

# CHUNYU AI

Professor  
Division of Math & Computer Science  
University of South Carolina Upstate  
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## RESEARCH INTERESTS

- Wireless sensor networks
- Data Management
- Social Networks

## EDUCATION

- Ph.D. Computer Science August 2006 – August 2010  
Georgia State University, Atlanta, GA
- M.S. Computer Science September 2001 – July 2004  
Heilongjiang University, Harbin, China
- B.S. Computer Software September 1997 – July 2001  
Heilongjiang University, Harbin, China

## WORK EXPERIENCE

- Computer Science, University of South Carolina Upstate Aug 2022 – present  
**Professor**
- Computer Science, University of South Carolina Upstate Aug 2018 – Aug 2022  
**Associate Professor**
- Computer Science, University of South Carolina Upstate Jan 2013 – Aug 2018  
**Assistant Professor**
- Computer Science, Troy University Aug 2010 – Dec 2012  
**Assistant Professor**
- Department of Computer Science, Georgia State University Aug 2006 – Aug 2010  
**Graduate Research Assistant**
- Department of Computer Science, Heilongjiang University, China  
**Instructor** July 2004 – July 2006

## PUBLICATIONS

### JOURNAL ARTICLES:

1. Wei Zhong, Ning Yu and **Chunyu Ai**, "Applying big data based deep learning system to intrusion detection", *Big Data Mining and Analytics*, 3(30), 181-195, 2020.
2. Ruonan Zhao, Lichen Zhang, Xiaoming Wang, **Chunyu Ai**, Fei Hao, Yaguang Lin and Lei Shi, "A novel energy-efficient probabilistic routing method for mobile opportunistic networks", *Journal on Wireless Communications and Networking*, 2018 (1), 1-15.
3. **Chunyu Ai**, Frank Haizhon Li and Kejia Zhang, "Detecting Isolate Safe Areas in Wireless Sensor Monitoring Systems", *Journal of Tsinghua Science and Technology*, Vol 22, Number 4, pp 427-436, Sep 24, 2017.

4. Meng Han, Zhuojun Duan, **Chunyu Ai**, Forrest Wong Lybarger, Yingshu Li, and Anu G. Bourgeois, "Time constraint influence maximization algorithm in the age of big data", *International Journal of Computational Science and Engineering*, 15(3-4), 165-175, Oct 03, 2017.
5. **Chunyu Ai**, Wei Zhong, Mingyuan Yan, Feng Gu, "A Partner Matching Framework for Social Activity Communities", *Computational Social Networks*, Vol. 1.1, 2014.
6. **Chunyu Ai**, Yueming Duan, Mingyuan Yan, and Jing He, "Area Query Processing Based on Gray Code in Wireless Sensor Networks", *Tsinghua Science and Technology*, Vol.17, Issue 5, 2012.
7. Yingshu Li, **Chunyu Ai**, Zhipeng Cai, and Raheem Beyan, "Sensor scheduling for p-percent coverage in wireless sensor networks", *Cluster Computing*, pp. 27-40, March 2011.
8. Yingshu Li, Chinh Vu, **Chunyu Ai**, Guantao Chen, and Yi Zhao, "Transforming Complete Coverage Algorithms to Partial Coverage Algorithms for Wireless Sensor Networks," *IEEE Transactions on Parallel and Distributed Systems*, pp. 695-703, April 2011.
9. Longjiang Guo, Meirui Ren, Jinbao Li, Yong Liu, and **Chunyu Ai**, "H-cluster: A Novel Efficient Algorithm for Data Clustering in Sensor Networks," *Journal of Communications*, Vol 6, No 2 (2011), 168-178, Apr 2011.
10. Yingshu Li, **Chunyu Ai**, Chinh T. Vu, Yi Pan, and Raheem Beyah, "Delay-Bounded and Energy-Efficient Composite Event Monitoring in Heterogeneous Wireless Sensor Networks," *IEEE Transactions on Parallel and Distributed Systems*, pp. 1373-1385, September 2010.
11. Yingshu Li, Yiwei Wu, **Chunyu Ai**, and Raheem Beyah, "On the construction of k-connected m-dominating sets in wireless networks," *Journal of Combinatorial Optimization*, August 2010.
12. Ruiying Du, **Chunyu Ai**, Longjiang Guo, Jing Chen, Jianwei Liu, Jing He, and Yingshu Li, "A Novel Clustering Topology Control for Reliable Multi-hop Routing in Wireless Sensor Networks," *Journal of Communications*, Vol 5, No 9 (2010), 654-664, Oct 2010.
13. **Chunyu Ai**, Hailong Hou, Yingshu Li, and Raheem Beyah, "Authentic delay bounded event detection in heterogeneous wireless sensor networks," *Ad Hoc Network*, 7, 3, pp. 599-613 , May 2009.
14. Weiping Wang, Jianzhong Li, **Chunyu Ai**, and Shengfei Shi, "Continuously Evaluating Approximate Similarity Search on High Dimensional Data Stream," *The Journal of Digital Information Management*, 4(1), pp. 82-86, March 2006.
15. Dongdong Zhang, Jianzhong Li, Weiping Wang, Longjiang Guo, and **Chunyu Ai**, "Reducing communication overhead over distributed data streams by filtering frequent items," *The Journal of Digital Information Management*, 3(2), pp. 101-107, June 2005.
16. **Chunyu Ai**, Jianzhong Li, and Hong Gao, "An Efficient Data Declustering Method RCMD in Parallel Database", *Computer Science*, 32(11) 2005, pp. 108-111.

PEER-REVIEWED CONFERENCE PROCEEDING ARTICLES:

The 8th APWeb-WAIM joint  
international  
conference  
on Web and Big Data

1. Meirui Ren, Longjiang Guo, and **Chunyu Ai**, "Clustering based Collaborative Learning Grouping for Knowledge Building", *accepted by the 8th APWeb-WAIM International Joint Conference on Web and Big Data, 2024*.
2. Jiachen Ma, Jing Dai, Yong Liu, Meng Han, and **Chunyu Ai**, "Contrastive Learning for Rumor Detection via Fitting Beta Mixture Model", *Proceedings of the 32nd ACM International Conference on Information and Knowledge Management*, 4160-4164, 2023.
3. Xudong Zhang, Feng Gu, Wei Zhong, and **Chunyu Ai**, "A Hybrid Resampling Technique with Adaptive Intervals Used in the Parallel/Distributed Particle Filters", *7th International Conference on Computer Science and Artificial Intelligence (CSAI 2023)*, 319-325.
4. **Chunyu Ai**, Wei Zhong and Longjiang Guo, "Reinforcement Learning Based Group Event Invitation Algorithm", *International Conference on Wireless Algorithms, Systems Applications (WASA 2020)*, 3-14, 2020.
5. Ruonan Zhao, Lichen Zhang, Xiaoming Wang, **Chunyu Ai**, Fei Hao and Yaguang Lin, "An Efficient Energy-Aware Probabilistic Routing Approach for Mobile Opportunistic Networks", *In Proceedings of 13th International Conference on Wireless Algorithms, Systems, and Applications (WASA 2018)*, Springer, Tianjin, China, June 20-22, 2018 pp. 671-682.
6. Meng Han, Jinbao Wang, Zhuojun Duan, Mingyuan Yan, **Chunyu Ai** and Zhen Hong, "Near-Complete Privacy Protection: Cognitive Optimal Strategy in Location-Based Services", *Conference on Identification, Information & Knowledge in the Internet of Things (IIKI 2017)*, Qufu, China, Oct 19-21, 2017.
7. Weitian Tong, Scott Buglass, Jeffrey Li, Lei Chen, **Chunyu Ai**, "Smart and Private Social Activity Invitation Framework Based on Historical Data from Smart Devices", *10th EAI International Conference on Mobile Multimedia Communications*, July 13-14, 2017, Chongqing China, Proceedings of the 10th EAI International Conference on Mobile Multimedia Communications, December 2017, Pages 143–152.
8. **Chunyu Ai**, Meng Han, Jinbao Wang, and Mingyuan Yan, "An Efficient Social Event Invitation Framework based on Historical Data of Smart Devices", *The 9th IEEE International Conference on Social Computing and Networking*, October 8-10, 2016, Atlanta.
9. Mingyuan Yan, **Chunyu Ai**, Meng Han, Zhipeng Cai, and Yingshu Li "Data Aggregation Scheduling in Probabilistic Wireless Networks with Cognitive Radio Capability", *IEEE Global Communication Conference (GLOBECOM 2016)*, December 4-8, 2016, Washington, DC.
10. Jinbao Wang, Zhipeng Cai, **Chunyu Ai**, Donghua Yang, Hong Gao, and Jianzhong Li, "Differentially Private k-Anonymity: Achieving Query Privacy in Location-Based Services", *International Conference on Identification, Information and Knowledge in the Internet of Things for 2016*, October 20-21, 2016, Beijing.
11. Feng Gu, Rida Syeda, and **Chunyu Ai**, "Geo-referenced image data assimilation for wildfire spread simulation", *In Proceedings of the 49th Annual Simulation Symposium (ANSS '16)*. *Society for Computer Simulation International*, San Diego, CA, USA, Article 11 , 8 pages.

12. Feng Gu, Mohammad Butt, **Chunyu Ai**, Xiaoke Shen, and Jiehao Xiao. "Adaptive particle filtering in data assimilation of wildfire spread simulation". In *Proceedings of the Conference on Summer Computer Simulation (SummerSim '15)*, Society for Computer Simulation International, San Diego, CA, USA, 1-10, 2015.
13. **Chunyu Ai** and Frank Haizhon Li. "Isolate Safe Area Detection for Rescue in Wireless Sensor Networks." In *Proceedings of the 9th International Conference on Wireless Algorithms, Systems, and Applications*, Vol. 8491. Springer-Verlag New York, Inc., New York, NY, USA, 718-728, 2014.
14. **Chunyu Ai**, Wei Zhong, Mingyuan Yan, Feng Gu, "Partner Matching Applications of Social Networks". In *Proceeding of International Computing and Combinatorics Conference*. Springer International Publishing, 2014, pp. 647-656.
15. Ning Tian, Longjiang Guo, Meirui Ren, **Chunyu Ai**, "Implementing the Matrix Inversion by Gauss-Jordan Method with CUDA", In *Proceedings of the 9th International Conference on Wireless Algorithms, Systems, and Applications*, Vol. 8491. Springer-Verlag New York, Inc., New York, NY, USA, pp. 44-53, 2014.
16. Ning Tian, Longjiang Guo, **Chunyu Ai**, Meirui Ren, Jinbao Li, "GPU Acceleration of Finding Maximum Eigenvalue of Positive Matrices", In *International Conference on Algorithms and Architectures for Parallel Processing (pp. 231-244)*. Springer International Publishing.
17. Shufang Du, Longjiang Guo, **Chunyu Ai**, Jinbao Li and Meirui Ren, "GPU Acceleration of Finding Frequent Patterns over Large Biological Sequence", In *20th IEEE International Conference on Parallel and Distributed Systems (ICPADS)*, Hsinchu, Taiwan December 16-19, 2014.
18. Shufang Du, Longjiang Guo, **Chunyu Ai**, Meirui Ren, Hao Qu, and Jinbao Li, "GPU Acceleration of Finding LPRs in DNA Sequence Based on SUA Index", *2014 IEEE 33rd International Performance Computing and Communications Conference (IPCCC)*, Austin, TX, 2014, pp. 1-8.
19. Renda Wang, Longjiang Guo, **Chunyu Ai**, Jinbao Li, Meirui Ren and Keqin Li, "An Efficient Graph Isomorphism Aglorithm Based on Canonical Labeling and its Parallel Implementation on GPU ", *the 15th IEEE International Conference on High Performance Computing and Communications (HPCC 2013)*, Zhangjiajie, China, November 13-15, 2013.
20. Xinjing Wang, Longjiang Guo, **Chunyu Ai**, Jinbao Li, Zhipeng Cai, "An Urban Area-Oriented Traffic Information Query Strategy in VANETs", In *Proceedings of the 8th international conference on Wireless Algorithms, Systems and Applications (WASA' 13)*, Springer-Verlag, Berlin, Heidelberg, 2013, pp. 313-324.
21. Himali Saxena, **Chunyu Ai**, Marco Valero, Yingshu Li, and Raheem Beyah, "DSF - A Distributed Security Framework for heterogeneous wireless sensor networks," *Military Communications Conference, 2010 - MILCOM 2010*, vol., no., pp.1836-1843, Oct. 31 2010-Nov. 3 2010.
22. **Chunyu Ai**, Longjiang Guo, Zhipeng Cai, and Yingshu Li, "Processing Area Queries in Wireless Sensor Networks," *5th International Conference Mobile Ad-hoc and Sensor Networks, 2009 (MSN '09)*, vol., no., pp.1-8, 14-16 Dec. 2009.
23. **Chunyu Ai**, Ruiying Du, Minghong Zhang, and Yingshu Li, "In-Network Historical Data Storage and Query Processing Based on Distributed Indexing Techniques in Wireless Sensor

- Networks," *Wireless Algorithms, Systems, and Applications, WASA 2009*, pp. 264-273, August 16-18, 2009.
24. Longjiang Guo, **Chunyu Ai**, Xiaoming Wang, Zhipeng Cai, and Yingshu Li , "Real time clustering of sensory data in wireless sensor networks," *IEEE 28th International Performance Computing and Communications Conference (IPCCC), 2009*, vol., no., pp.33-40, 14-16 Dec. 2009.
  25. Yingshu Li, **Chunyu Ai**, Deshmukh W.P., and Yiwei Wu, "Data Estimation in Sensor Networks Using Physical and Statistical Methodologies," *The 28th International Conference on Distributed Computing Systems, 2008. ICDCS '08*, vol., no., pp.538-545, 17-20 June 2008.
  26. Yiwei Wu, **Chunyu Ai**, Shan Gao, and Yingshu Li, "p -Percent Coverage in Wireless Sensor Networks," *Wireless Algorithms, Systems, and Applications, WASA 2008*, pp. 200-211, October 26-28, 2008.
  27. Weiping Wang, Jianzhong Li, **Chunyu Ai**, and Yingshu Li, "Privacy protection on sliding window of data streams," *International Conference on Collaborative Computing: Networking, Applications and Worksharing, 2007. CollaborateCom 2007*, vol., no., pp.213-221, 12-15 Nov. 2007.
  28. My T. Thai, Yingshu Li, **Chunyu Ai** and Ding-Zhu Du, "On the Construction of Energy Efficient Broadcast Tree with Hitch-Hiking in Wireless Networks," *24th IEEE International Performance Computing and Communications Conference, (IPCCC 2005)*, vol., no., pp. 135-139, 7-9 April 2005.
  29. DongDong Zhang, Jianzhong Li, Weiping Wang, Longjiang Guo, and **Chunyu Ai**, "Processing Frequent Items over Distributed Data Streams," *Web Technologies Research and Development - APWeb 2005*, pp.523-529, March 29 – April 1, 2005.
  30. **Chunyu Ai**, Jianzhong Li, Hong Gao, Weiping Wang, "Adaptive Chosen Algorithm of Data Declustering and On-line Conversion Strategy in Parallel Database," *20th NDBC, Oct 10-12, Changsha, China. Computer Science*, Vol. 30 No.10 (supplement) 2003, pp. 124-128.

#### OTHER PUBLICATIONS

- Wei Zhong and **Chunyu Ai**, "Applying a Novel Deep Learning System to Local Protein Structure Prediction", 16th Annual SCUptstate Research Symposium, 2020, 143-145.

#### PRESENTATIONS

- The 15th International Conference on Wireless Algorithms, Systems, and Applications, Virtual Conference, September 13-15, 2020.  
Topic: "*Reinforcement Learning Based Group Event Invitation Algorithm* "
- The 9th IEEE International Conference on Social Computing and Networking, Atlanta, Georgia, USA, October 8-10, 2016.  
Topic: "*An Efficient Social Event Invitation Framework based on Historical Data of Smart Devices*"

- The 9th International Conference on Wireless Algorithms, Systems, and Applications, Harbin, China, June 23-25, 2014.  
Topic: "*Isolate Safe Area Detection for Rescue in Wireless Sensor Networks*"
- The 20th International Computing and Combinatorics Conference, Atlanta, GA, USA, August 4-6, 2014.  
Topic: "*Partner Matching Applications of Social Networks*"
- The 33rd IEEE International Performance, Computing, and Communication Conference, Austin, Texas, USA, December 5-7, 2014.  
Topic: "*GPU Acceleration of Finding LPRs in DNA Sequence Based on SUA Index*"
- The 4th International Conference on Wireless Algorithms, Systems, and Applications, Boston, USA, August 16-18, 2009.  
Topic: "*In-network historical data storage and query processing based on distributed indexing techniques in wireless sensor*"
- The 28th International Conference on Distributed Computing Systems, Beijing, China, June 17-20, 2008.  
Topic: "*Data Estimation in Sensor Networks Using Physical and Statistical Methodologies*"

#### PROFESSIONAL ACTIVITIES

- *Session Chair* of the 39th IEEE International Performance Computing and Communications Conference, November 6-8, 2020.
- *Publicity Chair* of the 5<sup>th</sup> IEEE Cyber Science and Technology Congress, June 22-26, 2020, Calgary, Canada.
- *Publicity Chair* of the 13th International Symposium on Bioinformatics Research and Applications (ISBRA), Honolulu, Hawaii, May 29 - June 1, 2017.
- *Publicity Chair* of the 12th International Conference on Wireless Algorithms, Systems, and Applications, Guilin, China, June 19-21, 2017.
- *Publicity Chair* of the 35th IEEE International Performance, Computing, and Communication Conference, Las Vegas, USA, December 9-11, 2016.
- *Publicity Chair* of The 22nd International Computing and Combinatorics Conference, Ho Chi Minh City, Vietnam, August 2-4, 2016.
- *Publicity Chair* of the 9th IEEE International Conference on Social Computing and Networking, Atlanta, Georgia, USA, October 8-10, 2016.
- *Session Chair* of the 9th IEEE International Conference on Social Computing and Networking, Atlanta, Georgia, USA, October 2016.
- *Session Chair* of 52nd Annual ACM Southeast Conference, Kennesaw, Georgia, USA, March 28-29, 2014.
- *Publicity Chair* of the 9th International Conference on Wireless Algorithms, Systems, and Applications, Harbin, China, June 23-25, 2014.
- *Session Chair* of IEEE Global Communications Conference, Atlanta, Georgia, USA, December

9-13, 2013.

- *Publication Chair* of The Second ACM International Workshop on Foundations of Wireless Ad Hoc and Sensor Networking and Computing, New Orleans, LA, USA, May 18, 2009.
- *Technical Program Committee member of*
  - 2024 IEEE Annual Congress on Artificial Intelligence of Things
  - 2022 IEEE Wireless Communications and Networking Conference
  - 2021 IEEE Wireless Communications and Networking Conference
  - 2021 the 40<sup>th</sup> IEEE International Performance Computing and Communications Conference
  - 2020 the 39<sup>th</sup> IEEE International Performance Computing and Communications Conference
  - 2019 IEEE Wireless Communications and Networking Conference
  - 2019 the 38<sup>th</sup> IEEE International Performance Computing and Communications Conference
  - 2019 IEEE ICC – Ad-Hoc and Sensor Networks Symposium
  - 2018 IEEE GLOBECOM – Ad-Hoc and Sensor Networks Symposium
  - 2018 IEEE GLOBECOM – Mobile and Wireless Networks Symposium
  - 2018 IEEE ICC – Ad-Hoc and Sensor Networks Symposium
  - 2018 IEEE ICC Workshop - Information-Centric Edge Computing and Caching for Future Networks (ICECC)
  - 2018 IEEE/CIC International Conference on Communications in China (ICCC)
  - 2018 IEEE 5G World Forum (WF-5G)
  - 2017 IEEE GLOBECOM – Ad-Hoc and Sensor Networks Symposium
  - 2017 IEEE GLOBECOM – Mobile and Wireless Networks Symposium
  - 2017 IEEE the 36<sup>th</sup> International Performance Computing and Communications Conference
  - 2017 IEEE ICC – Ad-Hoc and Sensor Networks Symposium
  - 2017 IEEE ICC – Mobile and Wireless Networks Symposium
  - 2016 IEEE GLOBECOM – Communication Software, Services and Multimedia Applications Symposium
  - 2016 IEEE GLOBECOM – Ad-Hoc and Sensor Networks Symposium
  - 2016 IEEE GLOBECOM – Mobile and Wireless Networks Symposium
  - 2016 IEEE ICC – Ad-Hoc and Sensor Networks Symposium
  - 2016 IEEE International Conference on Connected Vehicles and Expo
  - 2016 IEEE International Performance Computing and Communications Conference
  - 2015 IEEE International Performance Computing and Communications Conference
  - 2015 IEEE International Conference on Connected Vehicles and Expo
  - 2015 IEEE ICC – Ad-Hoc and Sensor Networks Symposium
  - 2014 52nd Annual ACM Southeast Conference
  - 2014 IEEE International Performance Computing and Communications Conference
  - 2014 IEEE International Conference on Connected Vehicles and Expo
  - 2014 International Conference on Advanced Computing, Networking, and Informatics
  - 2013 10th IEEE International Conference on Mobile Ad hoc and Sensor Systems
  - 2013 IEEE ICC – Ad-Hoc and Sensor Networks Symposium

- 2013 IEEE GLOBECOM – Ad-Hoc and Sensor Networks Symposium
- 2013 IEEE International Conference on Connected Vehicles and Expo GC'12 – AHSN
- 2011 GC – Ad-Hoc and Sensor Networks Symposium
- 2011 IEEE International Performance Computing and Communications Conference
- 2011 International Computing and Combinatorics Conference
- 2009 IEEE International Performance Computing and Communications Conference
- *Organizer of N2WOMEN in ICDCS 2008, The 28th International Conference on Distributed Computing Systems, Beijing, China, June 17 - 20, 2008.*

#### REFEREE SERVICE FOR

- JOURNALS
  - ✧ IEEE Internet of Things Journal (IoT)
  - ✧ Computational Social Networks (CSON)
  - ✧ ACM Transactions on Sensor Networks (TOSN)
  - ✧ International Journal of Sensor Networks (IJSNET)
  - ✧ Transactions on Emerging Telecommunications Technologies (ETT)
  - ✧ IEEE Transactions on Parallel and Distributed Systems (TPDS)
  - ✧ IEEE Transactions on Wireless Communications (TWC)
  - ✧ International Journal of Distributed Sensor Networks (IJDSN)
  - ✧ International Journal of Advancements in Computing Technology (IJACT)
  - ✧ International Journal of Information and Communication Technology
  - ✧ Journal on Wireless Communication and Networking (JWCN)
  - ✧ Journal of Computer Systems, Networks, and Communications (JCSNC)
  - ✧ Journal of Cluster Computing
  - ✧ The Journal of Computers
  - ✧ Wireless Communications and Mobile Computing (WCM)
  - ✧ Computational Social Networks
  - ✧ Ad Hoc & Sensor Wireless Networks
  - ✧ Ad Hoc Networks
  - ✧ Sensors
  - ✧ Wireless Networks
  - ✧ Advances in Information Sciences and Service Sciences (AISS)
  - ✧ Mobile Networks and Applications
  - ✧ Theoretical Computer Science
  - ✧ Pervasive and Mobile Computing
  - ✧ INFORMS Journal on Computing
- INTERNATIONAL CONFERENCES
  - ✧ 40<sup>th</sup> IEEE International Performance Computing and Communications Conference, Austin, Texas, USA, October 29-31, 2021.
  - ✧ IEEE Wireless Communications and Networking Conference, Nanjing, China, March 29 – April 1, 2021.
  - ✧ 39<sup>th</sup> IEEE International Performance Computing and Communications Conference, Austin, Texas, USA, November 6-8, 2020.



- ✧ 38<sup>th</sup> IEEE International Performance Computing and Communications Conference, London, UK, October 29-31, 2019.
- ✧ IEEE International Conference on Communications – Ad-Hoc and Sensor Networks Symposium, Shanghai, China, May 20-24, 2019.
- ✧ IEEE Wireless Communications and Networking Conference, Marrakech, Morocco, April 15-19, 2019.
- ✧ 37<sup>th</sup> IEEE International Performance Computing and Communications Conference, Orlando, Florida, USA, November 17-19, 2018.
- ✧ IEEE/CIC International Conference on Communications in China, Beijing, China, August 16-18, 2018.
- ✧ IEEE GLOBECOM – Ad-Hoc and Sensor Networks Symposium, Abu Dhabi, UAE, December 9-13, 2018.
- ✧ IEEE 5G World Forum, Santa Clara, California, USA, July 9-11, 2018.
- ✧ IEEE International Conference on Communications - Information-Centric Edge Computing and Caching for Future Networks, Kansas City, USA, May 20-24, 2018.
- ✧ IEEE International Conference on Communications - Ad-Hoc and Sensor Networks Symposium, Kansas City, USA, May 20-24, 2018.
- ✧ 36<sup>th</sup> IEEE International Performance Computing and Communications Conference, San Diego, California, USA, December 10-12, 2017.
- ✧ IEEE GLOBECOM – Ad-Hoc and Sensor Networks Symposium, Singapore, December 48, 2017.
- ✧ IEEE GLOBECOM – Mobile and Wireless Networking, Singapore, December 48, 2017.
- ✧ IEEE International Conference on Communications - Ad Hoc and Sensor Networking, Paris, France, May 21-25, 2017.
- ✧ IEEE International Conference on Communications – Mobile and Wireless Networking, Paris, France, May 21-25, 2017.
- ✧ IEEE International Conference on Communications - Ad Hoc and Sensor Networking, Kuala Lumpur, Malaysia, May 23-27, 2016.
- ✧ IEEE International Conference on Communications – Mobile and Wireless Networking, Kuala Lumpur, Malaysia, May 23-27, 2016.
- ✧ The 35<sup>th</sup> IEEE International Performance Computing and Communications Conference, Las Vegas, Nevada, USA, December 9-11, 2016.
- ✧ The 21<sup>st</sup> International Conference on Database Systems for Advanced Applications, Dallas, TX, USA, April 16-19, 2016.
- ✧ IEEE Global Communications Conference - Ad Hoc and Sensor Networking, Washington, DC USA, December 4-8, 2016.
- ✧ IEEE Global Communications Conference - Mobile and Wireless Networking, Washington, DC USA, December 4-8, 2016.
- ✧ The 34<sup>th</sup> IEEE International Performance Computing and Communications Conference, Nanjing, China, December 14-16, 2015.
- ✧ IEEE International Conference on Communications - Ad Hoc and Sensor Networking, London, UK, June 8-12, 2015.
- ✧ The 3<sup>rd</sup> International Conference on Connected Vehicles and Expo, Messe, Wien, Vienna, Austria, November 3-7, 2014.

- ✧ IEEE International Conference on Computer Communications, Toronto, Canada, April 27-May 2, 2014.
- ✧ The 33rd IEEE International Performance Computing and Communications Conference, Austin, Texas, USA, December 5-7, 2014.
- ✧ The 23rd International Conference on Computer Communications and Networks, Shanghai, China, August 4-7, 2014.
- ✧ The 10th IEEE International Conference on Mobile Ad-hoc and Sensor Systems, Hangzhou, China, October 14-16, 2013.
- ✧ International Conference on Connected Vehicles and Expo, Las Vegas, Nevada, USA, December 2-6, 2013.
- ✧ IEEE International Conference on Communications - Ad Hoc and Sensor Networking, Budapest, Hungary, June 9-13, 2013.
- ✧ IEEE Global Communications Conference - Ad Hoc and Sensor Networking, Atlanta, Georgia, USA, December 9-13, 2013.
- ✧ IEEE Global Communications Conference 2012 - Ad Hoc and Sensor Networking Symposium Program, Anaheim, California, USA, December 3-7, 2012.
- ✧ The 1<sup>st</sup> International Conference on Connected Vehicles, Beijing, China, December 12-16, 2012.
- ✧ IEEE International Performance Computing and Communications Conference, Austin, Texas, USA, December 1-3, 2012.
- ✧ IEEE GLOBECOM 2011 – Ad-hoc and Sensor Networking, Houston, Texas, USA, December 5-9, 2011.
- ✧ The 5th Annual International Conference on Combinatorial Optimization and Applications, Zhangjiajie, China, August 4-6, 2011.
- ✧ The 17th International Computing & Combinatorics Conference, Dallas, Texas, USA, August 14-16, 2011.
- ✧ The 30th IEEE International Performance Computing and Communications Conference, Orlando, Florida, USA, November 17-19, 2011.
- ✧ IEEE Wireless Communications & Networking conference, Australia, 18-21 April 2010.
- ✧ 2010 American Control Conference, Baltimore, Maryland, USA, June 30 - July 2, 2010.
- ✧ IEEE Wireless Communications & Networking conference, Australia, 18-21 April 2010.
- ✧ 28th IEEE International Performance Computing and Communications Conference, Phoenix, Arizona, USA, December 14-16, 2009.
- ✧ The International Conference on Wireless Algorithms, Systems and Applications, Boston, MA, USA, Aug 16, 2009 - Aug 18, 2009.
- ✧ The Fifth International Conference on Mobile Ad-hoc and Sensor Networks, Wu Yi Mountain, China, 14-16 December 2009.
- ✧ 6th IEEE International Conference on Mobile Ad-hoc and Sensor Systems, Macau SAR, China, October 12-15, 2009.
- ✧ IEEE Globecom 2009 Wireless Networking Symposium, Hawaii, USA, November 30 - December 4, 2009.
- Magellan proposals

- ✧ Review 4 Magellan proposals, Fall 2019
- ✧ Review 4 Magellan proposals, Fall 2016
- ✧ Review 2 Magellan proposals, Fall 2015
- ✧ Review 4 Magellan proposals, Spring 2015

## GRANTS & AWARDS

- Teaching and Productivity Scholarship (TAPS), USC Upstate, 2020. (\$395)
- Teaching and Productivity Scholarship (TAPS), USC Upstate, 2016-2017. (\$1012)
- Teaching and Productivity Scholarship (TAPS), USC Upstate, 2013-2014. (\$2000)
- PI, Scholarly Startup, USC Upstate, July 1, 2014 – June 30, 2015. (\$5000)
- PI, Intelligent Wireless Sensor Networking Monitoring System, Research Initiative for Summer Engagement (RISE), USC Upstate, May 15, 2014- December 31, 2014. (\$4995)
- Technology Request for updating the network lab, USC Upstate, Feb 2014. (\$6266)
- Mentor, Magellan Scholar proposal: Intelligent Wireless Sensor Network Monitoring System, May 2015. (\$3000)
- Faculty Development Research Grant, Troy University, 2012.
- Dissertation Grant Award, Georgia State University, 2010.
- Outstanding Graduate Student Award, Georgia State University, 2010.
- Best Paper Award, MSN 2009.
- Fellowship of Networking Networking Women (N<sup>2</sup> Women), 2008.
- Travel grant from WASA 2009, International Conference on Wireless Algorithms, Systems and Applications, Boston MA, USA, August 16-18, 2009.

## SERVICE

### Division Committees

- MCS Peer Review 2018-2019
- Search Committee of one CS Assistant Professor Position, 2023
- Chair of Search Committee of one CS Associate/Assistant Professor Position, 2023
- Search Committee of one CS Assistant Professor Position, 2023
- Chair of Search Committee of one CS Assistant Professor Position, 2022
- Search Committee of one CS Assistant Professor Position, 2021
- Search Committee of one Instructor Position, 2019
- Search Committee of two Math Assistant Professor Positions, 2018
- Search Committee of one Instructor Positions, 2018
- Search Committee of two CS Assistant Professor Positions, 2017
- Search Committee of two Instructor Positions, 2017
- Mentor of new faculty, 2018-2020
- Mentor of new faculty, 2022-2024
- Search Committee of an Assistant Professor Position, 2017
- Search Committee of Instructor Position, 2017
- Search Committee of Instructor Position, 2013

### University Committees

- General Education (Aug 2018 – May 2024)
- Faculty Senate (Aug 2017 – May 2018)
- Faculty Senate (Jan 2019 – May 2019)
- Faculty Advisory Committee (Aug 2017 – May 2018)
- University Assessment Committee (May 2013 – Aug 2015).
- Faculty Senate (Aug 16, 2015 – Aug 15, 2018)
- Faculty Advisory Committee (Aug 2016 – July 2017)

### Other University Services

- Peer Observation of Teaching for one faculty, 2023
- IES Peer Review Committee 2023-2024
- JCBC Peer Review Committee 2018-2019
- Search Committee of one Assistant Professor Position of Chemistry, 2018
- Peer Observation of Teaching for one faculty, 2020
- Organize Dual Degree Program Orientation, Feb 22, 2017

### Community Service

- Judge of Piedmont Region III Science Fair, Spring 2024.
- Judge of Piedmont Region III Science Fair, Spring 2021.
- Judge of Piedmont Region III Science Fair, Spring 2020.
- Judge of Piedmont Region III Science Fair, Spring 2019.
- Judge of Piedmont Region III Science Fair, Spring 2018
- Judge of Piedmont Region III Science Fair, Spring 2015
- Judge of Piedmont Region III Science Fair, Spring 2013
- Judge of Duke Energy Invention Convention, 2017
- Judge of Duke Energy Invention Convention, 2016
- Judge of Duke Energy Invention Convention, 2015