



College of  
Science and Technology  
TEMPLE UNIVERSITY

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**Employment**    *Temple University*    Philadelphia, Pennsylvania  
Professor (7/2019-), Chair (7/2024-), Director of Graduate Programs (7/2020-6/2024), Department of Computer and Information Sciences

*University of North Carolina at Charlotte*    Charlotte, North Carolina  
Adjunct Professor (8/2019-7/2022), Professor/Associate Professor/Assistant Professor (7/2015-6/2019, 7/2010-6/2015, 8/2004-6/2010), Senior Associate Chair /Associate Chair (5/2018-6/2019, 8/2016-4/2018), CS Ph.D. Track Coordinator (1/2013-6/2019), Department of Computer Science

*Argonne's National Laboratory*    Argonne, Illinois  
Guest Faculty (6-8/2008), Mathematics and Computer Science Division

*Lawrence Berkeley National Laboratory*    Berkeley, California  
Student Assistant (5-8/2002, 6-8/2003), National Energy Research Scientific Computing Center (NERSC), Computational Research Division

**Education**    *Illinois Institute of Technology*    Chicago, Illinois  
Department of Computer Science (2000-2004)    Ph.D., May 2004

*Tsinghua University*    Beijing, China  
Department of Computer Science & Technology (1993-2000)    M.Eng., Jun. 2000  
B.Eng., Jun. 1998

**Research Interests**    Wireless networking, smart sensing, distributed computing, privacy and security

**Representative Publications (300+ peer-reviewed papers, h-index 59 and 16,000+ citations<sup>1</sup>)**

Selected Journal Papers

- 79    X. Wei, L. Fan, Y. Guo, Y. Gong, Z. Han, Y. Wang, "Hybrid Quantum-Classical Benders' Decomposition for Federated Learning Scheduling in Distributed Networks", *IEEE Trans.*

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<sup>1</sup> Based on Google Scholar Citation (<http://scholar.google.com/citations?user=ouPBv-wAAAAJ>)

on *Network Science and Engineering*, to appear.

- 78 Y. Xie, F. Li, Y. Wu, Y. Wang, "User Authentication on Earable Devices via Bone-Conducted Occlusion Sounds", *IEEE Trans. on Dependable & Secure Comp.*, to appear.
- 77 X. Liu, F. Li, Y. Cao, Y. Wang, "BrailleReader: Braille Character Recognition Using Wearable Motion Sensor", *IEEE Trans. on Mobile Computing*, to appear.
- 76 Y. Li, F. Li, S. Yang, C. Zhang, L. Zhu, Y. Wang, "A Cooperative Analysis to Incentivize Communication-Efficient Federated Learning", *IEEE Trans. on Mobile Computing*, to appear.
- 75 Q. Zeng, F. Li, Z. Zhao, Y. Li, Y. Wang, "AcouWrite: Acoustic-based Handwriting Recognition on Smartphones", *IEEE Trans. on Mobile Computing*, to appear.
- 74 X. Wei, K. Ye, X. Shi, C.-Z. Xu, Y. Wang, "Joint Participant and Learning Topology Selection for Federated Learning in Edge Clouds", *IEEE Trans. on Parallel and Distributed Systems*, 35(8): 1456-1468, August 2024
- 73 Y. Cao, F. Li, H. Chen, X. Liu, S. Zhai, S. Yang, Y. Wang, "Live Speech Recognition via Earphone Motion Sensors", *IEEE Trans. on Mobile Computing*, 23(6): 7284-7300, June 2024.
- 72 Y. Xie, F. Li, Y. Wang, "FingerSlid: Towards Finger-sliding Continuous Authentication on Smart Devices via Vibration", *IEEE Trans. on Mobile Computing*, 23(5): 6045-6059, May 2024.
- 71 Z. Zhao, F. Li, Y. Xie, Y. Wu, Y. Wang, "BSMonitor: Noise-Resistant Bowel Sound Monitoring via Earphones", *IEEE Trans. on Mobile Computing*, 23(4): 3213-3227, April 2024.
- 70 Y. Cao, F. Li, H. Chen, X. Liu, Y. Wang, "Tongue-Jaw Movement Recognition Through Acoustic Sensing on Smartphones", *IEEE Trans. on Mobile Computing*, 23(1): 879-894, January 2024.
- 69 Y. Cao, F. Li, H. Chen, X. Liu, S. Yang, Y. Wang, "Leveraging Wearables for Assisting the Elderly with Dementia in Handwashing", *IEEE Trans. on Mobile Computing*, 22(11): 6554-6570, November 2023.
- 68 Y. Li, F. Li, L. Chen, L. Zhu, P. Zhou, Y. Wang, "Power of Redundancy: Surplus Client Scheduling for Federated Learning against User Uncertainties", *IEEE Trans. on Mobile Computing*, 22(9): 5449-5462, September 2023.
- 67 H. Liang, Q. Sang, C. Hu, D. Cheng, X. Zhou, D. Wang, W. Bao, Y. Wang, "DNN Surgery: Accelerating DNN Inference on the Edge through Layer Partitioning", *IEEE Trans. on Cloud Computing*, 11(3): 3111-3125, July-September 2023.
- 66 S. Yang, F. Li, Z. Zhou, X. Chen, Y. Wang, X. Fu, "Online Control of Service Function Chainings Across Geo-Distributed Datacenters", *IEEE Trans. on Mobile Computing*, 22(6): 3558-3571, June 2023.
- 65 Y. Cao, F. Li, Q. Zhang, S. Yang, Y. Wang, "Towards Nonintrusive and Secure Mobile Two-Factor Authentication on Wearables", *IEEE Trans. on Mobile Computing*, 22(5): 3046-3061, May 2023.
- 64 Y. Xie, F. Li, Y. Wu, Y. Wang, "HearFit+: Personalized Fitness Monitoring via Audio Signals on Smart Speakers", *IEEE Trans. on Mobile Computing*, 22(5): 2756-2770, May 2023.
- 63 N. He, S. Yang, F. Li, S. Trajanovski, L. Zhu, Y. Wang, X. Fu, "Leveraging Deep Reinforcement Learning with Attention Mechanism for Virtual Network Function Placement and Routing", *IEEE Transactions on Parallel and Distributed Systems*, 34(4):

1186-1201, April 2023.

- 62 X. Wei, ABM M. Rahman, D. Cheng, Y. Wang “Joint Optimization across Timescales: Resource Placement and Task Dispatching in Edge Clouds”, *IEEE Transactions on Cloud Computing*, 11(1): 730-744, Jan-March 2023.
- 61 D. Cheng, Y. Wang, D. Dai, “Dynamic Resource Provisioning for Iterative Workloads on Apache Spark”, *IEEE Transactions on Cloud Computing*, 11(1): 639-652, Jan-March 2023.
- 60 X. Wei, Y. Wang, “Popularity-based Data Placement with Load Balancing in Edge Computing”, *IEEE Transactions on Cloud Computing*, 11(1): 397-411, Jan-March 2023.
- 59 Y. Cao, F. Li, X. Liu, S. Yang, Y. Wang, “Towards Reliable Driver Drowsiness Detection Leveraging Wearables”, *ACM Transactions on Sensor Networks*, 19(2): 39, February 2023.
- 58 Y. Wu, F. Li, Y. Xie, Y. Wang, Z. Yang, “SymListener: Detecting Respiratory Symptoms via Acoustic Sensing in Driving Environments”, *ACM Trans. on Sensor Networks*, 19(1): 3, January 2023.
- 57 J. Hou, H. Liu, Y. Liu, Y. Wang, P.-J. Wan, X.-Y. Li, “Model Protection: Real-time Privacy-preserving Inference Service for Model Privacy at the Edge”, *IEEE Transactions on Dependable and Secure Computing*, 19(6): 4270-4284, November - December 2022.
- 56 Y. Cao, F. Li, H. Chen, X. Liu, L. Zhang, Y. Wang, “Guard Your Heart Silently: Continuous Electrocardiogram Monitoring with Wrist-worn Motion Sensor”, *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*, 6(3):103, September 2022.
- 55 J. Wang, F. Li, S. Yang, Y. Li, Y. Wang, “A Real-time Bike Trip Planning Policy with Self-Organizing Bike Redistribution”, *IEEE Trans. on Intelligent Transportation Systems*, 23(8): 10646-10661, August 2022.
- 54 Y. Xie, F. Li, Y. Wu, S. Yang, Y. Wang, “HearSmoking: Smoking Detection in Driving Environment via Acoustic Sensing on Smartphones”, *IEEE Trans. on Mobile Computing*, 21(8): 2847 - 2860, August 2022.
- 53 Y. Wu, Y. Xie, F. Li, S. Yang, Y. Wang, “HDSpeed: Hybrid Detection of Vehicle Speed via Acoustic Sensing on Smartphones”, *IEEE Trans. on Mobile Computing*, 21(8): 2833 - 2846, August 2022.
- 52 Y. Liu, T. Feng, M. Peng, J. Guan, Y. Wang, “DREAM: Online Control Mechanisms for Data Aggregation Error Minimization in Privacy-Preserving Crowdsensing”, *IEEE Trans. on Dependable and Secure Computing*, 19(2): 1266-1279, March-April 2022.
- 51 D. Yang, D. Cheng, W. Rang, Y. Wang, “Joint Optimization of MapReduce Scheduling and Network Policy in Hierarchical Data Centers”, *IEEE Trans. on Cloud Computing*, 10(1): 461-473, January-March 2022.
- 50 Y. Li, F. Li, S. Yang, Y. Wu, H. Chen, K. Sharif, Y. Wang, “MP-Coopetition: Competitive and Cooperative Mechanism for Multiple Platforms in Mobile Crowd Sensing”, *IEEE Trans. on Services Computing*, 14(6): 1864-1876, November-December 2021.
- 49 W. Rang, D. Yang, D. Cheng, Y. Wang, “Data Life Aware Model Updating Strategy for Stream-based Online Deep Learning,” *IEEE Trans. on Parallel and Distributed Systems*, 32(10): 2571-2581, October 2021.
- 48 G. Li, Q. Zhao, Y. Wang, T. Qiu, K. Xie, L. Feng, “A Blockchain-based Decentralized Framework for Fair Data Processing”, *IEEE Trans. on Network Science and Engineering*, 8(3): 2301-2315, July-September 2021.
- 47 Y. Xie, F. Li, Y. Wu, S. Yang, Y. Wang, “Real-Time Detection for Drowsy Driving via Acoustic Sensing on Smartphones”, *IEEE Trans. on Mobile Computing*, 20(8): 2671 -

2685, August 2021.

- 46 Y. Li, F. Li, S. Yang, P. Zhou, L. Zhu, Y. Wang, “Three-stage Stackelberg Long-term Incentive Mechanism and Monetization for Mobile Crowdsensing: An Online Learning Approach”, *IEEE Trans. on Network Science and Engineering*, 8(2): 1385-1398, April-June 2021.
- 45 T. Li, Z. Qiu, L. Cao, D. Cheng, W. Wang, X. Shi, Y. Wang, “Privacy-Preserving Participant Grouping for Mobile Social Sensing over Edge Clouds”, *IEEE Trans. on Network Science and Engineering*, 8(2): 865-880, April-June 2021.
- 44 S. Yang, F. Li, S. Trajanovski, X. Chen, Y. Wang, X. Fu, “Delay-Aware Virtual Network Function Placement and Routing in Edge Clouds”, *IEEE Trans. on Mobile Computing*, 20(2): 445-459, Feb 2021.
- 43 H. Chen, F. Li, W. Du, S. Yang, M. Conn, Y. Wang, “Listen to Your Fingers: User Authentication based on Geometry Biometrics of Touch Gesture”, *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*, 4(3):75, September 2020.
- 42 T. Li, T. Jung, Z. Qiu, H. Li, L. Cao, Y. Wang, “Scalable Privacy-Preserving Participant Selection for Mobile Crowdsensing Systems: Participant Grouping and Secure Group Bidding”, *IEEE Trans. on Network Science & Engineering*, 7(2): 855-868, April-June 2020.
- 41 I. Alam, K. Sharif, F. Li, Z. Latif, M. M. Karim, S. Biswas, B. Nour, Y. Wang, “A Survey of Network Virtualization Techniques for Internet of Things Using SDN and NFV”, *ACM Computing Surveys*, 53(2): 35, April 2020.
- 40 H. Li, T. Li, W. Wang, Y. Wang, “Dynamic Participant Selection for Large-Scale Mobile Crowd Sensing”, *IEEE Trans. on Mobile Computing*, 18(12): 2842–2855, Dec 2019.
- 39 Y. Liu, L. Hao, Z. Liu, K. Sharif, Y. Wang, S. Das, “Mitigating Interference via Power Control for Two-Tier Femtocell Networks: A Hierarchical Game Approach”, *IEEE Trans. on Vehicular Technology*, 68(7): 7194-7198, July 2019.
- 38 A. Laha, B. Yin, Y. Cheng, L. X. Cai, Y. Wang, “Game Theory Based Charging Solution for Networked Electric Vehicles: A Location-Aware Approach”, *IEEE Trans. on Vehicular Technology*, 68(7): 6352-6364, July 2019.
- 37 J. Qian, X.-Y. Li, T. Jung, Y. Fan, Y. Wang, S. Tang, “Social Network De-Anonymization: More Adversarial Knowledge, More Users Re-Identified?”, *ACM Trans. on Internet Technology*, 19(3): 33, May 2019.
- 36 Q. Zhang, F. Li, S. Yang, Y. Wang, “W3W: Energy Management of Hybrid Energy Supplied Sensors for Internet of Things”, *ACM Trans. on Sensor Net.*, 15(1):10, Feb 2019.
- 35 F. Li, X. Song, H. Chen, X. Li, Y. Wang, “Hierarchical Routing for Vehicular Ad Hoc Networks via Reinforcement Learning”, *IEEE Trans. on Vehicular Technology*, 68(2): 1852-1865, Feb 2019.
- 34 D. Cheng, X. Zhou, Z. Ding, Y. Wang, M. Ji, “Heterogeneity Aware Workload Management in Distributed Sustainable Datacenters,” *IEEE Trans. on Parallel and Distributed Systems*, 30(2): 375-387, February 2019.
- 33 H. Chen, F. Li, X. Hei, Y. Wang, “CrowdX: Enhancing Automatic Construction of Indoor Floorplan with Opportunistic Encounters”, *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*, 2(4):159, Dec. 2018.
- 32 D. Cheng, X. Zhou, Y. Wang, C. Jiang, “Adaptive Scheduling Parallel Jobs with Dynamic Batching in Spark Streaming,” *IEEE Trans. on Parallel and Distributed Systems*, 29(12): 2672-2685, Dec 2018.

- 31 Z. Liu, S. Wang, Y. Liu, Y. Wang, "Secrecy Transmission for Femtocell Networks against External Eavesdropper", *IEEE Trans. on Wireless Commu.*, 17(8): 5016-5028, Aug 2018.
- 30 J. Hou, X.-Y. Li, T. Jung, Y. Wang, D. Zheng, "CASTLE: Enhancing the Utility of Inequality Query Auditing without Denial Threats", *IEEE Trans. on Information Forensics & Security*, 13(7): 1656-1669, July 2018.
- 29 L. Chang, J. Xiong, J. Wang, X. Chen, Y. Wang, Z. Tang, D. Fang, "RF-Copybook: A Millimeter Level Calligraphy Copybook based on Commodity RFID", *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*, 1(4): 128, Dec 2017.
- 28 Y. Zhan, Y. Xia, Y. Li, F. Li, Y. Wang, "Incentive-Aware Time-Sensitive Data Collection in Mobile Opportunistic Crowdsensing", *IEEE Trans. on Vehicular Technology*, 66(9): 7849-7861, September 2017.
- 27 B. Guo, Y. Ouyang, C. Zhang, J. Zhang, Z. Yu, D. Wu, Y. Wang, "CrowdStory: Fine-Grained Event Storyline Generation by Fusion of Multi-Modal Crowdsourced Data", *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*, 1(3): 55, Sept. 2017.
- 26 L. Chang, X. Chen, Y. Wang, D. Fang, J. Wang, T. Xing, Z. Tang, "FitLoc: Fine-grained and Low-cost Device-free Localization for Multiple Targets over Various Areas", *IEEE/ACM Trans. on Networking*, 25(4): 1994-2007, August 2017.
- 25 F. Li, H. Jiang, H. Li, Y. Cheng, Y. Wang, "SEBAR: Social Energy BAsed Routing for Mobile Social Delay Tolerant Networks", *IEEE Trans. on Vehicular Technology*, 66(8): 7195-7206, August 2017.
- 24 B. Guo, H. Chen, Q. Han, Z. Yu, D. Zhang, Y. Wang, "Worker-Contributed Data Utility Measurement for Visual Crowdsensing Systems", *IEEE Trans. on Mobile Computing*, 16(8): 2379-2391, August 2017.
- 23 Y. Liu, H. Wu, Y. Xia, Y. Wang, F. Li, P. Yang, "Optimal Online Data Dissemination for Resource Constrained Mobile Opportunistic Networks", *IEEE Trans. on Vehicular Technology*, 66(6): 5301-5315, June 2017.
- 22 H. Du, J. Han, X. Jian, T. Jung, C. Bo, Y. Wang, X.-Y. Li, "Martian: Message Broadcast via LED Lights to Heterogeneous Smartphones", *IEEE Journal on Selected Areas in Communications*, 35(5): 1154-1162, May 2017.
- 21 F. Li, Z. Yin, S. Tang, Y. Cheng, Y. Wang, "Optimization Problems in Throwbox-Assisted Delay Tolerant Networks: Which Throwboxes to Activate? How Many Active Ones I Need?", *IEEE Trans. on Computers*, 65(5): 1663-1670, April 2016.
- 20 B. Guo, Z. Wang, Z. Yu, Y. Wang, N. Yen, R. Huang, X. Zhou, "Mobile Crowd Sensing and Computing: The Review of an Emerging Human-Powered Sensing Paradigm", *ACM Computing Surveys*, 48(1):7, August 2015.
- 19 F. Li, S. Chen, M. Huang, Z. Yin, C. Zhang, Y. Wang, "Reliable Topology Design in Time-Evolving Delay-Tolerant Networks with Unreliable Links", *IEEE Trans. on Mobile Computing*, 14(6): 1301-1314, June 2015.
- 18 M. Huang, S. Chen, Y. Zhu, Y. Wang, "Topology Control for Time-Evolving and Predictable Delay-Tolerant Networks", *IEEE Trans. on Computers*, 62(11):2308-2321, Nov. 2013.
- 17 Y. Zhu, M. Huang, S. Chen, Y. Wang, "Energy-Efficient Topology Control in Cooperative Ad Hoc Networks", *IEEE Trans. on Parallel and Distributed Systems*, 23(8):1480-1491, August 2012.
- 16 S. Chen, M. Huang, S. Tang, Y. Wang, "Capacity of Data Collection in Arbitrary Wireless

- Sensor Networks”, *IEEE Trans. on Parallel & Distributed Systems*, 23(1):52-60, Jan. 2012.
- 15 C. Wu, G. S. Tewolde, W. Sheng, B. Xu, Y. Wang, “Distributed Multi-Actuator Control for Workload Balancing in Wireless Sensor and Actuator Networks”, *IEEE Trans. on Automatic Control*, 56(10):2462-2467, October 2011.
  - 14 Y. Wang, X.-Y. Li, W.-Z. Song, M. Huang, T. A. Dahlberg, "Energy-Efficient Localized Routing in Random Multihop Wireless Networks", *IEEE Trans. on Parallel and Distributed Systems*, 22(8):1249-1257, August 2011.
  - 13 X.-Y. Li, Y. Wang, Y. Wang, "Complexity of Data Collection, Aggregation, and Selection for Wireless Sensor Networks", *IEEE Trans. on Computers*, 60(3):386-399, March 2011.
  - 12 X.-Y. Li, Y. Wang, H. Chen, X. Chu, Y. Wu, Y. Qi, "Reliable and Energy Efficient Routing for Static Wireless Ad Hoc Networks with Unreliable Links", *IEEE Trans. on Parallel and Distributed Systems*, 20(10):1408-1421, October 2009.
  - 11 Y. Wang, L. Cao, T. A. Dahlberg, F. Li, X. Shi, "Self-Organizing Fault Tolerant Topology Control in Large-Scale Three-Dimensional Wireless Networks", *ACM Trans. on Autonomous and Adaptive Systems*, 4(3):19, July 2009.
  - 10 Y. Wang, W. Wang, X.-Y. Li, W.-Z. Song, "Interference-Aware Joint Routing and TDMA Link Scheduling for Static Wireless Networks", *IEEE Trans. on Parallel and Distributed Systems*, 19(12):1709-1726, December 2008.
  - 9 Y. Wang, X.-Y. Li, Q. Zhang, "Efficient Algorithms for p-Self-Protection Problem in Static Wireless Sensor Network", *IEEE Trans. on Parallel and Distributed Systems*, 19(10):1426-1438, October 2008.
  - 8 W. Wang, X.-Y. Li, Y. Wang, Z. Sun, "Designing Multicast Protocols for Non-Cooperative Networks", *IEEE J. on Selected Areas in Communications*, 26(7):1238-1249, Sept 2008.
  - 7 F. Li, Y. Wang, "Routing in Vehicular Ad Hoc Networks: A Survey", *IEEE Vehicular Technology Magazine*, 2(2):12-22, June 2007. **[IEEE Vehicular Technology Society 2024 Best Magazine Paper Award]**
  - 6 Y. Wang, W. Wang, X.-Y. Li, "Efficient Distributed Low-Cost Backbone Formation for Wireless Networks", *IEEE Trans. on Parallel & Dist. Sys.*, 17(7):681-693, July 2006.
  - 5 X.-Y. Li, W.-Z. Song, Y. Wang, "Localized Topology Control for Heterogeneous Wireless Sensor Networks", *ACM Trans. on Sensor Networks*, 2(1):129-153, Feb. 2006.
  - 4 X.-Y. Li, Y. Wang, W.-Z. Song, "Applications of k-Local MST for Topology Control and Broadcasting in Wireless Ad Hoc Networks", *IEEE Trans. on Parallel and Distributed Systems*, 15(12):1057-1069, Dec 2004.
  - 3 X.-Y. Li, I. Stojmenovic, Y. Wang, "Partial Delaunay Triangulation and Degree Limited Localized Bluetooth Multihop Scatternet Formation", *IEEE Trans. on Parallel and Distributed Systems*, 15(4):350-361, April 2004.
  - 2 X.-Y. Li, G. Calinescu, P.-J. Wan, Y. Wang, "Localized Delaunay Triangulation with Applications in Wireless Ad Hoc Networks", *IEEE Trans. on Parallel and Distributed Systems*, 14(10):1035-1047, October 2003.
  - 1 K. Alzoubi, X.-Y. Li, Y. Wang, P.-J. Wan, O. Frieder, "Geometric Spanners for Wireless Ad Hoc Networks", *IEEE Trans. on Parallel & Distributed Sys.*, 14(4):408-421, Apr. 2003.

#### Selected Conference Papers

- 57 X. Wei, L. Fan, Y. Guo, Z. Han, Y. Wang, “Optimizing Satellite-based Entanglement Distribution in Quantum Networks via Quantum-Assisted Approaches”, *Proc. of IEEE International Conference on Quantum Communications, Networking, and Computing*

(QCNC), 2024.

- 56 X. Wei, J. Liu, L. Fan, Y. Guo, Z. Han, Y. Wang, “Hybrid Quantum-Classical Computing via Dantzig-Wolfe Decomposition for Integer Linear Programming”, *Proc. of IEEE International Conference on Computer Communications and Networks (ICCCN)*, 2024.
- 55 Z. Zhao, L. Fan, Y. Guo, Y. Wang Z. Han, L. Hanzo, “QAOA-Assisted Benders’ Decomposition for Mixed-integer Linear Programming”, *Proc. of IEEE International Conference on Communications (ICC)*, 2024.
- 54 X. Liu, F. Li, Y. Cao, S. Zhai, S. Yang, Y. Wang, “PPGSpotter: Personalized Free Weight Training Monitoring Using Wearable PPG Sensor”, *Proc. of IEEE Conference on Computer Communications (INFOCOM)*, 2024.
- 53 Z. Zhao, F. Li, Y. Xie, H. Xie, K. Zhang, L. Zhang, Y. Wang, “HearBP: Hear Your Blood Pressure via In-ear Acoustic Sensing Based on Heart Sounds”, *Proc. of IEEE Conference on Computer Communications (INFOCOM)*, 2024.
- 52 J. Liu, X. Wei, X. Liu, H. Gao, Y. Wang, “Group-based Hierarchical Federated Learning: Convergence, Group Formation, and Sampling”, *Proc. of International Conference on Parallel Processing (ICPP)*, 2023.
- 51 X. Wei, L. Fan, Y. Guo, Y. Gong, Z. Han, Y. Wang, “Quantum Assisted Scheduling Algorithm for Federated Learning in Distributed Networks”, *Proc. of IEEE International Conference on Computer Communications and Networks (ICCCN)*, 2023.
- 50 Z. Zhao, F. Li, Y. Xie, Y. Wang, “WakeUp: Fine-Grained Fatigue Detection Based on Multi-Information Fusion on Smart Speakers”, *Proc. of IEEE Conference on Computer Communications (INFOCOM)*, 2023.
- 49 Y. Cao, F. Li, H. Chen, X. Liu, S. Duan, Y. Wang, “I Can Hear You Without a Microphone: Live Speech Eavesdropping from Earphone Motion Sensors”, *Proc. of IEEE Conference on Computer Communications (INFOCOM)*, 2023.
- 48 X. Wei, J. Liu, Y. Wang, “Joint Participant Selection and Learning Scheduling for Multi-Model Federated Edge Learning”, *Proc. of IEEE International Conference on Mobile Ad-Hoc and Smart Systems (MASS)*, 2022.
- 47 Y. Xie, F. Li, Y. Wu, H. Chen, Z. Zhao, Y. Wang, “TeethPass: Dental Occlusion-based User Authentication via In-ear Acoustic Sensing”, *Proc. of IEEE Conference on Computer Communications (INFOCOM)*, 2022.
- 46 Y. Cao, H. Chen, F. Li, Y. Wang, “Crisp-BP: Continuous Wrist PPG-based Blood Pressure”, *Proc. of ACM Annual International Conference on Mobile Computing and Networking (MobiCom)*, 2021.
- 45 X. Wei, Y. Wang, “Joint Resource Placement and Task Dispatching in Mobile Edge Computing across Timescales”, *Proc. of IEEE/ACM International Symposium on Quality of Service (IWQoS)*, 2021.
- 44 W. Xu, X. Ji, C. Zhang, B. Zhang, Y. Wang, X. Wang, Y. Wang, J. Wang, B. Liu, “PQR: Prediction-supported Quality-aware Routing for Uninterrupted Vehicle Communication”, *Proc. of IEEE/ACM International Symposium on Quality of Service (IWQoS)*, 2021.
- 43 Y. Cao, H. Chen, F. Li, Y. Wang, “CanalScan: Tongue-Jaw Movement Recognition via Ear Canal Deformation Sensing”, *Proc. of IEEE Conference on Computer Communications (INFOCOM)*, 2021.
- 42 Y. Xie, F. Li, Y. Wu, Y. Wang, “HearFit: Fitness Monitoring on Smart Speakers via Active Acoustic Sensing”, *Proc. of IEEE Conf. on Computer Comm. (INFOCOM)*, 2021.

- 41 Y. Cao, H. Chen, F. Li, S. Yang, Y. Wang, "AWash: Handwashing Assistance for the Elderly with Dementia via Wearables", *Proc. of IEEE Conference on Computer Communications (INFOCOM)*, 2021.
- 40 Q. Zhang, Y. Cao, H. Chen, F. Li, S. Yang, Y. Wang, Z. Yang, Y. Liu, "airFinger: Micro Finger Gesture Recognition via NIR Light Sensing for Smart Devices", *Proc. of IEEE International Conference on Distributed Computing (ICDCS)*, 2020.
- 39 Y. Li, Y. Liu, Y. Wang, Z. Guo, H. Yin, H. Teng, "Synergetic Denial-of-Service Attacks and Defense in Underwater Named Data Networking", *Proc. of IEEE Conference on Computer Communications (INFOCOM)*, 2020.
- 38 Y. Cao, Q. Zhang, F. Li, S. Yang, Y. Wang, "PPGPass: Nonintrusive and Secure Mobile Two-Factor Authentication via Wearables", *Proc. of IEEE Conference on Computer Communications (INFOCOM)*, 2020.
- 37 S. Alasmari, W. Wang, T. Qin, Y. Wang, "Proof of Encryption: Enforcement of Security Service Level Agreement for Encryption", *Proc. of IEEE Conference on Dependable and Secure Computing (IDSC)*, 2019. **[Best Paper Runner-up Award]**
- 36 J. Hou, J. Qian, Y. Wang, X.-Y. Li, H. Du, L. Chen, "ML Defense: Against Prediction API Threats in Cloud-Based Machine Learning Service", *Proc. of IEEE/ACM International Symposium on Quality of Service (IWQoS)*, 2019.
- 35 Y. Xie, F. Li, Y. Wu, S. Yang, Y. Wang, "D3-Guard: Acoustic-based Drowsy Driving Detection Using Smartphones", *Proc. of IEEE Conference on Computer Communications (INFOCOM)*, 2019.
- 34 J. Hou, X.-Y. Li, P. Zhu, Z. Wang, Y. Wang, J. Qian, P. Yang, "SignSpeaker: A Real-time, High-Precision SmartWatch-based Sign Language Translator", *Proc. of ACM Annual International Conference on Mobile Computing and Networking (MobiCom)*, 2019.
- 33 H. Li, T. Li, F. Li, S. Yang, Y. Wang, "Multi-Expertise AwareParticipant Selection in Mobile Crowd Sensing via Online Learning", *Proc. of IEEE International Conference on Mobile Ad hoc and Sensor Systems (MASS)*, 2018
- 32 J. Qian, F. Han, J. Hou, C. Zhang, Y. Wang, X.-Y. Li, "Towards Privacy-Preserving Speech Data Publishing", *Proc. of IEEE Conference on Computer Communications (INFOCOM)*, 2018.
- 31 L. Chang, J. Xiong, Y. Wang, X. Chen, J. Hu, D. Fang, "iUpdater: Low Cost Fingerprints Updating for High Accurate Device-free Localization", *Proc. of 37th IEEE International Conference on Distributed Computing (ICDCS)*, 2017.
- 30 T. Li, T. Jung, H. Li, L. Cao, W. Wang, X.-Y. Li, Y. Wang, "Scalable Privacy-Preserving Participant Selection in Mobile Crowd Sensing", *Proc. of IEEE 15th International Conference on Pervasive Computing and Communications (PerCom)*, 2017.
- 29 H. Chen, F. Li, Y. Wang, "EchoTrack: Acoustic Device-free Hand Tracking on Smart Phones", *Proc. of IEEE Conference on Computer Communications (INFOCOM)*, 2017.
- 28 H. Li, T. Li, F. Li, W. Wang, Y. Wang, "Enhancing Participant Selection through Caching in Mobile Crowd Sensing", *Proc. of IEEE/ACM International Symposium on Quality of Service (IWQoS)*, 2016.
- 27 L. Chang, X. Chen, Y. Wang, D. Fang, J. Wang, T. Xing, Z. Tang, "FitLoc: Fine-grained and Low-cost Device-free Localization for Multiple Targets over Various Areas", *Proc. of IEEE Conference on Computer Communications (INFOCOM)*, 2016.
- 26 H. Li, T. Li, Y. Wang, "Dynamic Participant Recruitment of Mobile Crowd Sensing for Heterogeneous Sensing Tasks", *Proc. of IEEE International Conference on Mobile Ad hoc*



and Sensor Systems (MASS), 2015.

- 25 L. Zhang, C. Bo, J. Hou, X.-Y. Li, Y. Wang, K. Liu, Y. Liu, "Kaleido: You Can Watch It But Cannot Record It", *Proc. of ACM Annual International Conference on Mobile Computing and Networking (MobiCom)*, 2015.
- 24 J. Zhao, T. Jung, Y. Wang, X.-Y. Li, "Achieving Differential Privacy of Data Disclosure in the Smart Grid", *Proc. of IEEE Conf. on Computer Communications (INFOCOM)*, 2014.
- 23 L. Liu, X. Cao, Y. Cheng, L. Du, W. Song, Y. Wang, "Energy-efficient Capacity Optimization in Wireless Networks", *Proc. of IEEE Conference on Computer Communications (INFOCOM)*, 2014.
- 22 F. Li, H. Jiang, Y. Wang, X. Li, M. Wang, T. Abdeldjalil, "SEBAR: Social Energy BAsed Routing Scheme for Mobile Social Delay Tolerant Networks", *Proc. of IEEE International Performance Computing & Communications Conf. (IPCCC)*, 2013. [**Best Paper Award**]
- 21 F. Li, S. Chen, S. Tang, X. He, Y. Wang, "Efficient Topology Design in Time-Evolving and Energy-Harvesting Wireless Sensor Networks", *Proc. of IEEE International Conf. on Mobile Ad-hoc and Sensor Systems (MASS)*, 2013. [**Best Paper Award (Theory Track)**]
- 20 S. Tang, J. Yuan, X.-Y. Li, Y. Wang, C. Wang, X. Liu, "MINT: Maximizing Information Propagation in Predictable Delay-Tolerant Network", *Proc. of ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)*, 2013.
- 19 Y. Wang, D. Xu, X. He, C. Zhang, F. Li, B. Xu, "L2P2: Location-aware Location Privacy Protection for Location-based Services", *Proc. of IEEE Conference on Computer Communications (INFOCOM)*, 2012.
- 18 M. Huang, S. Chen, Y. Zhu, B. Xu, Y. Wang, "Topology Control for Time-Evolving and Predictable Delay-Tolerant Networks", *Proc. of IEEE Int'l Conf. on Mobile Ad-hoc & Sensor System (MASS)*, 2011. [**Best Paper Candidate**]
- 17 Y. Zhu, M. Huang, S. Chen, Y. Wang, "Cooperative Energy Spanners: Energy-Efficient Topology Control in Cooperative Ad Hoc Networks", *Proc. of IEEE Conference on Computer Communications (INFOCOM)*, 2011.
- 16 M. Huang, S. Chen, Y. Wang, "Minimum Cost Localization Problem in Wireless Sensor Networks", *Proc. of IEEE Communications Society Conference on Sensor, Mesh, and Ad Hoc Communications and Networks (SECON)*, 2010.
- 15 S. Chen, S.-J. Tang, M. Huang, Y. Wang, "Capacity of Data Collection in Arbitrary Wireless Sensor Networks", *Proc. of IEEE Conference on Computer Communications (INFOCOM)*, 2010.
- 14 S. Chen, Y. Wang, X.-Y. Li, X. Shi, "Order-Optimal Data Collection in Wireless Sensor Networks: Delay and Capacity", *Proc. of IEEE Communications Society Conference on Sensor, Mesh, and Ad Hoc Communications and Networks (SECON)*, 2009.
- 13 F. Li, Y. Wang, "Circular Sailing Routing for Wireless Networks", *Proc. of IEEE Conf. on Computer Communications (INFOCOM)*, 2008.
- 12 Y. Wang, W.-Z. Song, W. Wang, X.-Y. Li, T.A. Dahlberg, "LEARN: Localized Energy Aware Restricted Neighborhood Routing for Ad Hoc Networks", *Proc. of IEEE Conference on Sensor, Mesh, and Ad Hoc Communications and Networks (SECON)*, 2006.
- 11 W. Wang, Y. Wang, X.-Y. Li, W.-Z. Song, O. Frieder, "Efficient Interference-Aware TDMA Link Scheduling for Static Wireless Networks", *Proc. of ACM Annual International Conference on Mobile Computing and Networking (MobiCom)*, 2006.
- 10 W. Wang, S. Eidenbenz, Y. Wang, X.-Y. Li, "OURS: Optimal Unicast Routing Systems in Non-Cooperative Wireless Networks", *Proc. of ACM Annual International Conference on*

- Mobile Computing and Networking (MobiCom)*, 2006.
- 9 Y. Wang, W. Wang, X.-Y. Li, "Distributed Low-Cost Backbone Formation for Wireless Ad Hoc Networks", *Proc. of ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)*, 2005.
  - 8 W. Wang, X.-Y. Li, Z. Sun, Y. Wang, "Design Multicast Protocols for Non-Cooperative Networks", *Proc. of Annual Joint Conference of the IEEE Computer and Communications Societies (INFOCOM)*, 2005.
  - 7 W. Wang, X.-Y. Li, Y. Wang, "Truthful Multicast in Selfish Wireless Networks", *Proc. of ACM Annual Int'l Conf. on Mobile Computing and Networking (MobiCom)*, 2004.
  - 6 W.-Z. Song, Y. Wang, X.-Y. Li, O. Frieder, "Localized Algorithms for Energy Efficient Topology in Wireless Ad Hoc Networks", *Proc. of ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)*, 2004.
  - 5 X.-Y. Li, Y. Wang, P.-J. Wan, W.-Z. Song, O. Frieder, "Localized Low-Weight Graph and Its Applications in Wireless Ad Hoc Networks", *Proc. of Annual Joint Conference of the IEEE Computer and Communications Societies (INFOCOM)*, 2004.
  - 4 X.-Y. Li, W.-Z. Song, Y. Wang, "Localized Topology Control for Heterogenous Wireless Ad Hoc Networks", *Proc. of IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)*, 2004.
  - 3 X.-Y. Li, P.-J. Wan, Y. Wang, C.-Y. Yi, "Fault Tolerant Deployment and Topology Control in Wireless Networks", *Proc. of ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)*, 2003.
  - 2 Y. Wang, X.-Y. Li, "Geometric Spanners for Wireless Ad Hoc Networks", *Proc. of IEEE International Conference on Distributed Computing Systems (ICDCS)*, 2002
  - 1 X.-Y. Li, P.-J. Wan, Y. Wang, O. Frieder, "Sparse Power Efficient Topology for Wireless Networks", *Proc. of IEEE 35<sup>th</sup> Hawaii International Conference on System Sciences (HICSS-35)*, 2002. [**Best Paper Award**]

**Research Funding (Selected)**      *AI4EDU: Cloud Infrastructure-Enabled Training for AI in Educational Research and Assessment*, PIs: Yu Wang, Ningfang Mi (Northeastern University), Chuang Wang (UNC Charlotte), Lishan Yang (George Mason University), Co-PI: Chiu C Tan, 9/2024 to 8/2028, National Science Foundation

*AirEdge: Robust Airborne Network with Adaptive Edge Computing using Swarming UAVs*, PIs: Y. Wang, T. Han (New Jersey Institute of Technology), P. Wang (UNC Charlotte), 10/2020 to 9/2024, National Science Foundation

*Cooperative AI Inference in Vehicular Edge Networks for Advanced Driver-Assistance Systems*, PIs: Y. Wang (J. Wu), H. Ling (Stony Brook Univ.), J. Park (Y. Wang) and M. Zadeh (Kettering Univ.) and S. S. Ho (N. Wang) (Rowan Univ.), 10/2021-9/2025, National Science Foundation

*A Hybrid NVM based Computing Architecture for Machine Learning Applications*, PI: D. Cheng, Co-PI: Y. Wang, 10/2019-9/2023, National Science Foundation

*Tier 1 UTC: Center for Advanced Multimodal Mobility Solutions and Education*, PI: W. Fan, Co-PIs: Y. Wang, M. Kane, D. Weggel, M. Pando; and other teams from Texas Southern Univ., Univ. of Connecticut, UT Austin, and Washington State Univ., 12/2016-12/2021, Department of Transportation

*Accelerating Spectrum Access in Cognitive Radio Networks via Social Analysis of Secondary Users*, PI: J. Xie, Co-PIs: Y. Wang & Y. Cao, 1/2014-12/2018, National Science Foundation

*Towards Reliable, Energy-Efficient, and Secure Vehicular Networks*, PIs: Y. Wang and Y. Cheng (Illinois Institute of Technology), 1/2014-12/2017, National Science Foundation

*Topology Design in Socio-Temporal Evolving Wireless Networks*, PI: Y. Wang, 9/2010-8/2013, National Science Foundation

*An Integrated Environment-Independent Approach to Topology Control in Wireless Ad Hoc Networks*, PIs: Y. Wang, H. Sethu (Drexel University), and L. Cheng (Lehigh University), 8/2009-7/2013, National Science Foundation

*Topology and Routing Design for Three-Dimensional Sensor Networks: Geometric Approaches*, PI: Y. Wang, 9/2007-8/2011, National Science Foundation

*A Microeconomic Approach: Protocol Design for Ubiquitous and Integrated Networks*, PI: Y. Wang, 6/2006-5/2007, Oak Ridge Associated Universities  
**(Ralph E. Powe Junior Faculty Enhancement Awards)**

## Awards

*IEEE Vehicular Technology Society 2024 Best Magazine Paper Award*, IEEE Vehicular Technology Society, October 2024

*IEEE Benjamin Franklin Key Award*, IEEE Philadelphia Section, April 2024

*Editor's Choice Articles*, Sensors by MDPI, August 2022

*AAIA Fellow*, Asia-Pacific Artificial Intelligence Association (AAIA), June 2021

*ACM Distinguished Member (2020)*, for outstanding scientific contributions to computing, ACM, December 2020

*Best Paper Runner-up Award*, IEEE Conference on Dependable and Secure Computing (IDSC 2019), Hangzhou, China, November 2019

*IEEE Fellow (2018)*, for contributions to topology design and performance optimization in wireless networks, IEEE, November 2017

*Best Poster Award*, ACM 22nd Annual International Conference on Mobile Computing and Networking (ACM MobiCom), October 2016

*Best Paper Award*, Tsinghua Science and Technology, 2015

*Best Paper Award*, IEEE 32<sup>nd</sup> International Performance Computing and Communications Conference (IEEE IPCCC), 2013

*Best Paper Award (Theory Track)*, 10<sup>th</sup> IEEE International Conference on Mobile Ad-hoc and Sensor Systems (IEEE MASS), 2013

*Prolific Reviewer*, IEEE Transactions on Parallel and Distributed Systems, 2013

*Excellence in Graduate Teaching Award*, College of Computing and Informatics, University of North Carolina at Charlotte, 2012

*Best Paper Candidate*, 8<sup>th</sup> IEEE International Conference on Mobile Ad-hoc and Sensor Systems (IEEE MASS), 2011

*Outstanding Faculty Research Award*, College of Computing and Informatics, University of North Carolina at Charlotte, 2008

*Winner of Performance Award and First Place of Presentation Award, the Mobile Ad-hoc Networking Interoperability and Cooperation (MANIAC) Challenge 2007, 2007*

*Ralph E. Powe Junior Faculty Enhancement Awards, Oak Ridge Associated Universities, 2006*

*Sigma Xi Award, Illinois Institute of Technology, 2004*

*Best Student Paper Award and Teaching Assistant of The Year, Department of Computer Science, Illinois Institute of Technology, 2003*

*Best Paper Award, IEEE 35<sup>th</sup> Hawaii International Conference on System Sciences (IEEE HICSS-35) (Software Track), 2002*

## Service

### **Editorial Board Member for Journal (Selected):**

IEEE Transactions on Cloud Computing	2021~
IEEE Transactions on Parallel and Distributed Systems	2013~2016
Journal of Computer Science and Technology	2024~
Intelligent and Converged Networks	2020~
Big Data Mining and Analytics	2017~
Tsinghua Science and Technology	2012~
International Journal of Ad Hoc and Ubiquitous Computing	2006~2017
International Journal of Distributed Sensor Networks	2013~2016
KSII Transactions on Internet and Information Systems	2012~2016
Ad Hoc & Sensor Wireless Networks	2009~2013

**Guest Editor for Journal:** IEEE Transactions on Sustainable Computing, IEEE Transactions on Industrial Informatics, Computer Communications (Elsevier), EURASIP Journal on Wireless Communications and Networking, Sensors (MDPI), International Journal of Network Management (Wiley), International J. of Distributed Sensor Networks, Tsinghua Science and Technology, CCF Transactions on Pervasive Computing and Interaction, Intelligent and Converged Networks, Journal of Computer Science and Technology, Cluster Computing, Ad Hoc & Sensor Wireless Networks Journal, International J. of Parallel, Emergent and Distributed Systems, etc.

### **Conference/Workshop Organizer (Selected):**

General Co-Chair, 7th ACSIC Symposium on Frontiers in Computing (SOFC 2024), 2024

General Co-Chair, 2<sup>nd</sup> International Workshop on Intelligent and Converged Networks (WICN 2024), 2024

Program Co-Chair, IEEE 26<sup>th</sup>, 30<sup>th</sup>, 43<sup>rd</sup> International Performance Computing and Communications Conference (IPCCC 2007/2011/2024), 2007/2011/2024

Program Co-Chair, 20<sup>th</sup> IEEE International Conference on Mobile Ad-Hoc and Smart Systems (MASS 2023), 2023

Program Chair, International Workshop on Intelligent and Converged Networks (WICN 2023), co-located with IEEE MASS 2023, 2023

Finance Chair, 24<sup>th</sup> ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc 2023), 2023

General Co-Chair: 2<sup>nd</sup> and 7<sup>th</sup> International Conference on Big Data Computing and Communications (BigCom 2016/2021), 2016/2021

International Advisory Committee: IEEE workshop on Security and Privacy in Distributed Ledger Technology (IEEE SP-DLT), in conjunction with IEEE MASS 2020, 2020

International Liaison Chair: 15th International Conference on Green, Pervasive and Cloud Computing (GPC 2020), 2020

General Co-Chair: IEEE 32<sup>nd</sup>, 33<sup>rd</sup>, and 38<sup>th</sup> International Performance Computing and Communications Conference (IPCCC), 2013/2014/2019

General Co-Chair: 4<sup>th</sup>-6<sup>th</sup> International Workshop on Crowd Assisted Sensing, Pervasive Systems and Communications (CASPer), 2017/2018/2019

Track Co-Chair: Social Networks & Computing (SNC) Track, 24<sup>th</sup> & 26<sup>th</sup> International Conference on Computer Communications and Networks (ICCCN 2016/2018), 2016/2018

Program Co-Chair: 9<sup>th</sup> IEEE International Conference on Cyber, Physical and Social Computing (CPSCoM), 2016

Program Co-Chair: 1<sup>st</sup> International Conference on Big Data Computing and Communications (BigCom 2015), 2015

Program Vice Chair: 20<sup>th</sup> IEEE International Conf. on Parallel and Distributed Systems (ICPDS 2015), Security and Trustworthy Computing Track, 2015

Symposium Co-Chair: Wireless Networks Symposium, International Conference on Computing, Networking and Communications (ICNC 2015), 2015

EDAS Chair: 15<sup>th</sup> ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc 2014), 2014

Submission Chair: 10<sup>th</sup> IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS 2013), 2013

Program Co-Chair, 3<sup>rd</sup> International Workshop on Cyber-Physical Networking Systems (CPNS 2013), 2013

Finance Chair, 13<sup>th</sup> ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc 2012), 2012

Program Co-Chair, 1<sup>st</sup> and 2<sup>nd</sup> ACM Int'l Workshop on Foundations of Wireless Ad Hoc and Sensor Networking and Computing (FOWANC), 2008/2009

Program Co-Chair, Workshop on Wireless Ad hoc and Sensor Networks (WWASN 2007), 2007

#### **Steering Committee Members for Conference:**

IEEE International Performance Computing and Communications Conference (IPCCC), (2015~present)

International Conference on Big Data Computing and Communications (BigCom), (2015~present)

ACM International Workshop on Foundations of Wireless Ad Hoc and Sensor Networking and Computing (FOWANC), (2008~2009)

#### **Technical Program Committee Members for Conference (Selected):**

ACM Int'l Symp. on Mobile Ad Hoc Networking & Computing (MobiHoc 2014),  
IEEE Annual Conf. on Computer Communications (INFOCOM 2005, 08-25),

IEEE Int'l Conference on Distributed Computing Systems (ICDCS 2015),  
 IEEE International Conference on Communications (ICC 2007-12,14,15,18-23),  
 IEEE Global Telecommunications Conference (Globecom 2006, 09-15, 24),  
 IEEE Wireless Communications & Networking Conf. (WCNC 2009, 11, 13-16),  
 IEEE Int'l Performance Comp. & Commu. Conf. (IPCCC 05, 06, 09, 10, 18),  
 IEEE Int'l Parallel & Distributed Processing Symposium (IPDPS 2016, 20)  
 International World Wide Web Conference, (WWW 2018)  
 IEEE Int'l Conf. on Mobile Ad-hoc & Sensor Systems (MASS 2005, 07, 10-13),  
 IEEE Int'l Conf. on Computer Commu. & Networks (ICCCN 2005,07,08,15,20),  
 IEEE Int'l Symp. on Personal, Indoor & Mob. Radio Commu. (PIMRC 08,11-13).

**Proposal Panelist / Reviewer:**

National Science Foundation (NSF), NASA Advanced Information Systems Technology (AIST) Program, US DOE/ARPA-E SENSORS Program, Natural Sciences and Engineering Research Council of Canada (NSERC), Swiss National Science Foundation (SNSF), Chilean Science Agency (CONICYT), Research Grant Council (RGC) of Hong Kong, Science Fund of the Republic of Serbia, North Dakota State University Advanced Program, North Dakota EPSCoR Program, Maryland Technology Transfer and Commercialization Fund, Ontario Research Fund, Professional Staff Congress - City University of New York, King Abdulaziz University - Saudi Arabia, AAAS Program - the King Abdulaziz City for Science and Technology (KACST).

**Service in Professional Society:**

Member, IEEE Computer Society Fellows Evaluation Committee (2019 & 2020)  
 Chair of Communication Chapter, IEEE Charlotte Section (2012~2014, 2018)  
 Board Member, Tsinghua Alumni Academic Club (2018~2021, VP 2021~2022)

**Teaching**

*Temple University (Spring 2020-):*

CIS 3223, Data Structures and Algorithms  
 CIS 3319, Wireless Network and Security  
 CIS 5639, Wireless Network and Communication  
 CIS 5637, Network and Information Security

*University of North Carolina at Charlotte (Fall 2004-Spring 2019):*

ITCS3166, Introduction to Computer Networks  
 ITCS6010/8010, Mobile Ad Hoc Networks and Computing  
 ITCS6132/8132, Modeling and Analysis of Communication Networks  
 ITCS6166/8166, Computer Communications and Networks  
 ITCS6167/8167, Advanced Networking Protocol  
 ITCS6168/8168, Wireless Communication Networks

*Tsinghua University (Spring 2011):*

Y0240271, Advanced Topics in Ad Hoc and Sensor Networks

**Students**

**Current:** *PhD students-* Jiyao Liu (2021-), Xuanzhang Liu (2021-).

**Previous:** *PhD graduates-* Fan Li (2005-08), Minsu Huang (2007-12), Siyuan Chen (2007-12), Ying Zhu (2010-13), Cheng Bo (2014-16), Hanshang Li (2014-18), Ting Li (2014-2019), A B M Mohaimenur Rahman (2017-22), Xinliang Wei (2019-2023); *Master graduates-* Bhavanichikar Harish (2009), Chao Zhang (2014), Teja Kanchinadam (2016); *Undergraduate students-* Sergey Begun

(2007-08), Will Tune (Summer 2009), Yong Sun (2011-12), Layla Lajami (2014), Matthew Coon (Summer 2019), Qinghua Lu (Fall 2020), Jackie Gan (2022-23);

**Membership** Fellow of IEEE, Distinguished Member of ACM, Fellow of AAIA, Member of AAAS