoof Disney to support the 2nd Colorado Celebration of Women in Computing (CCWIC), 2010.
- Received \$23,800 in donation from Microsoft Research, HP Labs, and SIGMOBILE to support Networking Networking Women (N<sup>2</sup>Women), 2007-2010.



### HONORS AND AWARDS cont.:

- Received \$37,000 in donations from Google, Sun Microsystems, Microsoft Research, LGS Innovations, Accenture, VMWare, Cisco, Ball Aerospace, Anita Borg Institute, NCWIT, HP, and NCAR to support Colorado Celebration of Women in Computing (CCWIC), 2008.
- Received Board of Trustees Outstanding Faculty Award at the Colorado School of Mines, in December 2007; this award was only given five times between 1998-2007.
- Undergraduate research student (C. Walsh) won a travel award to present his research in the Student Research Competition at the ACM International Conference on Mobile Computing and Networking (MobiCom), 2007.
- Invited to co-lead the Models, Testbeds, and Standards Group at the NSF Mobility in Wireless Networks Workshop, 2007.
- Selected as an ACM Distinguished Scientist (October 2006). Only 24 people (11 in industry and 13 in academics) were selected to be an ACM Distinguished Scientist in 2006.
- Two undergraduate research students (E. Krohne and J. Powell) won travel awards to present their research in the Student Research Competition at the ACM International Conference on Mobile Computing and Networking (MobiCom), 2006.
- Invited to be an ACM Distinguished Lecturer (August 2006).
- Awarded IEEE Senior Member status (July 2006).
- Received \$3,000 in donations to support the ACM-W Student Chapter at Colorado School of Mines, Google, Inc. and Avanade, Inc., 2006.
- Awarded a Fulbright Scholarship to New Zealand, 2006. (The acceptance rate of Fulbright proposals for New Zealand is typically under 6%.) Offered an Erskine Fellowship, University of Canterbury, 2005. (Award not accepted because of the Fulbright Scholarship received.)
- Elected Treasurer of the SIGMOBILE Executive Committee by the SIGMOBILE Community, 2005-2009. (SIGMOBILE is the ACM Special Interest Group on Mobile Computing, an international research association.)
- Invited and attended the U.S. Frontiers of Engineering Symposium, organized by the National Academy of Engineering, 2005. The National Academy of Engineering community nominated 380 people, of which 75 were invited to attend the symposium.
- Invited and attended a National Science Foundation and European Science Foundation workshop on Smart Structures and Advanced Sensor Technologies, Greece, 2005.
- Received \$36,000 in donations from ACM Council, SIGCOMM, SIGDA, SIGCSE, and ACM-W to distribute the special issue on “Women and Computers”, *Inroads: ACM SIGCSE journal*, vol. 34, no. 2, June 2002. T. Camp is the Guest Editor. In total, 22,503 copies have been distributed worldwide.
- ACM-W (ACM’s Committee on Women in Computing) Co-Chair, 1998-2002.
- Received ASA Outstanding Faculty Award, Colorado School of Mines, 1998-99.
- Received National Science Foundation CAREER Award, 1997.
- Received Patricia Roberts Harris Fellowship, The College of William & Mary, 1992.
- Received Graduate Office Fellowship, Michigan State University, 1988.

#### **SOFTWARE PACKAGES DISTRIBUTED:**

- S-1. **RealMobGen Mobility Model.** For further details, see Dr. Camp's article published in the *ACM's Mobile Computing and Communications Review*, 2008.
- S-2. **The iNSpect Visualization Tool.** For further details, see Dr. Camp's article published in the *Proceedings of the IEEE International Symposium on Modeling, Analysis, and Simulation of Computer and Telecommunication Systems (MASCOTS)*, 2005.
- S-3. **Legend Traversal Protocols.** For further details, see Dr. Camp's article published in the *Proceedings of the IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM)*, 2005.
- S-4. **Proactive Disjoint Multipath Routing Protocol.** For further details, see "An Evaluation of Multiple Path Routing and its Impact on Quality of Service in Mobile Ad Hoc Networks", M.S. Thesis, Colorado School of Mines, 2005.
- S-5. **Steady State Random Waypoint Mobility Model.** For further details, see Dr. Camp's article published in the *IEEE Transactions on Mobile Computing (TMC)*, 2004.
- S-6. **Feedback Protocol.** For further details, see Dr. Camp's article published in the *Proceedings of the 23rd IEEE International Performance, Computing, and Communications Conference (IPCCC)*, 2004.
- S-7. **Geocast Routing Protocols.** For further details, see Dr. Camp's article published in the *Proceedings of the 13th IEEE International Conference on Computer Communications and Networks (IC3N)*, 2004.
- S-8. **Adaptive Mesh Based Geocast Protocol.** For further details, see Dr. Camp's article published in *Journal of Parallel and Distributed Computing (JPDC): Special Issue on Routing in Mobile and Wireless Ad Hoc Networks*, 2003.
- S-9. **Mobility Models.** For further details, see Dr. Camp's article published in the *Wireless Communications & Mobile Computing (WCMC): Special issue on Mobile Ad Hoc Networking: Research, Trends and Applications*, 2002.
- S-10. **Location Based Routing Protocols.** For further details, see Dr. Camp's article published in the *Proceedings of the 21st Annual Joint Conference of the IEEE Computer and Communications Societies (INFOCOM)*, 2002.
- S-11. **Broadcast Protocols.** For further details, see Dr. Camp's article published in the *Proceedings of the ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)*, 2002.
- S-12. **Location Service Protocols.** For further details, see Dr. Camp's article published in *Proceedings of the IEEE International Conference on Communications (ICC)*, 2002.
- S-13. **Mesh-Based Geocast Routing Protocol.** For further details, see Dr. Camp's article published in *Proceedings of the 15th IEEE International Parallel and Distributed Processing Symposium on Issues in Wireless Networks and Mobile Computing (IPDPS)*, 2001.
- S-14. **The BACI Toolkit.** For further details, see Dr. Camp's article published in the *Proceedings of the 27th SIGCSE Technical Symposium on CS Education*, 1996.

## INVITED PRESENTATIONS:

### – Keynote/Plenary:

*College of William and Mary, Graduation Speaker - CS*, Williamsburg, VA, 2019.  
*12th IEEE Int'l Conf. on Computing, Networking and Comm.*, Maui, HI, 2018.  
*All India Celebrations for Women in Computing*, New Delhi, India, 2017.  
*JeffCo International Women's Day*, Golden, Colorado, 2017.  
*CRA Snowbird*, 2016  
*29th Int'l Conf. on Computers Apps. in Industry and Eng. (CAINE 2016)*, 2016  
*Mines Distinguished Lecture*, Golden, Colorado, 2016.  
*FIU Distinguished Lecture Series*, Miami, Florida, 2016.  
*9th IEEE Int'l Conf. on Computing, Networking and Comm.*, Anaheim, CA, 2015.  
*Women in Cybersecurity*, Atlanta, GA, 2015.  
*30th Anniversary of the Birth of Computer Science in Sweden*, Linköping, 2013.  
*National Conference on Communications*, New Delhi, India, 2013.  
*Southeast Women in Computing Celebration*, Alabama, 2013.  
*Boeing*, Seattle, Washington, 2012.  
*TRIWIC: Women in Computing*, 2011  
*7th Int'l Conf. on Intelligent Sensors, Sensor Networks and Info. Processing*, 2011  
*International Conference on Simulation Tools and Techniques (SIMUTools)*, 2010  
*Ohio Celebration of Women in Computing (OCWIC)*, 2009  
*STARS Celebration*, 2009  
*Australian Women in IT Conference*, 2006  
*Annual Consortium for Computing in Small Colleges Northeastern Conference*, 1999  
*Annual Midwest Computer Conference*, 1997

### – ACM or CRA-W Distinguished Lecturer (Examples):

Center of Innovation in Telecom and Integration, INSA de Lyon, France, 2013  
Duke University, 2016  
Indian Institute of Technology, New Delhi, India, 2013  
Laboratory of Information, Networking, and Comm. Sciences in Paris, France, 2013  
Michigan State University, 2011  
Northeastern University, 2013  
Rochester Institute of Technology, New York, 2013  
Texas A&M, 2014  
Universitat Politecnica de Catalunya, Barcelona, Spain, 2013 (two talks)  
University of Applied Sciences of Southern Switzerland, 2013  
University of Bonn (Germany), 2010 (two talks)  
University of Colorado, Boulder, 2012  
University of Hawaii, Manoa, 2005, 2013  
University of Hawaii, Hilo, 2013  
University of Lugano, Switzerland, 2013  
University of Osnabrueck, Germany, 2013  
University of Roma, Italy, 2013  
University of Toulouse in France, 2013 (two talks)

**INVITED PRESENTATIONS cont.:**

**– Invited Conference/Meeting Speaker (past 12 years):**

*ACM Education Council* (London, UK), 2018  
*ACM SIGCSE Teaching Track Faculty Workshop*, 2019, 2020  
*ACM-W Student Chapter* (Colorado School of Mines), 2013  
*CRA Board Meeting*, 2015  
*CRA Board Meeting*, 2013  
*CRA Snowbird*, 2018  
*CRA Faculty Mentoring Workshop*, 2014, 2016  
*CRA Snowbird*, 2012  
*CSTA: Computer Science Education in Colorado*, 2013  
*ECSITE Project*, Boulder, 2013  
*Google Capacity Workshop*, New York, 2016  
*Grace Hopper Celebration* 2019 (2 talks)  
*Grace Hopper Celebration* 2018 (3 talks)  
*Grace Hopper Celebration* 2017 (2 talks)  
*Grace Hopper Celebration* 2016  
*Grace Hopper Celebration* 2013 (3 talks)  
*International Technology and Engineering Educators Association (ITEEA)*, 2021  
*Microsoft Research Summit*, 2009  
*Mines Board of Trustees*, 2016  
*Mines Intensive Course Revision*, 2016  
*Mines Lunch and Learn (Piazza)*, 2014  
*National Academy Meeting*, 2016  
*NCWIT Summit*, 2019  
*NCWIT Summit*, 2018 (2 talks)  
*NCWIT Summit*, 2017  
*Newcomers*, (Grace Hopper Celebration), 2008, 2009  
*New Faculty Orientation*, 2016, 2017  
*NSF CE21 PI Meeting*, 2013, 2015  
*NSF CISE Directorate*, 2013  
*NSF Mobility in Wireless Networks Workshop*, 2007  
*NSF Program Directors*, 2014  
*NSF Reverse Site Visit*, 2012

## PROFESSIONAL SERVICE:

### Leadership Roles:

- Chair of MSCS Pathways to Computing Consortium, 2021-current
- Co-Chair, ACM SIGCSE Site Selection, 2017-current
- Chair of CRA Enrollments Committee, 2014-2017
- Hosted the National CSPdWeek in 2016, 2017, and 2019
- Re-vitalized the Front Range CSTA Chapter, 2014, which became the Colorado CSTA Chapter in 2018.
- CRA-W Co-Chair, 2011-2014.
- Symposium Co-Chair: ACM SIGCSE, 2013.
- Finance Chair: 18th Annual ACM International Conference on Mobile Computing and Networking (MobiCom), 2012.
- Program Co-Chair: ACM SIGCSE, 2012.
- Co-Founder: Rocky Mountain Celebration of Women in Computing. Events in 2008, 2010, 2012, 2014, 2016, and 2018. 2020 canceled due to COVID-19. Co-Chair for 2008 and 2010 events. Involved in fund raising for all events.
- Program Co-Chair: 2nd Workshop on Scenarios for Network Evaluation Studies, 2010.
- General Chair: Grace Hopper Celebration of Women in Computing, 2010.
- Finance Co-Chair: 16th Annual ACM International Conference on Mobile Computing and Networking (MobiCom) and 11th Annual ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), 2010.
- Program Co-Chair: Workshop on Mobile Opportunistic Networking (MobiOpp), 2010.
- Program Chair: Grace Hopper Celebration of Women in Computing, 2009.
- Program Co-Chair: Workshop on Scenarios for Network Evaluation Studies, 2009.
- Co-Conference Chair: Colorado Celebration of Women in Computing, 2008.
- Finance Co-Chair: 14th Annual ACM International Conference on Mobile Computing and Networking (MobiCom), 2008.
- Co-Chair of CRA-W's Distributed REU, 2007-2011.
- Co-Founder (& Co-Leader) of N<sup>2</sup> Women (Networking Networking Women), a community supported by ACM, IEEE, Microsoft Research, and HP Labs 2006-present. New Co-Leaders recruited in 2016.
- Member of the the Academic Alliance, National Center for Women and Information Technology (NCWIT), 2004-present.
- Co-Leader of the ACM-W Ambassador Program, 2006-2009.
- Elected ACM SIGMOBILE Treasurer and to Executive Committee, since 2005-2009.
- Chair of Academic Advisory Committee: Grace Hopper Celebration, 2007.
- Co-Host of NSF NOSS PI and Informational Meeting (over 140 attendees), 2004.
- Co-Chair of ACM's Committee on Women in Computing, 1998-2002.
- Host of Developing On/Off-Line Computer Ethics Workshop, May 2002.
- Chair of Paper Committee: Grace Hopper Celebration, 2002.
- Host of Developing On/Off-Line Computer Ethics Workshop, May 2001.
- Co-Chair of Paper Committee: Grace Hopper Celebration, 2000.
- Host of Developing On/Off-Line Computer Ethics Workshop, June 2000.
- Steering Committee Member and Chair of Scholarships Committee GHC, 1997

**PROFESSIONAL SERVICE cont.:**

**Advisory Roles:**

- Anita Borg Academic Advisory Council, 2015–2020
- Anita Borg Technical Leadership Award Committee, 2006–2009
- Anita Borg GHC Scholarship Committee, 2012–2017
- ACM Distinguished Speaker’s Program, 2013–2019.
- ACM Education Board, 2015–2020.
- ACM Gender Task Force, 2007–2008
- CloudBank Project Advisory Board, 2020-2021
- Colorado Computing Task Force 2015–2017
- CRA Board, 2012–2016
- CRA Survey Committee, 2016–2017
- Grace Hopper Celebration Academic Advisory Committee, 2006
- Grace Hopper Scholars Program at the Community College of Baltimore County, 2002-2003.
- Holy Cross, Computer Science Program Review, 2013
- IEEE Fellow Committee, 2015–2018
- IEEE CS TCHPC Award Committee 2016–2018
- Littleton Public Schools Advisory Committee 2020-21
- Tapia Celebration of Diversity, Scholarship Committee, 2014

**Editorial Boards/Steering Committees:**

- Mobile Opportunistic Networking (MobiOpp), since 2011
- Pervasive and Mobile Computing, since 2007
- IEEE Transactions on Mobile Computing, 2008–2011
- Computer Communications, 2009–2011
- Computer Science Community, Engineering Pathways, since 2007.
- MANET (Mobile Ad hoc NETworking) Area Editor, CRAWDAD, 2006–2008.
- Ad Hoc Networks Journal, 2004–2008.
- Journal of Information Technology Impact, Jan. 1998-2002.

**Textbook Reviewer:**

- Addison-Wesley
- DC Heath
- John Wiley & Sons, Inc.
- Prentice Hall

**PROFESSIONAL SERVICE cont.:**

**Conference Program Committee Member:**

- ACM International Conference on Mobile Computing and Networking (MobiCom)
- ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)
- ACM International Workshop on Mobile Opportunistic Networks (MobiOpp)
- ACM Southeast Conference
- ACM Symposium on Applied Computing
- ACM Workshop on Vehicular Ad-hoc Networks (VANET)
- Australasian Telecommunication Networks and Applications Conference (ATNAC)
- ICST International Conference on Body Area Networks (BodyNets)
- ICST International Conference on Simulation Tools and Techniques (SIMUTools)
- IEEE International Conference on Communications (ICC)
- IEEE International Conference on Computer Communications and Networks (ICCCN)
- IEEE International Conference on Network Protocols (ICNP)
- IEEE International Conference on Distributed Computing Systems (ICDCS)
- IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS)
- IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)
- IEEE International Conference on Parallel and Distributed Systems (ICPADS)
- IEEE International Conference on Sensor, Mesh, and Ad Hoc Communications and Networks
- IEEE International Conference on Sensing, Communication, and Networking (SECON)
- IEEE International Telecommunication Networks and Applications Conference (ITNAC)
- IEEE International Workshop on Heterogeneous Wireless Sensor Networks (HWISE)
- IEEE International Workshop on Mobile Vehicular Networks (MoVeNet)
- IEEE Wireless Communications and Networking Conference (WCNC)
- IEEE Workshop on Autonomic and Opportunistic Communications (AOC)
- IEEE Conference on Local Computer Networks (LCN)
- International Conference on AD-HOC Networks & Wireless (AdHocNow!)
- International Conference on Computational Thinking Education (CTE)
- International Conference on Distributed Computing and Networking (ICDCN)
- International Conference on Mobile Ad-hoc and Sensor Networks (MSN)
- International Conference on Research in Equity and Sustained Participation in Engineering, Computing, and Technology (RESPECT)
- International Conference on Wireless Algorithms, Systems, and Applications (WASA)
- International Workshop on Pervasive Wireless Networking (PWN)
- National Education Computing Conference (NECC)

**PROFESSIONAL SERVICE cont.:**

**Grant Proposal Reviewer:**

- Fulbright National Screening Committee
- Israel Science Foundation
- Louisiana Department of Education
- Natural Sciences and Engineering, Research Council of Canada (NSERC)
- NSF Advanced Networking Infrastructure and Research (ANIR)
- NSF Career Panel
- NSF Computing Education for the 21st Century (CE21)
- NSF Division of Computer and Network Systems (CNS)
- NSF Instrumentation and Laboratory Improvement (ILI)
- NSF Networking Technology and Systems (NeTS)
- NSF Networking and Communications Research (NCR)
- NSF Research Planning Grants (RPG)
- NSF Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM)
- University of California MICRO Program

**Journal Paper Reviewer:**

- ACM Journal on Educational Resources in Computing
- ACM Mobile Networks and Applications
- ACM Mobile Computing and Communications Review
- ACM Transactions on Internet Technologies
- ACM Transactions on Modeling and Computer Simulation
- British Computer Society: Computer Journal
- Elsevier Ad Hoc Networks
- Elsevier Computer Communications
- Elsevier Computer Networks
- Elsevier Journal of Parallel and Distributed Computing
- Elsevier Journal of Systems and Software
- Elsevier Mathematical and Computer Modelling Journal
- EURASIP Journal on Wireless Communications and Networking
- IEEE Communications Letters
- IEEE Communications Magazine
- IEEE Journal on Selected Areas in Communications
- IEEE Network Magazine
- IEEE/ACM Transactions on Networking
- IEEE Transactions on Mobile Computing
- IEEE Transactions on Parallel and Distributed Systems
- IEEE Transactions on Sensor Networks
- IEEE Transactions on Software Engineering
- IEEE Transactions on Vehicular Technology
- IEEE Transactions on Wireless Communications
- Journal of Communications and Networks
- Journal of Women and Minorities in Science and Engineering
- Wiley International Journal of Communication Systems
- Wiley Wireless Communications & Mobile Computing



**PROFESSIONAL SERVICE cont.:**

**Conference Paper Reviewer** (other than PC roles):

- ACM International Conference on Mobile Computing and Networking (MobiCom)
- ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)
- ACM International Symposium on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM)
- ACM Southeast Conference
- IEEE Joint Conference of the Computer and Communications Societies (INFOCOM)
- IEEE Global Communications Conference (Globecom)
- IEEE International Conference on Communications (ICC)
- IEEE International Conference on Distributed Computing Systems (ICDCS)
- IEEE International Region 10 Conference (Tencon)
- IEEE Int'l Workshop on Alg. for Wireless, Mobile, Ad Hoc and Sensor Nets (WMAN)
- IEEE International Symposium on Modeling, Analysis, and Simulation of Computer and Telecommunication Systems (MASCOTS)
- IFIP Networking Conference
- International Symposium on Wireless Communication Systems
- Joint Conference on Information Sciences
- Military Communications Conference (MILCOM)
- National Education Computing Conference (NECC)
- Winter Simulation Conference (WSC)

**UNIVERSITY SERVICE:**

**Leadership Roles at the Colorado School of Mines:**

- Founding Department Head of CS@Mines, July 2016. Launched several programs to make CS@Mines distinctive in degree programs (CS+X, interdisciplinary minors), diversity (PATHS), research (Distinguished Speakers Program), outreach (CS@Mines On Tour, Annual High School Programming Competition, STEmpact), and student experience (Interrupt, Computing Innovation Fair, Funch or Fike).
- Founder of Computing-Mines Affiliates Partnership Program (C-MAPP), August 2014  
over \$500K has been raised via this program thus far
- Founder of Discovering Technology, August 2013  
approx. 250 3rd-6th grade girls participate each semester
- Interim Department Head of Mathematical and Computer Sciences (2010-2011)
- Director of the Center for Automation, Robotics, and Distributed Intelligence, 2012 – present
- Co-Director of SmartGeo, 2008 – 2016
- Coordinator of the Mines Academic Female Faculty Meetings, 2001 – present

**UNIVERSITY SERVICE cont.:**

**Service at the Colorado School of Mines:**

- Member of Total Compensation Benchmark Study (2017-18)
- Member of Women at Mines Committee (2015-2019)
- Member of Institutional Award Committee (2016-2018)
- Member of Research Task Force (2015-17)
- Member of Mentoring Committee (2014-16)
- Member of Applied Mathematics and Statistics Department Head Search (2011-12)
- Member of University Promotion and Tenure Committee (2009-10)
- Member of CSM's Vision Committee (2009-10)
- Member of Presidential Search Committee (2000-01)
- Member of Graduate Council (Spring 2003, 2004-05)
- Member of Scholastic Awards Committee (2002–2005)
- Member of Faculty Search for Mechanical Engineering, Thermosciences (2002-03)
- Member of Faculty Search for Clare Booth Luth Faculty Member (2004-05)
- Member of Faculty Search for Metallurgical and Materials Engineering (2006-07)
- Member of Diversity Committee (2004-05)
- Member of Title IX Compliance Committee (2004-05)
- Member of Compensation Committee (2004-05)
- Member of Committee on Committees (2004-05)

**DEPARTMENTAL SERVICE:**

**Leadership Roles at the Colorado School of Mines:**

- Chair of Graduate Committee (Spring 2004, 2004-05, 2013-2016)
- Chair of Search Committee for Computer Science Faculty (2002-03, 2013-14)
- Interim Department Head, 2010-11.
- Co-Chair of Search Committee for EE/CS Faculty (2008-09)
- Chair of Undergraduate Committee (Spring 2003)
- Faculty co-advisor for MCS Graduate Women's Forum (2004-2005)
- ACM Faculty Advisor (1998-99)
- Course Coordinator for CSCI 261 (2006–2008)

**Service at the Colorado School of Mines:**

- Member of Search Committee for Computer Science Faculty (1998-99, 2001-02, 2002-03, 2003-04, 2004-05, 2006-07)
- Mentor to M. Colagrosso (2003–2008), J. Liu (2004–2007), and Q. Han (since 2005)
- Member of Graduate Committee (2001-02, Spring 2004, 2004-05, 2009-10)
- Member of Undergraduate Committee (1998-99, 2002-03)
- Member of Ph.D. Qualifying Exam Committee (1999, 2000, 2001, 2003, 2004, 2005)
- Member of Systems Support (2001-02, 2002-03)
- Member of Space Committee (2001)

**DEPARTMENTAL SERVICE cont.:**

**Leadership Roles at the University of Alabama:**

- Chair of Colloquium Committee (1993-94, 1994-95)
- Chair of Graduate Recruiting Committee (1998)
- Chair of Recycling Committee (1994 – 1998)
- Chair of Alumni Advisory Committee (1993-94, 1994-95)
- ACM Faculty Advisor (1993-94)
- Chair of Graduate Student Orientation (1995-96)
- Chair of Work Load Committee (1995-96)

**Service at the University of Alabama:**

- Member of Equipment Committee (1993-94, 1994-95, 1995-96)
- Member of Space Committee (1994-95)
- Member of Search Committee for Faculty (1993-94)
- Member of Graduate Committee (1993-94)
- Hosted Jae Kwang Lee from Han Nam University, Korea (1997-98)

**MEMBERSHIPS IN PROFESSIONAL SOCIETIES:**

- CRA's Committee on the Status of Women in Computing Research (CRA-W), since 2007.
- Academic Alliance, National Center for Women and Information Technology, since 2004.
- ACM's Committee on Women in Computing (ACM-W), invited member since Oct. 1996.
- Upsilon Pi Epsilon, invited member 1993–1998.
- Institute for Electronics and Electrical Engineers (IEEE), since '90; senior member in 2006; Fellow 2016.
- Association for Computing Machinery (ACM), since 1989; distinguished scientist 2006; Fellow 2013.

**STUDENTS SUPERVISED:**

**Ph.D. Students:**

- Jason Hussey (current).
- Warren Watkinson (current, admitted to candidacy).
- Wendy Fisher (2017).
- Thyago Mota (2016).
- James Maher (2015).
- Marc Rubin (2014).
- Doug Hakkarinen (2013, co-advise with Jeffrey Chen).
- Kerri Stone (2013).
- Aarti Munjal (2012).
- Xinhua Yang (2010).
- Stuart Kurkowski (2006).
- Jeff Boleng (2002).
- Jeff Matocha (1998).

**M.S. Thesis Students:**

- B. Jackson (2019)
- T. Johnson (2017)
- A. Uligere Narasimhamurth (2016)
- S. Kennicutt (2016)
- B. Rodriguez (2015)
- S. Gonzalez (2015)
- K. Robison (2015, co-advise with Cyndi Rader).
- L. Aberle (2014, co-advise with Katie Siek, University of Indiana)
- T. Brown (2014, co-advise with Cyndi Rader).
- J. Langewisch (2013, co-advise with Cyndi Rader).
- C. Walsh (2011).
- E. Krohne (2008).
- C. Metcalf (2007).
- G. Gerou (2005).
- N. Bauer (2004, co-advise with Mike Colagrosso).
- X. Luo (2004, co-advise with William Navidi).
- B. Williams (2002) and R. Spinhirne (2002, co-advise with Tyrone Vincent).
- V. Davies (2001) and Y. Liu (2001).
- V. Tolety (2000).
- Y. Sun (1999).
- I. Terekhov (1998).
- U. Boddeti (1997) and S. Burdette (1997).

**STUDENTS SUPERVISED cont.:**

**M.S. Project Students (6 credit hours):**

- A. Pollock (2021)
- J. Granley (2020)
- B. Kelly (2020)
- A. Promenschenkel (2020)
- J. Galbavy (2019)
- C. Gruchow (2018)
- T. Kalin (2018)
- M. Konopka (2018)
- C. Gruchow (2018)
- P. Li (2017)
- J. Emmel (2017)
- M. Gort (2016)
- B. Casey (2015)
- W. Belcher (2014).
- C. Hurley (2013).
- T. Whitney (2013).
- F. Sun (2004).
- X. Jiang (2003).
- P. Yao (2002).
- S. Fulmer (1999).
- J. Smith (1999).
- S. Won (1999).
- G. Xu (1999).
- V. Belde (1998).
- W. Sun (1998).
- T. Li (1997).
- S. Tomic (1997).
- V. Gibson (1996).
- P. Bhargava (1995).