

Doina Bein

142. W. Doris Avenue
State College, PA 16801
www.personal.psu.edu/dub19
(814) 863 4397

siona@psu.edu
US citizen

Education

08/2001 - 05/2006 Ph.D. in Computer Science; University of Nevada, Las Vegas, USA, GPA 4.0
08/1999 - 08/2001 Master of Science in Computer Science; University of Nevada, Las Vegas, USA, GPA 4.0
10/1996 - 09/1997 Master of Science in Computer Science; Al. I. Cuza University, Iasi, Romania, GPA 3.70
10/1991 - 05/1996 Bachelor of Science in Computer Science; Al. I. Cuza University, Iasi, Romania, GPA 3.88

Work Experience

08/2008-present Research Faculty, The Pennsylvania State University, Applied Research Laboratory

- Conducted research on self-adapting network controller, data fusion, and tracking in wireless sensor networks and heterogeneous sensor networks
- Conducted research on event-driven cluster formation on ad hoc and mobile wireless networks

01/2007-08/2008 Research Associate, University of Texas at Dallas, Department of Computer Science

- Conducted research on energy efficient broadcasting and multicasting for wireless sensor networks; self-organizing, self-adapting, self-healing wireless sensor networks
- Conducted research on attack graphs, graphs embedding, channel modeling for embedded protocols

08/2006-11/2006 Visiting Scholar, Osaka University, Japan

- Conducted research on self-stabilizing algorithms
- Conducted research on fault tolerant ring embedding on asynchronous systems

01/2003 - 05/2006 Teaching Assistant, University of Nevada, Las Vegas, School of Computer Science

- Instructor for CSC 119, C for Scientist (Summer 2003, Summer 2004)
- Instructor for CSC 115, Introduction to Computers (Summer 2004)
- TA for Automata and Formal Languages (Spring & Fall 2003, Spring & Fall 2004, Spring & Fall 2005, Spring 2006)
- TA for Introduction to Data Structures (Spring 2003)

01/2002 - 12/2002 Research Assistant, University of Nevada, Las Vegas, School of Computer Science

- Conducted research in web programming, Internet forensics & security
- Leading designer & software programmer for an FBI project (grant)

08/1999 - 12/2001 Teaching Assistant, University of Nevada, Las Vegas, School of Computer Science

- Instructor for Automata and Formal Languages (Fall 2001)
- TA for Analysis of Algorithms (Spring 2001)
- Lab Instructor for Computer Science I (Fall 1999, Spring 2000)
- TA for Automata and Formal Languages (Fall 1999, Spring & Fall 2000, Spring 2001)
- TA for Introduction to Data Structures (Fall 2000)

04/1997 - 08/1997 Visiting Scholar, Aix-Marseille University, Marseille, France, Computer Science Department

- TEMPUS scholarship recipient
- Worked with Prof. Dr. Traian Muntean in distributed systems, parallel algorithms, and Java Virtual Machine

- 09/1996 - 06/1999 Computer Science Teacher, Tehnoton High School, Iasi, Romania (Full time, tenured)
- Taught and tutored students, proofread for regional competitions in software programming and Computer Science section of the high school final exam
- 09/1995 - 06/1996 Computer Science Teacher, Gh. Asachi High School, Iasi, Romania (Part time)
- Taught and tutored students
- 01/1995 - 06/1995 Computer Science Teacher, Anghel Saligny High School, Iasi, Romania (Part time)
- Taught and tutored students

Honors

- 41st Hawaii International Conference in System Sciences (HICSS 2008), Best Paper Award, Software Technology track
- Associate Editor for the International Journal of Network Protocols and Algorithms – Power Efficient and Energy Saving Network Protocols and Algorithms area (May 2009-present)
- Member of SIAM (January 2006-present)
- Member of IEEE Society (February 2005-present)
- Recipient of Great Assistantship Award (Summer 2005, Summer 2001)
- Recipient of Summer Scholarship (Summer 2004)
- Recipient of merit recognition for UNLV Graduate Assistant Excellence in Teaching (April 9, 2003)
- National Dean’s List (Inductee 2003)
- Phi Kappa Phi, Chapter 100 (Inductee 2001)
- TEMPUS Scholarship (04/1997 - 08/1997)
- Al. I. Cuza University Scholarship (October 1991 - June 1996)

Book Chapters

- D. Bein, “Self-configuring, self-organizing, and self-healing schemes in MANETs”, chapter 2 of the *Guide to Wireless Ad Hoc Networks*, Sudip Misra, Isaac Woungang, and Subhas C. Misra (Editors), series *Computer Communications and Networks*, DOI 10.1007/978-1-84800-328-6_2, Springer-Verlag (London), pages 1-15, 2009.
- D. Bein, “Self-organizing and self-healing schemes in WSNs” for *Handbook of Wireless Ad Hoc and Sensor Networks*, Sudip Misra, Isaac Woungang, and Subhas C. Misra (Editors), in print.

Refereed Journal Articles

- D. Bein, W. Bein, P. Madiraju, “The Impact of Cloud Computing on Web 2.0”, *Economy Informatics Journal (EIJ)* (2009) 9(1):5–12.
- W. Bein, D. Bein, and S. Malladi, “Fault Tolerant Coverage Models for Sensor Networks”, *International Journal of Sensor Networks (IJSNet)* (2009) 5(4):199–209.
- Y. Yamauchi, T. Masuzawa, and D. Bein, “Preserving the Fault-Containment of Ring Protocols Executed on Trees”, *British Computer Journal* (2009) 52(4):483–498, Oxford University Press for British Computer Society.
- D. Bein, A.K. Datta, L.L. Larmore, “Synchronization Algorithms on Oriented Chains”, *Scientific Annals in Computer Science* (2008) 18:13–34, Al. I. Cuza University Press.

- D. Bein, A.K. Datta, and S. Yellenki, “Cluster-Based Route Discovery Protocol”, *Scalable Computing: Practice and Experience Journal* (2008), Special issue on Distributed Intelligent Systems, 9(1):21–28, March 2008.
- D. Bein, A.K. Datta, and M.H. Karaata, “An Optimal Snap-Stabilizing Multi-Wave Algorithm”, *Computer Journal* (2007) 50(3):332–340, Oxford University Press for British Computer Society. Impact factor: 0.88.
- D. Bein, A.K. Datta, and V. Villain, “Self-Stabilizing Local Routing in Ad Hoc Networks”, *Computer Journal* (2007) 50(2):197–203, Oxford University Press for British Computer Society. Impact factor: 0.88.
- D. Bein, V. Jolly, B. Kumar, and S. Latifi, “Reliability Modeling in Wireless Sensor Networks”, *International Journal of Information Technology* (2005) 11(2):1–8. Impact factor: 1.239.
- D. Bein, W. Bein, N. Brajkovska, and S. Latifi, “Optimal Embedding of Honeycomb Networks into Hypercubes”, *Parallel Processing Letters* (2004), 14(3 & 4):367–375, September-December 2004.

Journal/Conference Articles Accepted/In print

- D. Bein, T. Masuzawa, and Y. Yamauchi, “Reliable Communication on Emulated Channels Resilient to Transient Faults” (journal paper), *International Journal of Foundations of Computer Science (IJFCS)*, special issue, accepted January 2010.
- G. Mallapragada, Y. Wen, S. Phoha, D. Bein and A. Ray, “Tracking Mobile Targets using Wireless Sensor Networks” (conference paper), *7th International Conference on Information Technology: New Generations*, April 12-14, 2010, Las Vegas, Nevada, USA, accepted December 7, 2009.
- Y. Wen, D. Bein and S. Phoha, “Middleware for Heterogeneous Sensor Networks in Urban Scenarios” (conference paper), *7th International Conference on Information Technology: New Generations*, April 12-14, 2010, Las Vegas, Nevada, USA, accepted December 7, 2009.
- D. Bein, W. Bein and S. Phoha, “Efficient Data Centers, Cloud Computing in the Future of Distributed Computing” (conference paper), *7th International Conference on Information Technology: New Generations*, April 12-14, 2010, Las Vegas, Nevada, USA, accepted December 7, 2009.
- D. Bein, H. Kakugawa, and T. Masuzawa, “Convergence Time of Self-Stabilizing Protocols with Faults” (journal paper), *International Journal of Autonomous and Adaptive Communications Systems (IJAAACS)*.
- D. Bein and S.Q. Zheng, “An effective algorithm for computing energy-efficient broadcasting trees in all-wireless networks” (journal paper), *Ad Hoc and Sensor Wireless Networks*, in print, accepted August 2009.
- Y. Yamauchi, D. Bein, T. Masuzawa, L. Morales, and I.H. Sudborough, “Calibrating Embedded Protocols on Asynchronous Systems” (journal paper), *Information Sciences*, Elsevier, DOI 10.1016/j.ins.2009.08.029.
- D. Bein and S.Q. Zheng, “Energy Efficient All-to-All Broadcast in All-Wireless Networks” (journal paper), *Information Sciences*, Elsevier, DOI 10.1016/j.ins.2009.11.013.

Articles in Refereed Conference Proceedings

- B. Chitturi, D. Bein, and N. Grishin, “Complete Enumeration of Compact Structural Motifs in Proteins”, *ACM First International Symposium on BioComputing (ISB 2010)*, February 15-17, 2010, Calicut, Kerala, India.
- D. Bein, T. Masuzawa, and Y. Yamauchi, “Reliable Communication on Emulated Channels Resilient to Transient Faults”, *Second International Workshop on Reliability, Availability, and Security (WRAS 2009)*, Hiroshima, Japan, December 2009, pp. 366-371.

- D. Bein, A.K. Datta, and B.A. Sathyanarayanan, “Efficient Broadcasting by Selective Forwarding”, *International Symposium on Intelligent Distributed Computing (IDC 09)*, October 13-14, 2009, Ayia Napa, Cyprus, Springer-Verlag Berlin, Studies in Computational Intelligence, vol. 237, pp. 43-52.
- D. Bein, A.K. Datta, P. Sajja, and S.Q. Zheng, “Impact of Variable Transmission Range in All-Wireless Networks”, *42nd Hawaii International Conference in System Sciences (HICSS)*, January 5-8, Waikoloa, Hawaii, 2009, pp. 1-10.
- D. Bein, A.K. Datta, and L.L. Larmore, “Local Synchronization on Oriented Rings”, *10th International Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS)*, Detroit, Michigan, November 21-23, 2008, Springer-Verlag, LNCS 5340, pp. 141-155. Acceptance rate: 39.53%.
- Y. Yamauchi, D. Bein. and T. Masuzawa, “Minimizing the Message Complexity on Embedded Protocols” (poster), *10th International Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS)*, Detroit, Michigan, November 21-23, 2008.
- D. Bein and S.Q. Zheng, “Approximating All-to-all Broadcast in Wireless Networks”, *International Symposium on Intelligent Distributed Computing (IDC)*, Catania, Italy, September 18-19, 2008, pp. 65-74. Acceptance rate: 34.48%.
- Y. Yamauchi, D. Bein, T. Masuzawa, L. Morales, and H.I. Sudborough, “Calibrating an Embedded Protocol on an Asynchronous System”, *International Symposium on Intelligent Distributed Computing (IDC)*, Catania, Italy, September 18-19, 2008, pp. 227-236. Acceptance rate: 34.48%.
- D. Bein, A.K. Datta, and L.L. Larmore, “Self-stabilizing Synchronization Algorithms on Oriented Chains” (short paper), *IEEE 4th International Conference on Intelligent Computer Communication and Processing (ICCP)*, Cluj-Napoca, Romania, August 28-30, 2008, pp. 303-306.
- D. Bein and S.Q. Zheng, “An effective algorithm for computing energy-efficient broadcasting trees in all-wireless networks”, *Workshop on Wireless Ad Hoc and Sensor Networks (WWASN)*, Beijing, China, June 20, 2008, pp. 273-278. Acceptance rate: 45.45%.
- D. Bein, A.K. Datta, and L.L. Larmore, “Self-stabilizing algorithms for sorting and heapification”, *IEEE International Parallel & Distributed Processing Symposium (IPDPS)*, Miami, Florida, April 14-17, 2008, pp. 1-12. Acceptance rate: 25.6%.
- Y. Yamauchi, T. Masuzawa, and D. Bein, “Ring embedding preserving the fault-containment”, *Proceedings of the 7th International Conference on Applications and Principles of Information Science (APIS)*, 2008, pp. 43-46.
- D. Bein, “Fault-tolerant k-fold Pivot Routing in Wireless Sensor Networks”, *Proceedings of the 41st Hawaii International Conference in System Sciences (HICSS)*, Waikoloa, Hawaii, January 7-10, 2008, IEEE Computer Press, pp. 245, **Best Paper Award, Software Technology track**. Acceptance rate: 62%.
- D. Bein, W. Bein, Z. Meng, L. Morales, C. Shields Jr., and H.I. Sudborough, “Clustering and the biclique partition problem”, *Proceedings of the 41st Hawaii International Conference in System Sciences (HICSS)*, Waikoloa, Hawaii, January 7-10, 2008, IEEE Computer Press, pp. 235. Acceptance rate: 62%.
- D. Bein, W. Bein, and K. Adusumilli, “A Genetic Algorithm for the Two Machine Flow Shop Problem”, *Proceedings of the 41st Hawaii International Conference in System Sciences (HICSS)*, Waikoloa, Hawaii, January 7-10, 2008, IEEE Computer Press, pp. 33. Acceptance rate: 62%.
- D. Bein, A.K. Datta, and S. Yellenki, “Cluster-Based Route Discovery Protocol”, *First International Symposium on Intelligent and Distributed Computing (IDC)*, Craiova, Romania, October 18-20, 2007, Springer Verlag, Studies in Computational Intelligence, vol. 78, pp. 53-62. Acceptance rate: 34.61%.
- D. Bein, A.K. Datta, and L.L. Larmore, “On Self-Stabilizing Search Trees”, *20th International Symposium on Distributed Computing (DISC)*, Stockholm, Sweden, September 18-20, 2006, Springer Verlag, Lecture Notes in Computer Science, vol. 4167, pp. 76-89. Impact factor: 0.85 (top 29.32%). Acceptance rate: 24.14%.

- D. Bein, A.K. Datta, and L.L. Larmore, “Self-Stabilizing Space Optimal Synchronization Algorithms on Trees”, *13th Colloquium on Structural Information and Communication Complexity (SIROCCO)*, Chester, UK, July 3-5, 2006, pp. 334-348. Acceptance rate: 35.29%.
- D. Bein, A.K. Datta, and V. Villain, “Self-Stabilizing Pivot Interval Routing in General Networks”, *International Symposium on Parallel Architectures, Algorithms, and Networks (ISPAN)*, Las Vegas, Nevada, December 7-9, 2005, pp. 282-287. Acceptance rate: 33%.
- D. Bein, A.K. Datta, C. Jagganagari, and V. Villain, “A Self-stabilizing Link-Cluster Algorithm in Mobile Ad Hoc Networks”, *International Symposium on Parallel Architectures, Algorithms, and Networks (ISPAN)*, Las Vegas, Nevada, December 7-9, 2005, pp. 436-441. Acceptance rate: 33%.
- D. Bein, A.K. Datta, and V. Villain, “Snap-stabilizing Optimal Binary Search Tree”, *Seventh International Symposium on Self Stabilizing Systems (SSS)*, Barcelona, Spain, October 26-27, 2005, pp. 1-17. Acceptance rate: 45.45%.
- D. Bein, A.K. Datta, and V. Villain, “Self-stabilizing optimal local routing in ad hoc networks”, *Third International Workshop on Mobile and Distributed Systems (MDC)*, June 10, 2005, Proceedings of the ICDCS Workshops, vol. 6, pp. 564-570. Acceptance rate: 26.83%.
- D. Bein, A.K. Datta, M.H. Karaata, and S. Zaman, “An Optimal Snap-Stabilizing Multi-Wave Algorithm”, *Fourth International Workshop on Assurance in Distributed Systems and Networks (ADSN)*, June 6, 2005, Proceedings of ICDCS Workshops, vol. 6, pp. 35-41. Acceptance rate: 75%.
- D. Bein, A.K. Datta, M.H. Karaata, and S. Zaman, “Snap-Stabilizing k-Wave Synchronizer for Rooted Tree”, *International Conference on Computational Science (ICCS)*, Atlanta, Georgia, May 22-25, 2005, vol. 1, pp. 560-567. Acceptance rate: 35%.
- D. Bein, W. Bein, and S. Malladi, “Fault Tolerant Coverage Model for Sensor Networks”, *International Conference on Computational Science (ICCS)*, Atlanta, Georgia, May 22-25, 2005, vol. 2, pp. 535-542. Acceptance rate: 35%.
- D. Bein and A.K. Datta, “A Self-Stabilizing Directed Diffusion Protocol for Sensor Networks”, *Mobile and Wireless Networks Workshop (MWN)*, Montreal, Canada, August 15, 2004, Proceedings of the 2004 ICPP Workshops, IEEE Computer Society, pp. 69-76. Acceptance rate: 50%.
- D. Bein, B. Kumar, V. Jolly, and S. Latifi, “On Reliability Concerns in Wireless Sensor Networks”, *International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA)*, Las Vegas, Nevada, June 21-24, 2004, CSREA Press, vol. 3, pp. 1043-1048.
- D. Bein and A.K. Datta, “Self-Stabilizing Directed Diffusion Protocol in Sensor Networks”, *International Conference on Computational Science (ICCS)*, Krakow, Poland, June 6-9, 2004, Springer-Verlag, Lecture Notes in Computer Science (LNCS), vol. 3039, pp. 1233-1240.
- D. Bein, N. Brajkovska, and S. Latifi, “Embedding of Honeycomb Mesh Networks into Hypercubes”, *International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA)*, Las Vegas, Nevada, June 23-26, 2003, CSREA Press, vol. 2, pp. 871-876.
- D. Bein, A.K. Datta, and V. Villain, “Self-Stabilizing Routing Protocol for General Networks”, *2nd Annual International Conference on Networking in Education and Research (RoEduNet)*, Iasi, Romania, June 5-6, 2003, pp. 15-22.

Survey Papers (Refereed Conference Proceedings)

- D. Bein, W. Bein, and P. Madiraju, “Cloud Computing and the Future of Web”, *Ninth International Conference on Informatics in Economy (IE)*, Bucharest, Romania, May 7-8, 2009.
- D. Bein and W. Bein, “Wireless Communication in Ubiquitous Environments, an Easy Target to Attacks”, *7th International Conference on Networking in Education and Research (RoEduNet)*, Cluj-Napoca, Romania, August 28-30, 2008, UT Press, ISBN 978-973-662-393-6, pp. 17-20.

- D. Bein, V. Jolly, and L. Morales, “Location Management and Cost Planning for Personal Communication Systems”, *Fourth IFAC Conference on Management and Control of Production and Logistics (IFAC MCPL)*, September 27-30, 2007, ISBN 978-973-739-481-1, pp. 683-688.
- D. Bein, W. Bein, M. Brut, and A.M. Cazacu, “Why is hard to patent an invention”, *Eighth International Conference on Informatics in Economy (IE)*, Bucharest, Romania, May 17-18, 2007, ASE Printing House, pp. 133-138, ISBN 978-973-594-921-1.
- D. Bein, W. Bein, V. Jolly, and S. Latifi, “Web Spoofing and phishing attacks on the Internet”, *5th International Conference on Networking in Education and Research (RoEduNet)*, Sibiu, Romania, June 1-3, 2006, Remus Brad (Ed.), Lucian Blaga University Press, ISBN (10) 973-739-277-9, pp. 106-109.
- V. Jolly and D. Bein, “Optical Network Evolution - SONET & DWDM”, *5th International Conference on Networking in Education and Research (RoEduNet)*, Sibiu, Romania, June 1-3, 2006, Remus Brad (Ed.), Lucian Blaga University Press, ISBN (10) 973-739-277-9, pp. 162-165.
- D. Bein, A.K. Datta, V. Jolly, and S. Latifi, “Bluetooth, the Tool for a Seamless Internet?”, *3rd Annual International Conference on Networking in Education and Research (RoEduNet)*, Timisoara, Romania, May 27-28, 2004, Transactions on Automatic Control and Computer Science, volume 49(63), pp. 15-28.
- D. Bein, W. Bein, V. Jolly, and S. Latifi, “Privacy and Security on Internet: Virtual Private Networks”, *3rd Annual International Conference on Networking in Education and Research (RoEduNet)*, Timisoara, Romania, May 27-28, 2004, Transactions on Automatic Control and Computer Science, volume 49(63), pp. 39-42.
- D. Bein and A.K. Datta, “Anonymators: Privacy and Security on the Internet”, *2nd Annual International Conference on Networking in Education and Research (RoEduNet)*, Iasi, Romania, June 5-6, 2003, pp. 10-14.

Under Review Journal and Conference Articles

- B. Babadi, D. Bein, B.B. Madan, S. Phoha, V. Tarokh, Y. Wen, “Dynamically Prioritized Frequency Band Allocation for Wireless Sensor Networks” (journal paper), *Transactions on Mobile Computing*, submitted February 2010.
- D. Bein and S.Q. Zheng, “Minimizing Total Energy of Broadcast Trees in All-Wireless Networks” (journal paper), *IEEE Transactions on Parallel and Distributed Systems*, submitted June 2009.
- S. Phoha, G. Mallapragada, Y. Wen, D. Bein, A. Ray, “Designing a Fusion-Driven Sensor Network to Track Mobile Targets” (journal paper), *Transactions on Mobile Computing*, submitted May 2009.

Projects

- *NC* - network controller for event-driven wireless sensor networks in urban environments; project called Engineering Sensor Networks for Information Fusion (eSenseIF) Multidisciplinary University Research Initiative (MURI)
- *Anonymator* - a third party program acting as a middleman between the user and the web site; project for an FBI grant
- *Anon* - collects all the packets from a given port number of a host machine, and extracts essential data; project for an FBI grant
- *Environments Developed for Economical Forecasting* - project written in Borland C++; project for BS in CS degree, Al. I. Cuza University, Iasi, Romania, internal use
- *Parallel Version of a Sequential Algorithm for Solving Inequalities* - project for TEMPUS scholarship, Aix-Marseille University, internal use.

Conferences - Program Committee Member

- 2nd IEEE International Workshop on Middleware Engineering (ME 2010), held in conjunction with 34th IEEE Computer Software and Applications Conference (COMPSAC 2010), Seoul, Korea, July 19-23, 2010
- The Second International Conference on Networks & Communications (NeCoM-2010) Chennai, India, 20 - 22, August, 2010.
- Fourth International Symposium on Intelligent Distributed Computing (IDC) 2010, Tangier, Morocco, September 16-18, 2010
- The Second International Conference on Wireless & Mobile Networks (WiMo-2010), June 26-28, 2010, Ankara, Turkey
- Second International Workshop on Computer Networks & Communications (CoNeCo-2010), held in conjunction with WiMo 2010, June 26-28, 2010, Ankara, Turkey
- International Workshop on Mobility, Algorithms, Graph Theory in Dynamic Networks (IMAGINE) 2010
- The First International Conference on Networks and Communications (NetCoM-2009), to be held in Chennai, India, December 27-29, 2009
- The Second International Workshop on Internet and Distributed Computing Systems (IDCS) 2009, to be held in conjunction with The Second International Conference on Computer Science and its Applications (CSA) 2009, December 10-12, 2009, Jeju Island, Korea
- The First International Workshop on Wireless & Mobile Networks (WiMo) 2009, held in conjunction with The Sixth International Conference on Ubiquitous Intelligence and Computing (UIC) 2009, Brisbane, Australia, July 7-10, 2009
- The First International Workshop on Networks and Communications (NeCoM-2009), held in conjunction with the 3rd International Conference on New Trends in Information and Service Science (NISS) 2009, Beijing, China, June 30-July 2, 2009
- 1st IEEE International Workshop on Middleware Engineering (ME) 2009, held in conjunction with 33rd IEEE Computer Software and Applications Conference (COMPSAC) 2009, Seattle, Washington, July 20, 2009
- International Workshop on Mobility, Algorithms, Graph Theory in Dynamic Networks (IMAGINE) 2009, Piran, Slovenia, May 28, 2009
- Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS) 2009, Stabilization track, Detroit, Michigan, USA, November 21-23, 2009
- Third International Symposium on Intelligent Distributed Computing (IDC) 2009, Catania, Italy, September 18-19, 2009
- Richard Tapia Celebration of Diversity in Computing Conference 2009, Portland, Oregon, USA, April 1-4, 2009
- Hawaii International Conference in System Sciences (HICSS) 2009, Algorithmic Challenges in Emerging Applications of Computing, minitrack of Software Technology track, Waikoloa, Big Island, Hawaii, USA, January 6, 2009
- International Workshop on Mobility, Algorithms, Graph Theory in Dynamic Networks (IMAGINE) 2008, Reykjavik, Iceland, July 12, 2008
- Hawaii International Conference in System Sciences (HICSS) 2008, Algorithmic Challenges in Emerging Applications of Computing, minitrack of Software Technology track, Waikoloa, Big Island, Hawaii, USA, January 8, 2008

- Symposium on Applied Computing (SAC) 2008, Middleware Engineering track, Fortaleza, Ceara, Brazil, March 16-20, 2008
- International Workshop on Intelligent Pervasive Middleware (IPM) 2007, held in conjunction with The 2007 International Conference on Intelligent Pervasive Computing (IPC-07), Jeju Island, Korea, October 11, 2007
- Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS) 2007, Paris, France, 14-16 November 2007
- Workshop on Reliability, Availability, and Security (WRAS) 2007, held in conjunction with SSS 2007, Paris, France, November 16, 2007
- Richard Tapia Celebration of Diversity in Computing Conference (TAPIA) 2007, Orlando, Florida, USA, October 14-17, 2007

Service to Profession

- Publicity Chair for the Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS) 2010
- Steering Committee Member for The Second International Conference on Networks & Communications (NeCoM-2010), Chennai, India
- Publicity Chair for Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS) 2009, Lyon, France
- Poster co-chair for Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS) 2008, Detroit, MI, USA
- Session chair for Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS) 2008, Detroit, MI, USA
- Session chair for International Symposium on Intelligent Distributed Computing (IDC) 2008, Catania, Italy
- Plenary speaker at International Workshop on Mobility, Algorithms, Graph Theory in Dynamic Networks (IMAGINE) 2007, Limassol, Cyprus
- Invited speaker at the First Canadian Discrete and Algorithmic Mathematics Conference (CanaDAM 2007), Games on Graphs track, Banff, Canada
- Finance and Registration chair for the International Symposium on Parallel Architecture and Networks (ISPAN) 2005, Las Vegas, NV, USA
- Session Chair for session 6B, Ad hoc and Sensor Networks, for the International Symposium on Parallel Architecture and Networks (ISPAN) 2005, Las Vegas, NV, USA
- Session Chair for session M10, Networks and Distributed Algorithms, at the International Conference on Computational Science (ICCS) 2005, Atlanta, GA, USA

Presentations & Invited Talks

- “MinMax Model for Energy-Efficient All-Wireless Networks”, presentation given at The University of Nevada, Las Vegas, April 14, 2009.
- “Hard Problems for Wireless Networks”, presentation given at The University of Texas at Brownsville, March 9, 2009.
- “Self-configuring, Self-organizing, and Self-healing Schemes in MANETs”, presentation given at Oklahoma City University, June 25, 2008.

- “Hard Problems for Wireless Networks”, presentation given at Applied Research Laboratory, The Pennsylvania State University, June 19, 2008.
- “Hard Problems for Wireless Networks”, Plenary presentation for IMAGINE 2007, September 27, 2007.
- “On Self-Stabilizing Search Trees”, Invited presentation for CANADAM 2007, May 29, 2007.
- “Self-Stabilizing Local Routing in Ad Hoc Networks”, presentation given at City University of Hong Kong, December 12, 2006.
- “Self-Stabilizing Local Routing in Ad Hoc Networks”, presentation given at Osaka University, October 18, 2006.
- “On Self-Stabilizing Search Trees”, presentation given at Osaka University, August 30, 2006.
- Presented full-length papers at HICSS 2009, SSS 2008, IDC 2008, IPDPS 2008, HICSS 2008, IDC 2007, MCPL 2007, DISC 2006, SIROCCO 2006, ISPAN 2005, SSS 2005, ADSN 2005, MDC 2005, ICCS 2005, MWN 2004, RoEduNet 2004, ICCS 2004, RoEduNet 2003
- Participated at CRA-W 2009, ACG 2007, IMAGINE 2007, SSS 2006

Reviewer for Conferences and Journals

- International Journal of Ad Hoc and Ubiquitous Computing (IJAHUC) 2009
- IEEE Transactions on Parallel and Distributed Systems 2009
- IEEE Transactions on Computers 2009
- 20th International Symposium on Algorithms and Computation (ISAAC) 2009
- Theoretical Computer Science 2009
- Journal of Information Sciences (INS) 2009
- Information Processing Letters (IPL) 2010, 2009
- British Computer Journal (CJ) 2008
- Discrete Applied Mathematics (DAM) 2008, 2007
- Symposium on Self-Stabilizing Systems (SSS) 2008, 2007, 2006, 2005
- International Journal of Computer Mathematics (IJCM) 2009, 2008
- International Journal of Information Technology (IJIT) 2008
- Parallel Processing Letters (PPL) 2008
- Computer Communications (CompCom) 2009, 2008, 2007
- International Symposium on Parallel Architectures, Algorithms, and Networks (I-SPAN) 2008
- Transactions on Autonomous and Adaptive Systems (TAAS) 2007
- 11th International Conference On Principles Of Distributed Systems (OPODIS) 2007
- Workshop on Reliability, Availability, and Security (WRAS) 2007
- Richard Tapia Celebration of Diversity in Computing Conference (TAPIA) 2007
- IEEE International Parallel and Distributed Processing Symposium (IPDPS) 2006
- International Conference on Distributed Computing and Internet Technology (ICDCIT) 2005
- International Conference on High Performance Computing (HiPC) 2005

- Mobile and Distributed Computing Workshop (MDC) 2005
- Information and Knowledge Engineering (IKE) 2003
- Journal of Parallel and Distributed Computing (JPDC), vol. 62, issue 5 (May 2002), Special Issue on Self-Stabilizing Distributed Systems.

Service to University

- 09/2002 - 05/2006: representative of the School of Computer Science in the Graduate & Professional Student Association (GPSA), University of Nevada, Las Vegas. Major accomplishments: Initiate and obtain wireless access in GPSA lounge in the Lied library, initiate and obtain wireless access outside TBE (Engineering) building.
- 09/2003 - 05/2006: member of the Student Technology Advisory Board (STAB), University of Nevada, Las Vegas.
- 11/2004 - 05/2006: member of the Information Technology Coordination Committee (ITCC), University of Nevada, Las Vegas. Major accomplishments: participate in developing the email policy for the RAVE (campus email system), participate in developing the administrator and users policies for the computers in the public labs.