Dr. Kewei Sha

University of North Texas
College of Information
3940 N Elm St
Denton, TX 76207

Office: Discovery Park E295A
Phone: 940-565-3271
Email: kewei.sha@unt.edu
Web: https://comersha.github.io

Research Interests

Data Analytics, Edge Computing, Security and Privacy, Blockchain, Smart Healthcare Systems, Internet of Things, and Virtual and Augmented Reality

Employment

Associate Professor, University of North Texas, 09/2023 –
Professor, University of Houston-Clear Lake, 06/2023 – 08/2023
Associate Professor, University of Houston-Clear Lake, 09/2019 – 06/2023
Associate Director, Cyber Security Institute at UHCL, 09/2015 – 06/2023
Assistant Professor, University of Houston-Clear Lake, 09/2015 – 08/2019
Chair, Dept. of Technology and Software Eng., Oklahoma City University, 07/2013-08/2015
Associate Professor, Oklahoma City University, 07/01/2015 – 08/31/2015
Assistant Professor, Oklahoma City University, 07/2011-06/30/2015
Visiting Assistant Professor, Oklahoma City University, 08/2008-06/2011

Education

Ph.D. in Computer Science, 09/2003-11/2008
Wayne State University, Detroit, MI

M.S. in Computer Science, 09/2003-12/2006
Wayne State University, Detroit, MI

B.S. in Computer Science, 09/1997-07/2001
East China University of Science and Technology, Shanghai, China

Honors and Awards

- University Faculty Fellowship Award, UHCL, 2022
- UHCL Anthony & Barbara Lekkos Endowment Faculty Fellowship, 2021
- Recognition of Service as General Chair of IEEE/ACM CHASE 2021 by ACM, 2021
- Recognition of Service as Program Chair of ACM/IEEE SEC 2020 by ACM, 2020
- UHCL President's Distinguished Research Award, 2019
- IEEE Outstanding Leadership Award from IEEE ICCCN 2019
- Paper "On security challenges and open issues in Internet of Things" is featured in Future Generation Computer Systems' Research Insights, 2019
- 2018 Albert Nelson Marquis Lifetime Achievement Award, 2018
- IEEE Outstanding Leadership Award 2018
- UHCL Piper Award Nominee, 2018
- Nominee of USERN Prize 2018
- UHCL Spotlight Researcher, 2018

- Elsevier Outstanding Reviewer, 2018
- IEEE Senior Member, 2016
- ACM Senior Member, 2016
- IEEE Outstanding Leadership Award 2015
- IEEE Outstanding Leadership Award 2014
- Recognition of Workshop Co-Chair from ICCCN 2013
- Distinguished Student Mentor of Meinders School of Business, OCU, 2012
- Fellow of the Faculty Teaching Academy at OCU, 2011
- Semi-Finalist in 2012 Oklahoma Governor's Business Plan Competition (as advisor), 2012
- The 3rd Place in 2011 Oklahoma Governor's Business Plan Competition (as advisor), 2011
- Cambridge Who's Who, 2008
- Marquis Who's Who in America, 2008
- General Motor Corporations Academic Award, 2008
- Meritorious Prize of International Undergraduate Mathematical Contest on Modeling (MCM), 2000
- First-Rank Award of Mathematics Contest in Modeling (MCM) of China, 1999
- Baogang Fellowship, by Shanghai Ministry of Education, 2000

Awarded Funding

- UNT Global Venture Fund (GVF), 11/30/2023-8/10/2024, $4,000, PI, awarded
- Total external before moving to UNT: **$5,379,676** (at UHCL); $20,500 (at OCU)
- NSF CISE-MSI, An Edge-Based Approach to Robust Multi-Robot Systems in Dynamic Environments, 10/2022-09/2025, $234,982, PI, awarded
- CyBR-MSI 2022 Mini Grant, An Edge-Based Approach to Robust Multi-Robot Systems in Dynamic Environment, 05/2022-09/2022, $10,000, PI, awarded
- UH ACPV Grant, 06/2022-09/2022, $100,000, Senior Personnel (UHCL PI: Dr. Kwok-Bun Yue), awarded
- NASA STTR: Blockchain for Model-Based System Engineering, 2021-2023, Senior Personnel (PI: Dr. Kwok-Bun Yue), $750,000, awarded
- NSF Noyce Scholarship Program: Recruiting and Supporting a Diverse Pool of Highly-Qualified STEM Teachers through Communities of Practice and Informal Science Internships, 04/01/2022-03/31/2026, $1,199,969, co-PI (PI: Dr. Jana Willis), awarded
- UHCL: Anthony & Barbara Lekkos Endowment Faculty Fellowship, 2021-2022, $10,000, PI, awarded
- NSF HSI: Building Capacity: Improving STEM Graduation Rates through Engaged Learning, 10/2019-09/2024, co-PI (PI: Dr. Said Bettayeb, other Co-PI: Dr. Hakduran Koc, and Dr. Richard Puzdrowski), $2,499,930.00, awarded
- NSF DGE: Revamping a Traditional Computer Science Program to Meet Modern-day Cybersecurity Education Challenges, 09/2017-08/2020, co-PI (PI: Dr. Andrew Yang, other Co-PI: Dr. Wei Wei), $499,995.00, awarded
- NSF: IIP: Creating Augmented Reality Platform for Treatment of Phobias\Anxiety with ASD Children, sub-Award from Baylor College of Medicine, $4,3800, awarded
- NSF Travel Grant, 2017, PI $10,000, awarded
- NSF Travel Grant, 2017, PI $15,000, awarded
- Travel Award from the Sustainable Horizons Institute & Berkeley Lab, 2017, PI, $1200, awarded
- UHCL Faculty Research Support Funding (FRSF), 2022-2023, PI, $6,000, awarded UHCL
- Faculty Development Funding (FDF), 2021-2022, PI, $2,000, awarded
- UHCL Faculty Research Support Funding (FRSF), 2019-2020, PI, $5,900, awarded
- UHCL Faculty Development Funding (FDF), 2018-2019, PI, $2,000, awarded

- UHCL Faculty Development Funding (FDF), 2017-2018, PI, $2,000, awarded
- UHCL Faculty Development Funding (FDF), 2016-2017, PI, $2,000, awarded
- UHCL Faculty Research Support Funding (FRSF), 2016-2017, PI, $3,900, awarded
- UHCL Faculty Development Funding (FDF), 2015-2016, PI, $1,800, awarded
- NSF Travel Grant, 2015, PI $10,000, awarded
- NSF EPSCoR Oklahoma ROA+, 2015, PI $12,500 awarded
- OCU Summer Undergraduate Research Grant, 2014, PI $5000, awarded
- OCU Student Professional Fund, 2014-2015 PI $1600, awarded
- SC'13 HPC Educator Travel Award, 2013, $2000, awarded

Publications

Book & Book Chapters

1. Michelle Lynn Peters, T. Andrew Yang, Wei Wei, **Kewei Sha**, and Sadegh Davari, "Examining the Influence of Participating in a Cyber Defense Track on Students' Cybersecurity Knowledge, Awareness, and Career Choices", *Advances in Software Engineering, Education, and e-Learning*, pp 31-42, Springer, Cham, 2021
2. **Kewei Sha**, Aaron Striegel and Min Song, "Advances in Computer Communications and Networks -- from green, mobile, pervasive networking to big data computing", edited book, *River Publisher*, 2017
3. **Kewei Sha**, Aaron Striegel and Min Song, "Security, Privacy and Reliability in Computer Communication and Networks", edited book, *River Publisher*, 2017
4. Wenjia Li, **Kewei Sha** and Sherali Zeadally, "Routing in Wireless Senor Network based Cyber-Physical Systems", book chapter in *Cyber-Physical System Design with Sensor Networking Technologies*, March 2016
5. **Kewei Sha**, "Data Quality Management in Wireless Sensor Networks: A Consistency Model Based Approach", *VDM Verlag Dr. Müller,* April 2010
6. **Kewei Sha**, Weisong Shi, and Sivakumar Sellamuthu, "Load Balanced Query Protocols for Wireless Sensor Networks", book chapter of the book "*Sensor Networks Operations*", Edited by Shashi Phoha, Thomas F. La Porta and Christopher Griffin, Wiley-IEEE Press, May 2006

Journals Publications

1. Hui Sun, Zhiyong Wang, Yiru Chen, Ying Yu, **Kewei Sha**, and Yalong Wu, "A Collaborative Computation Offloading Strategy in Distributed Edge Computing Systems", *IEEE Transactions on Service Computing (IEEE TSC),* 2023, doi: 10.1109/TSC.2023.3342800.
2. Hui Sun, Xiuye Zhang, Bo Zhang, **Kewei Sha**, and Weisong Shi, "Optimal Task Offloading and Trajectory Planning Algorithms for Collaborative Video Analytics with UAV-assisted Edge in Disaster Rescue", *IEEE Transactions on Vehicular Technology (IEEE TVT), 2003*, doi: 10.1109/TVT.2023.3344281.
3. Ran Ding, Yan Xu, Hong Zhong, Jie Cui, Jianfeng Ma, **Kewei Sha**, "Towards Fully Anonymous Integrity Checking and Reliability Authentication for Cloud Data Sharing", *IEEE Transactions on Services Computing (IEEE TSC),* vol. 16, no. 5, pp. 3782-3795, Sept.-Oct. 2023, doi: 10.1109/TSC.2023.3270580.
4. Hui Sun, Yiru Chen, **Kewei Sha**, Shaoyuan Huang, Xiaofei Wang, and Weisong Shi, "A Proactive On-Demand Content Placement Strategy in Edge Intelligent Gateways", early access, *IEEE Transactions on Parallel and Distributed Systems,* vol. 34, no. 7, pp. 2072-2090, July 2023, doi: 10.1109/TPDS.2023.3249797.
5. Hui Sun, Qiyuan Li, **Kewei Sha**, Ying Yu, "ElasticEdge: Edge Computing-Enabled Intelligent

Video Analytics Framework for Live Video", *IEEE IoT Journal*, vol. 9, no. 22, pp. 23031-23046, 15 Nov.15, 2022, doi: 10.1109/JIOT.2022.3187621.

6. Hui Sun, Ying Yu, **Kewei Sha***, Hong Zhong, "EdgeEye: A Data-driven Approach for Optimal Deployment of Edge Video Analytics", *IEEE IoT Journal*, vol. 9, no. 19, pp. 19273-19295, 1 Oct. 1, 2022, DOI: 10.1109/JIOT.2022.3166896.

7. Sai Ram Vallam Sudhakar, Namarata Kayastha, **Kewei Sha***, "OFES: Optimal Feature Evaluation and Selection for Multi-Class Classification", *Data & Knowledge Engineering*, 139, 102007, 2022

8. Hui Sun, Bo Zhang, Ying Yu, Xiuye Zhang, **Kewei Sha,** Weisong Shi, "FlexEdge: Dynamic Task Scheduling for a UAV-based On-Demand Mobile Edge Server", *IEEE IoT Journal*, vol. 9, no. 17, pp. 15983-16005, 1 Sept.1, 2022, doi: 10.1109/JIOT.2022.3152447.

9. Otmane Azeroual, Meena Jha, Anastasija Nikiforova, **Kewei Sha**, Mohammad Alsmirat, Sanjay Jha, "A Record Linkage-Based Deduplication of Research Data: A DataCleaner Extension", *Multimodal Technologies and Interaction* (**Q2**), 2022; 6(4):27

10. Youhuizi Li, Yuyu Yin, Xu Chen, Jian Wan, Gangyong Jia, **Kewei Sha,** "A Secure Dynamic Mix Zone Pseudonym Changing Scheme Based on Traffic Context Prediction", *IEEE Transactions on Intelligent Transportation Systems*, vol. 23, no. 7, pp. 9492-9505, July 2022, doi: 10.1109/TITS.2021.3125744.

11. Jiaxing Tang, Yang Chen, Guozhen She, Yang Xu, **Kewei Sha,** Xin Wang, Yi Wang, and Pan Hui, **"**Identifying Mis-Configured Author Profiles on Google Scholar Using Deep Learning", *Applied Sciences,* 11(15), p. 6912, 2021

12. Sai Ram Vallam Sudhakar, Namarata Kayastha, **Kewei Sha***, "ActID: An Efficient Framework For Activity Sensor-Based User Identification", *Computers & Security*, Volume 108, September 2021, 102319

13. **Kewei Sha*,** Wei Wei, T. Andrew Yang, and Sadegh Davari, "A Survey of Edge Computing Based Designs for IoT Security"*, Digital Communications and Networks*, 6 (2), 195-202, May 2020.

14. Hui Sun, Ying Yu, **Kewei Sha***, and Bendong Lou, "mVideo: Edge Computing Enabled Mobile Video Processing Systems", *IEEE Access*, 8, 11615-11623, 2019

15. Youhuizi Li, Zeyong Dong, **Kewei Sha,** Congfeng Jiang, Jian Wan, and Yuan Wang, "TMO: Time Domain Outsourcing Attribute-based Encryption Scheme for Data Acquisition in Edge Computing", *IEEE Access*, 7 (1), 40240-40257, March 2019

16. **Kewei Sha,** Wei Wei, T. Andrew Yang, Zhiwei Wang and Weisong Shi, "Challenges and Open Security Issues in Internet of Thing", *Future Generation Computer Systems (FGCS)*, 83 (2018), 326-337, June 2018

17. **Kewei Sha**, Xiaohui Liang and Wenjia Li "Editorial: Special Issue on Security in Medical Cyber-Physical Systems"*, Elsevier Smart Health*, November 2018.

18. **Kewei Sha***, Naif Alatrash and Zhiwei Wang, "A Secure Framework to Read Isolated Smart Grid Devices", *IEEE Transactions of Smart Grid (TSG)*, 8(6), 2519 - 2531, Nov. 2017

19. Aseel Basheer and **Kewei Sha*** "Cluster-based Quality-Aware Adaptive Data Compression for Streaming Data", *ACM Journal of Data and Information Quality (JDIQ)*, 9(1), 26-63 (article 2). September 2017

20. Junzhao Du, Sicong Liu, Rui Li, Xue Yang, Hui Liu and **Kewei Sha,** "Energy-efficient Algorithm to Construct the Information Potential Field in WSNs"*, IEEE Sensors Journal*, 17(12), 3822 - 3831, June 2017

21. Shiwen Mao, Honggang Wang, Aaron Striegel, and **Kewei Sha**, "Editorial: Special Issue on Cognitive, Cellular, and Mobile Networks"*, EAI Endorsed Transactions on Wireless Spectrum*, 16(7): e1, January 2016.

22. Abhishek Parakh and **Kewei Sha**, "Editorial: Privacy, Security and Trust in Mobile and Wireless Systems", *International Journal of Security and Networks*, Vol. 11, Nos. 1/2, 2016

23. **Kewei Sha** and Sherali Zeadally, "Data Quality in Cyber-Physical Systems", *ACM Journal on Data and Information Quality*, 6(2-3), article No. 8, July 2015

24. **Kewei Sha** and Zhengping Wu, "Editorial: Privacy, Security and Trust in Mobile Systems", *Wireless Personal Communications*, 73(1), 1-3, 2013

25. Zhiwei Wang, **Kewei Sha** and Wei Lv*, "Slight Homomorphic Signature for Access Controlling in Cloud Computing"*, Wireless Personal Communications (WIRE)*, 73 (1), 51-61, 2013

26. **Kewei Sha,** Jegnesh Gehlot, and Robert Greve, "Multipath Routing Techniques in Wireless Sensor Networks, A Survey", *Wireless Personal Communications (WIRE)*, 70 (2), 807-829, 2013

27. **Kewei Sha**, Shinan Wang and Weisong Shi, "RD4: Role-Differentiated Cooperative Deceptive Data Detection and Filtering in VANETs", IEEE *Transactions on Vehicular Technology (TVT)*, Vol. 59, No. 3, pp. 1183-1190, March 2010

28. **Kewei Sha** and Weisong Shi, "Consistency-Driven Data Quality Management in Wireless Sensor Networks", *Journal of Parallel and Distributed Computing (JPDC)*, Vol. 68, No. 9, pp. 1207-1221, September 2008.

29. Yong Xi, **Kewei Sha**, Weisong Shi, Loren Schwiebert, and Tao Zhang, "Probabilistic Adaptive Privacy-Preserving Authentication in Vehicular Networks", *Journal of Computer Science and Technology (JCST)*, Vol. 23, No. 6, pp. 916-928, November 2008.

30. Junzhao Du, Weisong Shi, and **Kewei Sha**, "Asymmetry-Aware Link Layer Services in Wireless Sensor Networks", *Journal of Embedded Computing*, Vol 3, Issue 2, pp. 141-154, 2009

31. **Kewei Sha**, Junzhao Du, and Weisong Shi, "WEAR: A Balanced, Fault-Tolerant, Energy-Efficient Routing Protocol for Wireless Sensor Networks", *International Journal of Sensor Networks*, Vol 1, No. 2, 2006

32. **Kewei Sha,** Weisong Shi, "Modeling the Lifetime of Wireless Sensor Networks", *Sensor Letters*, Vol 3, pp. 126-135, 2005

Conferences and Workshops Publications

1. Zachary Neal and **Kewei Sha,** "Analysis of Evil Twin, Deauthentication, and Disassociation Attacks on Wi-Fi Cameras", in *Proceedings of the 32th International Conference on Computer Communications and Networks (ICCCN 2023)*, July 2023, Honolulu, HI

2. Otmane Azeroual, Anastasija Nikiforova, and **Kewei Sha**, "The overseen parts of data governance: A workflow framework for dealing with duplicated enterprise data", in *Proceedings of the International Conference on Intelligent Computing, Communication, Networking and Services (ICCNS 2023)*, JUNE 19-22, 2023 - VALENCIA, SPAIN

3. Kwok-Bun Yue, **Kewei Sha**, et. al, Confidentiality and Data Integrity in Consortium Blockchain Applications for Model-Based Systems Engineering, in *Proceedings of the 2023 AIAA SciTech Forum*, Jan 2023, National Harbor, MD

4. Thomas Neumann, Kyle Welsh, Caden Perez, **Kewei Sha**, Yalong Wu, "R^2P^3: Renewal-Reward Process-Based Password Protection in Internet of Things", in *Proceedings of the 31st International Conference on Computer Communications and Networks (ICCCN 2022)*, Aug 2022, Honolulu, HI

5. Kwok-Bun Yue, Pavani Kallempudi, **Kewei Sha**, Wei Wei, and Xinying Liu. "Governance Attributes of Consortium Blockchain Applications." in *Proceedings of AMCIS 2021*, August 2021.

6. **Kewei Sha**, Wei Wei, Arpit Jain, "Design of Network Forensics Labs for Teaching-oriented Institutions", in *Proceedings of the 2021 International Conference on Computational Science and Computational Intelligence*, Dec 2021, Las Vegas, NV

7. **Kewei Sha**, "Lessons and Experiences From Teaching Computing Science Capstone Project Courses", in *Proceedings of The 2021 International Conference on Computational Science and Computational Intelligence*, Dec 2021, Las Vegas, NV

8. Kwok-Bun Yue, Mark Guerra, Howard Wagner, Joses Sandeep Thamarai Selvan, Kayaanoosh Collector, Victor Tang, Margo Sikes, **Kewei Sha**, Pavani Kallempudi, Sahar Mardani, and Keshav Kasichainula, "Applying Blockchain Technology on Model-Based Systems Engineering", in *Proceedings of the 2021 AIAA SciTech Forum*, January 2021.

9. Jie Cui, Sheng Zhou, Hong Zhong, Yan Xu and **Kewei Sha**, "Transaction-based Flow Rule Conflict Detection and Resolution in SDN", in *Proceedings of the 27th International Conference on Computer Communications and Networks (ICCCN 2018)*, Aug 2018, Hangzhou, China.

10. Hong Zhong, Bo Huang, Jie Cui, Jiang Li and **Kewei Sha**, "Efficient Conditional Privacy-Preserving Authentication Scheme Using Revocation Messages for VANET", in *Proceedings of the 27th International Conference on Computer Communications and Networks (ICCCN 2018)*, Aug 2018, Hangzhou, China.

11. Siguang Chen, Zhihao Wang, and **Kewei Sha**, "Cluster-Aware Kronecker-Supported Data Collection for Sensory Data", in *Proceedings of the 27th International Conference on Computer Communications and Networks (ICCCN 2018)*, Aug 2018, Hangzhou, China.

12. Wei Wei, T. Andrew Yang, Sadegh Davari, **Kewei Sha**, Johanna Jacob, "Toward CAE-CDE 4Y Designation through Curriculum Modernization of a Traditional Computer Science Undergraduate Program", the *Proceedings of EDSIG 2018 conference*, Nov. 2018, Norfolk, VA.

13. Johanna Jacob, Wei Wei, **Kewei Sha**, Sadegh Davari, T. Andrew Yang, "Is the NICE Cybersecurity Workforce Framework (NCWF) Effective for a Workforce Comprising of Interdisciplinary Majors?", in *Proceedings of the 16th International Conference on Scientific Computing (CSC 2018)*, Aug 2018, Las Vegas, NV.

14. Yunxiang Zhang, Xiaokun Yang, Lei Wu, **Kewei Sha**, Archit Manishbhai Gajjar and Han He, "Exploring Slice-Energy Saving on An Video Processing FPGA Platform with Approximate Computing", in *Proceedings of 2nd International Conference on Algorithms, Computing and Systems*, July 2018, Beijing, China.

15. Jie Cui, Wenyu Xu, **Kewei Sha** and Hong Zhong, "An Efficient Identity-Based Privacy-Preserving Authentication Scheme for VANETs", in *Proceedings of 13th EAI International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom 2017)*, Dec 2017, EDINBURGH, GREAT BRITAIN.

16. Mousa Alramadhan and **Kewei Sha**, "An Overview of Access Control Mechanisms for Internet of Things", in *Proceedings of the 26th International Conference on Computer Communications and Networks (ICCCN 2017)*, Oct 2017, Vancouver, Canada.

17. Ranadheer Errabelly, **Kewei Sha**, Wei Wei, T. Andrew Yang, Zhiwei Wang, "EdgeSec: Design of an Edge Layer Security Service to Enhance Internet of Things Security", in *Proceedings of the 1st IEEE International Conference on Fog and Edge Computing (ICFEC 2017)*, May 2017, Madrid, Spain.

18. **Kewei Sha**, Wei Wei, Andrew Yang and Weisong Shi, "Security in Internet of Things: Opportunities and Challenges", in *Proceedings of the International Conference on Identification, Information & Knowledge in the Internet of Things (IIKI 2016)*, October 2016, Beijing, China.

19. Aseel Basheer and **Kewei Sha**, "QAAC: Quality-Assure Adaptive Data Compression for Sensor Data", in *Proceedings of the 25th International Conference on Computer Communications and Networks (ICCCN 2016)*, August 2016, Waikoloa, Hawaii, USA.

20. Sicong Liu, Junzhao Du, Rui Li, Hui Liu and **Kewei Sha**, "CrowdBlueNet: Maximizing Crowd Information Collection base on Bluetooth Ad Hoc Networks", in *Proceedings of The 11th International Conference on Wireless Algorithms, Systems, and Applications (WASA 2016)*, August 2016, Bozeman, Montana, USA.

21. Wei Wei, Arti Mann, **Kewei Sha** and Andrew Yang, "Design and Implementation of a Multi-Facet Hierarchical Cybersecurity Education Framework", in *Proceedings of 2016 IEEE International Conference on Intelligence and Security Informatics, the Cybersecurity Workforce and Education track (ISI 2016)*, September 2016, Tucson, USA.

22. Tom Darling and **Kewei Sha**, "REMEDY: Remote Exercise Monitoring using an Evaluative Data sensing sYstem", in *Proceedings of 17th International Conference on E-health Networking, Application & Services (IEEE Healthcom 2015)*, October 2015, Boston, USA

23. Junzhao Du, Sicong Liu, Chi Xu, Kai Wang, Hui Liu and **Kewei Sha**, "Lightweight Construction of the Information Potential Field in Wireless Sensor Networks", in *Proceedings of the 23rd International Conference on Computer Communications and Networks (ICCCN 2014)*, August 2014, Shanghai, China

24. **Kewei Sha**, Chengguang Xu and Zhiwei Wang, "One-time Symmetric Key Based Cloud Supported Secure Smart Meter Reading", in *Proceedings of the 23rd International Conference on Computer Communications and Networks (ICCCN 2014)*, August 2014, Shanghai, China

25. Myung Ah Park, Gang Qian, Michelle Hepner, **Kewei Sha**, "A Gender-Inclusive Holistic approach for IAS Education", in *Proceedings of the International Conference on Frontiers in Education: Computer Science and Computer Engineering*, July 2012, Las Vegas, Nevada, USA

26. Chang Liu, Junzhao Du, Hui Liu and **Kewei Sha**, "Sleep-Wakeup Algorithms for Virtual Barriers for Wireless Sensor Networks in 3D Space", in *Proceedings of the 6th International Conference on Mobile Ad-hoc and Sensor Networks (MSN 2010)*, Dec 2010, Hangzhou, China

27. Yawei Li, Junzhao Du, Hui Liu and **Kewei Sha**, "On Sweep Coverage with Minimum Mobile Sensors", in *Proceedings of the 16th International Conference on Parallel and Distributed Systems (ICPADS 2010)*, Dec 2010, Shanghai, China

28. **Kewei Sha**, Guoxing Zhan, Safwan Al-Omari, Tim Calappi, Weisong Shi and Carol Miller, "Data Quality and Failures Characterization of Sensing Data in Environmental Applications", In *Proceedings of CollaborateCom 2008*, November 2008.

29. **Kewei Sha**, Guoxing Zhan, Weisong Shi, Mark Lumley, Clairy Wiholm, and Bengt Arnetz, "SPA: Smart Phone Assisted Chronic Illness Self-Management with Participatory Sensing", in *Proceedings of The 2nd International Workshop on Systems and Networking Support for Healthcare and Assisted Living Environments (Healthnet'08)*, in conjunction with MobiSys'08, June, 2008.

30. **Kewei Sha** and Weisong Shi, "Modeling Data Consistency in Wireless Sensor Networks" in *Workshop Proceedings of ICDCS 2007 (WWASN 2007)*, Toronto, June 25-29, 2007

31. Yong Xi, **Kewei Sha**, Weisong Shi, Loren Schwiebert, and Tao Zhang, "Enforcing Privacy Using Symmetric Random Key-Set in Vehicular Networks" in *Proceedings of the 8th International Symposium on Autonomous Decentralized Systems (ISADS)*, Sedona AZ, March, 2007

32. **Kewei Sha**, Yong Xi, Weisong Shi, Loren Schwiebert, and Tao Zhang, "Adaptive Privacy-Preserving Authentication in Vehicular Networks", in *Proceedings of the First International Conference on Communications and Networking in China (ChinaCom'06)*, Oct 27, 2006

33. **Kewei Sha** and Weisong Shi, "On the Effects of Consistency in Data Operations in Wireless Sensor Networks", in *Proceedings of the 2006 International Conference on Parallel and Distributed Systems (ICPADS 2006)*, July 12-15, 2006

34. **Kewei Sha**, Weisong Shi, and Orlando Watkins, "Using Wireless Sensor Networks for Fire Rescue Applications: Requirements and Challenges", in *Proceedings of the 6th IEEE International Conference on Electro/Information Technology*, May 2006

35. Junzhao Du, Weisong Shi, and **Kewei Sha**, "Asymmetry-Aware Link Quality Services in Wireless Sensor Networks", in *Proceedings of the 2005 IFIP International Conference on Embedded and Ubiquitous Computing (EUC-05)*, December 6-9, 2005

36. Weisong Shi, Sivakumar Sellamuthu, **Kewei Sha**, and Loren Schwiebert, "QueryAgent: A General Query Processing Tool for Sensor Networks", in *Workshop Proceedings of International Conference on Parallel Processing (ICPP'04)*, Aug 2004

Poster Papers

1. Ross Niswanger, **Kewei Sha,** and Dorothea C Lerman, "Design of Mixed Reality Dangerous Situations for Autistic Children: Road Safety", in *Proceedings of the 2023 ACM/IEEE CHASE conference*, June 2023, Orlando, FL.

2. Yalong Wu, **Kewei Sha,** and Kwok-Bun Yue, "Blockchain-Enabled Federated Edge Learning for Big Data Quality Assessment", in *Proceedings of the 2022 IEEE/ACM SEC conference, Dec 2022, Seattle, WA*

3. Hui Sun, Yiru Chen, **Kewei Sha**, and Yalong Wu, "Ensemble Federated Edge Learning for Recommender Systems", in *Proceedings of the 2022 IEEE/ACM SEC conference, Dec 2022, Seattle, WA*

4. **Kewei Sha,** Piyush Manghani, and Dorothea C Lerman, "Augmented Reality Game Therapy for Children with Autism Spectrum Disorder", in *Proceedings of the 2022 ACM/IEEE CHASE conference*, Nov 2022, Washington, DC.

5. **Kewei Sha** and Youhuizi Li, "Design of Chord Ring and SDN Based Edge Infrastructure Management System" (3-page poster summary), in *Proceedings of The Fourth ACM/IEEE Symposium on Edge Computing*, Nov 2019, Washington, DC.

6. **Kewei Sha,** Zhandong Liu, and Jack Dempsey, "Augmented Reality Based Therapy System for Social Skill Deficits" (2-page poster summary), in *Proceedings of The Fourth IEEE/ACM Conference on Connected Health: Applications, Systems, and Engineering Technologies (IEEE/ACM CHASE 2019)*, Sep 2019, Washington, DC.

7. Namrata Kayastha and **Kewei Sha**, "A Novel and Efficient Approach to Evaluate Biometric Features for User Identification" (2-page poster summary), in *Proceedings of The Fourth IEEE/ACM Conference on Connected Health: Applications, Systems, and Engineering Technologies (IEEE/ACM CHASE 2019)*, Sep 2019, Washington, DC.
8. **Kewei Sha** and Madhu Kumari, "Patient Identification Based On Wrist Activity Data", in *Proceedings of The Third IEEE/ACM Conference on Connected Health: Applications, Systems, and Engineering Technologies (IEEE/ACM CHASE 2018)*, Sep 2018, Washington, DC.
9. **Kewei Sha,** "EdgeSec: Edge Computing for IoT Security", in *Proceedings of Sustainable Research Pathways Workshop* organized by SHI Sustainable Research Pathways Institute 2017, Dec 2017, Lawrence Berkeley National Laboratory, CA.
10. Naveen Manoharan, **Kewei Sha,** and Jiang Lu, "Exercise Evaluation Using Wrist Sensors"*, in Proceedings of The Second IEEE/ACM Conference on Connected Health: Applications, Systems, and Engineering Technologies (IEEE/ACM CHASE 2017)*, July 2017, Philadelphia, PA.
11. Nitish Kelagote, **Kewei Sha**, Jiang Lu, Lin Sun and Sanobar Kadiwal, "Human Motion Modeling and Evaluation Using Wearable Sensors"*, in Proceedings of the Dual Conference 2016 in Innovation and Automation*, October 2016, Houston, USA.
12. Sanobar Kadiwal, Jiang Lu, **Kewei Sha**, Lin Sun and Nitish Kelagote, "Microsoft Kinect Based Real-time Segmentation and Recognition for Human Activity Learning"*, in Proceedings of the Dual Conference 2016 in Innovation and Automation*, October 2016, Houston, USA.
13. Rohit Reddy, **Kewei Sha,** Jegnesh Gehlot and Robert Greve, "On the Heterogeneity in Mobile Application Development", in *Proceedings of Oklahoma Research Day*, Nov 2011, Lawton, Oklahoma, USA
14. Shinan Wang, **Kewei Sha** and Weisong Shi, "Role-based Deceptive Data Detection and Filtering in WSNs"*, in Proceedings of the 8th ACM/IEEE International Conference on Information Processing in Sensor Networks (IPSN 2009)* (2 page summary), April 13-16, 2009, San/Francisco.
15. **Kewei Sha** and Weisong Shi, "Revisiting the Lifetime of Wireless Sensor Networks", in *Proceedings of the 2nd International Conference on Embedded Networked Sensor Systems (SenSys'04)* (poster), November 3-5, 2004

Supervised Master Thesis

1. Parth Trada, *"Evaluating Sentiment Analysis Mechanisms For Amazon Review"*, May 2023
2. Ritu Kadve, *"Federated Learning To Build Sentiment Analysis Models for Amazon Review Dataset Without Labels"*, May 2023
3. Priyanka Kumari, *"Tagging Negative Review in Amazon Product Review"*, May 2023
4. Sai Ram Vallam Sudhakar, *"An Efficient Classification Algorithm for Gait Authentication based on Streaming Sensory Data"*, May 2021
5. Namarata Kayastha, "Biometrics-based User Identification with Optimal Feature Evaluation and Selection", mater thesis, Dec 2019
6. Mahanad Ramadhan, *"EBMR: Energy-Efficient and Load-Balanced Multipath Routing Protocol for Wireless Sensor Networks"*, master thesis, May 2016
7. Aseel Basheer, *"QAAC: Quality-Assured Adaptive Data Compression for Sensor Data"*, master thesis, Dec 2015

Recent Talks

- *Edge-computing Supported Robust Multi-Robot Systems*, talk at Information Science Brown Bag Research Meeting at University of North Texas, Sep 2023
- *User Identification, Authentication, and Secure Storage*, Invited talk at University of Houston, March 2023
- *ActID: Activity Sensor Based User Identification*, Invited virtual talk at Florida Gulf Coast University, Jan 2023
- *Efficient, Secure, and Privacy-preserving Data Analytics and Sharing*, Invited talk at University of North Texas, Dec 2022

- *Edge Computing Designs for IoT Security,* talk at HSI Summer Camp, July 15, 2022
- *How to write research papers*, invited virtual talk at Anhui University, November, 2021
- *Cybersecurity Research at UHCL*, invited talk at UHCL, October, 2021
- *ActID: An Efficient Framework for Activity Sensor Based User Identification*, Invited virtual talk at Nanjing University of Posts and Communications, May 2021
- *Data Quality Management in IoT,* invited virtual talk at Anhui University, November, 2020
- *Edge Computing Based Designs for Security and Data Analytics,* invited talk at North Carolina Central University, April 28, 2020
- *Edge Computing Based Designs for Security, Performance Optimization, and Data Analytics,* invited talk at Oakland University, January 23, 2020
- *Edge Computing based Security Designs*, invited talk at SIG of InfraGard Defense Industrial Base, Jan 14, 2020
- *An Introduction to NICE Cybersecurity Workforce Framework*, talk at Cybersecurity Education Workshop, April 5, 2019
- *The Design of Network Forensics Course*, talk at Cybersecurity Education Workshop, April 5, 2019
- *Studies on Edge Computing for IoT Security,* invited seminar talk at Wayne State University, March 27, 2019
- *Research on Edge Computing Security,* invited talk at Anhui University, August 2018
- *Home-based Exercise Evaluation Using Wrist Sensors*, Keynote at Healthcare IT 2018 at World Congress & Expo on Healthcare IT, August 2018
- *Security Issues in Edge Computing,* Colloquium talk at University of Houston – Clear Lake, April 23, 2018
- *Introduction to Internet of Things,* Invited talk at Math Center at University of Houston – Clear Lake, September 2017
- *Quality-Assured Adaptive Data Compression for Sensor Data,* Invited talk at Nanjing University of Posts and Communications, June 2017
- *Emerging Cyber Threat: Challenges & Opportunities*, Keynote at University of Houston System Cybersecurity Cyber-Resilience Workshop, March 2017
- *IoT Security: challenges and solutions*, invited talk at Zhejiang Wanli University, January 2017
- *Security Issues in Internet of Things: opportunities and challenges*, invited talk at Ningbo University, January 2017
- *IoT Security: opportunities and solutions*, invited talk at Shanghai University of International Business and Economics, January 2017
- *Security in Internet of Things: vision and challenges*, Invited talk at Anhui University, December 2016
- *Edge Supported Security Services for Internet of Things*, Invited talk at Nanjing University of Posts and Communications, December 2016
- *IoT Security: vision, challenges, and solutions*, Keynote at International Conference on Wireless Communication and Sensor Network (WCSN 2016), December 2016
- *The World of IoT*, invited talk at The Chinese Entrepreneur Association, April 2016
- *IoT Security: Perspectives, Challenges, and Cases* , invited Round Table talk at University of Nebraska at Omaha, April 2016
- *Energy Efficient Data Quality Management in Wireless Sensor Systems*, invited talk at University of Houston – Clear Lake, May 2015
- *A Secure Framework to Read Isolated Devices in Smart Grid*, invited talk at Howard University, Apr 2015
- *Data Quality Management in WSN*, invited talk at Eastern Washington University, Apr 2015
- *Role-based Deceptive Data Detection in VANET,* invited talk at University of Indianapolis, Feb 2015
- *A Cloud-aided Framework for Securely Reading Isolated Devices in Smart Grid*, invited talk at Nanjing University of Posts and Communications, July 2014

- *An Efficient Framework for Data Quality Management*, invited talk at Nanjing University of Posts and Communications, July 2014
- *Data Quality in Wireless Sensor Networks*, invited talk at Oklahoma City University, Oct 2013

Panelist

- *Security Education and Research at UNT,* Cyber Awareness Month Series – Panel Discussion, University of North Texas, September 15, 2023
- *Preparing Competitive NSF Proposals of Engineering and Computing Education,* NSF Proposal Writing Workshop for Hispanic-Serving Institution, 2023 IEEE ASEE Frontiers in Education Conference, College Station, Texas, October 18, 2023
- *Doing Research at UHCL,* Faculty Development Day at University of Houston – Clear Lake, April 6, 2018
- *Security Education and Research at UHCL,* University of Houston System Cybersecurity Cyber-Resilience Workshop, March 10, 2017

Professional and Scholarly Participation

Funding Proposal Reviewer

- NSF Panelist, 2021
- NSF Panelist, 2020
- NSF Panelist, 2017
- Sam Houston State University Research Fund, 2017
- NSF Bluewaters Scholarship, 2014, 2015, 2016, 2017, 2018
- University of Central Oklahoma On-campus Interdisciplinary Grant, 2014
- University of Pisa Research Proposal 2008

Professional Membership
- Senior Member of IEEE
- Senior Member of ACM

Professional Services
- **Editorship**
  - **Associate Editor**
    - IEEE IoT Journal
    - Computing (Springer)
    - Smart Health (Elsevier)
    - Multimedia Tools and Applications (Springer)
    - Computer Systems Science and Engineering
    - Communications of ACSIC
  - **Guest Editor**
    - Special Issue in Advanced Deep Learning and Sensing Techniques for Complex Structural Health Monitoring, Sensors, 2022-2023
    - Special Issue in New Advances in Securing Data and Big Data, Algorithms, 2021-2022
    - Special Issue in Security and Privacy in Internet of Medical Things (IoMT), Security and Communication Networks, 2019-2020
    - Topic collections in Security and Privacy in Smart Connected Health Systems, Journal of Medical Systems, 2018-2019
    - Special Issue in Security of Medical CPS, Elsevier Smart Health, 2017-2018

- Special Issue in Privacy, Security and Trust in Mobile Systems, Journal of Security and Network, 2016
- Special Issue in EAI Endorsed Transactions on Wireless Spectrum, 2016
- Special Issue in Mobile Privacy, Security and Trust, Personal Wireless Communications, 2013

- **Member of Reviewer Board**
  - Future Internet

- **Organization Officer/Secretary**
  - **Founding Board of Directors and Secretary** of **International Autonomous Driving Organization**, 2021 - present
  - Secretary of Technical Committee on the Internet of the IEEE Computer Society (IEEE-CS TCI) (2013 - 2016)

- **Conference Organizing Committee & Chair**
  - **Organizing Committee Advisory Member**, International Conference on Computer Communications and Networks, 2023-
  - **General Chair** of the 2nd IEEE Mobility: Operations, Services, and Technologies (MOST 2024)
  - **General Chair** of the 8th IEEE Symposium on Edge Computing (SEC 2023)
  - **General Chair** of the 6th IEEE/ACM Conference on Connected Health: Applications, Systems and Engineering Technology (CHASE 2021)
  - **Workshop General Chair** of The International Conference on Computer Communications and Networks (ICCCN 2018-2024)
  - **Conference General Co-Chair** of the Third International Conference on Wireless Communication and Sensor Network (WCSN 2016)
  - **Technical Program Chair** of The 24th International Conference on Computer Communications and Networks (ICCCN 2015)
  - **Symposium Chair of** The 2019 International Conference on Computing, Networking and Communications (ICNC 2019)
  - **Track Chair of** The 26th International Conference on Computer Communications and Networks (IEEE ICCCN 2017)
  - **Workshop General Chair** of The 22nd International Conference on Computer Communications and Networks (ICCCN 2013)
  - **Student Travel Grant Chair**
    - The 14th IEEE International Conference on Sensing, Communication and Networking (IEEE SECON 2017)
    - The 2nd IEEE/ACM Conference on Connected Health: Applications, Systems and Engineering Technology (CHASE 2017)
    - The 25th International Conference on Computer Communications and Networks (ICCCN 2016)
  - **Publication Chair**
    - The First IEEE International Conference on Mobility: Operations, Services, and Technologies (MOST 2023)
    - The ACM/IEEE Symposium on Edge Computing (SEC 2020-2022)
    - The IEEE International Conference on Connected and Autonomous Driving (MetroCAD 2020-2022)
    - The IEEE/ACM Conference on Connected Health: Applications, Systems and Engineering Technology (2017-2020)
  - **Workshop Co-Chair**
    - The International Workshop on Security, Privacy, and Trustworthiness in Medical Cyber Physical Systems (MedSPT 2016-2018)
    - University of Houston System Cybersecurity Cyber-Resilience Workshop, 2017

- The International Workshop on Privacy, Security and Trust in Mobile and Wireless Systems (MobiPST 2011, 2012, 2014)
  - o **Session Chair**
    - The 8th IEEE Symposium on Edge Computing (SEC 2023)
    - The First IEEE International Conference on Mobility: Operations, Services, and Technologies (MOST 2023)
    - The International Conference on Computer Communications and Networks (ICCCN 2011, 2013-2017, 2020)
    - The 4th IEEE/ACM Conference on Connected Health: Applications, Systems and Engineering Technology (CHASE 2019)
    - The 17th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing (CCGrid 2017)
    - The 3rd International Workshop on Context-aware QoS Provisioning and Management for Emerging Networks, Applications and Services (ContextQoS 2013)
    - The International Conference on Collaborative Computing (CollaborateCom 2008-2009)
  - o **Publicity Chair**
    - International Conference on Computing, Networking and Communications (ICNC 2017)
    - The 2017 International Conference on Applications and Techniques in Cyber Intelligence (ATCI 2017)
    - 2013 International Workshop on Mobile Cloud Computing Technologies and Applications (MCCTA 2013)
    - The 3rd International Workshop on Privacy, Security and Trust in Mobile and Wireless Systems (MobiPST 2013)

- **TPC member**
  - o 2024 IEEE World Forum on Public Safety Technology (WF-PST)
  - o IEEE International Conference On Artificial Intelligence Testing (AITesting 2024)
  - o The IEEE International Conference on Communications (IEEE ICC 2016，2019-2021, 2023-2024)
  - o International Conference on Computing, Networking and Communications (ICNC 2023-2024)
  - o The 8th IEEE International Conference on Intelligent Data and Security (IEEE IDS 2022)
  - o The 15th International Conference on Knowledge Science, Engineering and Management (KSEM 2022)
  - o The IEEE/ACM Conference on Connected Health: Applications, Systems and Engineering Technology (CHASE 2018-2021)
  - o 2021 4th International Conference on Computer Applications & Information Security (ICCAIS'2021)
  - o The International Conference on Computer Communications and Networks (ICCCN 2013，2015-2017，2020-2021)
  - o International Conference on Algorithms and Architectures for Parallel Processing (ICA3PP 2020)
  - o The International Conference on Wireless Algorithms, Systems, and Applications (WASA 2016-2021)
  - o The 2020 International Conference on Computing, Networking and Communications (ICNC 2020)
  - o The 25th IEEE International Conference on Parallel and Distributed Systems (ICPADS 2019)
  - o The 4th IEEE International Conference on Intelligent Data and Security (IEEE IDS 2019)

- The IEEE International Conference on Computational Science and Engineering (IEEE CSE 2012-2013，2019)
- The International Conference on Green, Pervasive and Cloud Computing (GPC 2013，2015，2017-2019)
- National Cyber Summit (NCS 2018-2021)
- The 2nd International Workshop on Attacks and Defenses for Internet-of-Things (ADIoT 2019)
- The IEEE International Conference on Ubiquitous Computing and Communications (IEEE IUCC 2017-2018)
- The IEEE International Conference on Trust, Security and Privacy in Computing and Communications (IEEE TrustCom 2016-2018)
- The 2017 IEEE International Conference on Collaboration and Internet Computing (IEEE CIC 2015-2017)
- The IEEE Conference on Local Computer Networks (IEEE LCN 2016-2017)
- International Conference on Agents and Artificial Intelligence 2017
- The International Workshop on Cloud Storage Service and Computing, 2016-2017
- 2017 IEEE WCNC Workshop on M2M Communications and the Internet of Things
- The 35th IEEE International Performance, Computing, and Communication Conference (IPCCC 2016)
- The annual International Conference on Distributed Computing in Sensor Systems (DCOSS 2016)
- The International Conference on Security of Smart Cities, Industrial Control System and Communications (SSIC 2016)
- The 2015 Global Conference on Information Technology, Computing, and Applications (Global IT 2015)
- The Third International Symposium on Security in Computing and Communications (SSCC'15)
- The Sixth International Conference on Mobile Computing, Applications and Services (MobiCASE 2014)
- The 5th International Conference on Creative Converged IT (CCIT 2014)
- The IEEE International Conference on High Performance Computing and Communications (IEEE HPCC 2013-2014)
- The 2014 FTRA International Symposium on Ubiquitous Green IT Systems (U-GIT 2014)
- The 2014 IEEE International Conference on Systems, Man, and Cybernetics (IEEE SMC 2014)
- The IEEE International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom 2009-2014)
- The Workshop on Big Data and e-Health, 2014
- The International Conference on Ambient Systems, Networks and Technologies (ANT), 2013
- The International Workshop on Internet of Ubiquitous and Pervasive Things (IUPT 2011-2014)
- The International Workshop on Data Management for Cyber Physical System (DM-CPS), 2013
- The World Conference on Information Systems and Technologies (WorldCIST) 2013
- The International Conference on Advanced Collaborative Networks, Systems and Applications (COLLA 2011-2014)
- The International Conference on Advanced Engineering Computing and Applications in Sciences (ADVCOMP 2011-2014)
- The International Conference on Mobile Web Information Systems (MobiWIS) 2012
- The International Workshop on Sensor Networks (SN) 2012
- The IEEE International Conference on Scalable Computing and Communications (IEEE ScalCom) 2012

- The IEEE International Conference on Wireless Communications, Networking and Information Security (IEEE WCNIS) 2010
- The IEEE International Workshop on Mobile Cyber-Physical Systems (MobiCPS) 2010
- The IEEE International Conference on Green Computing and Communications (IEEE GreenCom) 2010
- The International Workshop on Wireless Ad hoc and Sensor Networking (WWASN 2011)

- **Journal Reviewer**
  - IEEE Transactions on Emerging Topics in Computing, 2023
  - IEEE Transactions on Vehicular Technology, 2016-2023
  - ACM Transactions on Internet of Things, 2021-2022
  - IEEE Internet of Things Journal, 2016- 2023
  - IEEE Transactions on Green Communications and Networking, 2021
  - IEEE Sensor Journal, 2020
  - IEEE Transactions on Smart Grid, 2020
  - IEEE Journal of Selected Areas in Communications, 2020
  - IEEE Transactions on Information Forensics & Security, 2020
  - ACM Transactions on Computing for Healthcare, 2019-2021
  - IEEE Internet Computing, 2019, 2020, 2023
  - IEEE Transactions on Big Data, 2017, 2018, 2020
  - IEEE Transactions on Industrial Informatics, 2018, 2019
  - IEEE Transactions on Service Computing, 2017- 2019, 2021, 2023
  - IEEE Transactions on Network Science and Engineering, 2018, 2020
  - IEEE Transactions on Dependable and Secure Computing, 2014, 2020
  - IEEE Network Magazine, 2020-2023
  - IEEE Journal of Biomedical and Health Informatics, 2023
  - Multimedia Tools and Applications, 2023
  - International Journal of Machine Learning and Cybernetics, 2020
  - Digital Communications and Networks, 2020
  - Wireless Communications and Mobile Computing, 2020
  - Computers, Materials & Continua, 2020
  - Information Systems Frontiers, 2020
  - ACM Transactions on Information Technology (TOIT), 2016-2017, 2019-2021
  - IEEE ACCESS, 2017-2019
  - Transactions on Emerging Telecommunications Technologies, 2019
  - IEEE Transactions on Engineering Management, 2018
  - IEEE Communications Letters, 2018
  - IEEE Transactions on Mobile Computing, 2017, 2018
  - IEEE/ACM Transactions on Networks, 2017, 2018
  - IEEE Transactions on Parallel and Distributed Systems (TPDS) 2008, 2010-2017
  - IEEE Transactions on Cloud Computing, 2017
  - IEEE System Journal, 2015, 2018
  - Elsevier Smart Health, 2017-2022
  - Future Generation Computer Systems, 2018
  - Journal of Network and Computer Applications, 2018
  - IEEE Reviews in Biomedical Engineering, 2018
  - Journal of Parallel and Distributed Computing (JPDC) 2007, 2010, 2011, 2018
  - Sustainable Computing, Informatics and Systems, 2017
  - EURASIP Journal on Wireless Communications and Networking, 2017, 2018
  - IEEE Sensor Journal, 2016
  - IEEE Internet Journal, 2016
  - Computing (COMP), 2013, 2017, 2018
  - International Journal of Communication Systems, 2017
  - Security and Communication Networks, 2017, 2022
  - Computational Intelligence, 2016

- Sensors, 2016, 2017
- Elsevie's Computer Networks (ComNet) 2011, 2014, 2016, 2017, 2018
- Elsevier's Computer Communications Journal (ComCom) 2008. 2011, 2012, 2013, 2014, 2016, 2020
- Wireless Networks, 2016
- Ad Hoc Networks 2013, 2014, 2015, 2016
- Future Internet, 2022
- IEEE Transactions on Computers, 2013
- IEEE Transactions on Intelligent Transportation Systems (TITS), 2013, 2023
- International Journal of Security and Networks, 2015, 2016
- International Journal of Ad Hoc and Ubiquitous Computing 2009, 2010, 2013, 2016
- Wireless Personal Communications (WIRE) 2009-2014,2016
- IET Wireless Sensor Systems, 2015
- ETRI Journal 2014
- Journal of Systems Architecture, 2012, 2013
- Journal of Network and Computer Applications 2013, 2014
- International Journal of Sensor Networks (IJSNet) 2009, 2012-2014, 2016-2017
- Journal of Sensors 2009, 2012, 2014, 2015
- Mobile Networks and Applications (MONE), 2010, 2011, 2013
- International Journal On Advances in Intelligent Systems 2012-2014
- International Journal On Advances in Software 2012-2014
- International Journal of Parallel, Emergent and Distributed Systems, 2012
- IST 2012
- BMC Bioinformatics, 2012
- International Journal of Systems Science, 2010
- International Journal of Distributed Sensor Networks (IJDSN), 2011
- Journal of Computer Networks and Communications (JCNC), 2011
- Mathematical and Computer Modeling (MCM), 2010, 2011
- International Journal of Internet Protocol Technology (IJIPT) 2010
- International Journal of Intelligent Engineering & Systems 2009
- ACM Transactions on Autonomous Adaptive Systems (ACM TAAS) 2008
- Journal of Computer Science and Technology (JCST) 2008, 2010
- Journal of Computers and Applications 2007

- **Other Services**
  - Judge, UHCL STEM Challenge, 2022
  - Ph.D. dissertation committee member, Wayne State University, 2022-
  - Sponsor, Clear Lake High School STEM Challenger Team, 2022
  - Mentor, programming training for high school students, 2020
  - Board Member of Bay Area Youth Symphony, 2021
  - Mentor of High School Independent Study in IoT, 2021-2022
  - Invited External Reviewer of faculty promotion and tenure, University of Washington Bothell
  - Invited External Reviewer of faculty promotion and tenure, Saint Joseph's University
  - Invited External Reviewer of faculty promotion and tenure, University of Nebraska–Omaha
  - Invited External Reviewer of faculty promotion and tenure, Lewis University
  - Invited External Reviewer of faculty promotion and tenure, University of Massachusetts Boston
  - Judge of InnoSTARS Competition, 2018
  - Judge of FIRST Robotics Competition, Oklahoma Region, 2013, 2014

University Services

New Program Development
- *MS. in Data Science,* University of Houston-Clear Lake
- *Minor in Cybersecurity for Computer Science Students,* University of Houston-Clear Lake

University Systems, University, College and Department Service

- Member, Data Science Faculty Search Committee at UNT, 2023-2024
- Member, External Affairs & Physical Resources Committee at UNT, 2023-2024
- Member, UH Systems Vice Chancellor/Vice President for Research Search Committee, 2023
- Faculty Advisor, UHCL ACM Chapter, 2021 - 2023
- Member, UHCL President's outstanding faculty award committee, 2020
- Member, College of Science and Engineering (CSE) FDF Committee at UHCL, 2021- 2023
- Member, CSE Mentoring Committee at UHCL 2021- 2023
- Member, CSE Graduate Research Assistant Committee at UHCL, 2017-2018
- Member, CSE Committee of Computing, Library, Research Services at UHCL, 2019-2021
- Member, CSE Policy and Advisory Committee at UHCL, 2019-2021
- Member, Computer Science (CS) New Faculty Search Committee at UHCL, 2022
- Member, Data Science (DS) New Faculty Search Committee at UHCL, 2022
- Member, CS Promotion and Tenure Review Committee at UHCL, 2021
- Member, Computer Engineering (CE) Promotion and Tenure Review Committee at UHCL, 2020
- Member, DS Committee at UHCL, 2020- 2023
- Member, DS Admission Committee at UHCL, 2020- 2023
- Member, DS Waiver Committee at UHCL, 2020 - 2023
- Member, CS Cybersecurity Committee at UHCL, 2017-2023
- Member, Writing Committee of Computing Sciences at UHCL, 2017-2019
- Member, CS Course Committee at UHCL, 2016-2023