TEXAS STATE VITA

I. Academic/Professional Background

A. Name: Xiao Chen Title: Associate Professor

B. Educational Background

Degree	Year	University	Major	Thesis/Dissertation
Ph.D.	1999	Florida Atlantic University	Computer Engineering	Fault-Tolerant Routing in 2-D & 3-D Meshes
Master	1995	Shanghai University	Computer Science	Checking the Correctness of Z Schemas
Bachelor	1992	Shanghai University	Computer Science	

C. University Experience

Position	University	Dates
Associate Professor	Texas State University	8/2005 to present
Visiting Researcher	University of Texas at Austin	9/2013-1/2014
Research Associate	U.S. Naval Postgraduate School	5/2010 to 8/2010
Research Associate	U.S. Naval Postgraduate School	6/2009 to 8/2009
Assistant Professor	Texas State University	8/1999 to 8/2005
Teaching Assistant	Florida Atlantic University	1/1996 to 8/1999

II. TEACHING

A. Teaching Honors and Awards

I have been recognized by the following students as a faculty member that they felt contributed significantly to their success and development.

- Lavanya Tammineni - 2016
- Andrew Rohn - 2015
- Gregory Newton - 2015
- Manuel Del Rio - 2015
- Pavithra Badrinarayanan
- Jeremy A Connell
- Zanxun Dai
- Arvindha Gasikanti
- Durga Priya Goday
- Sai Gorantla

- Taylor L Groves
- Avinash Reddy Nandyala
- Sailaja Vellanki
- Kyle J Sullivan

B. Courses Taught

1. Ph.D. Level Courses

- Mobile Networks & Computing (CS 7343) – Texas State University

Semester	Section	Enrollment
Fall 2025	001	22
Fall 2024	001	10
Fall 2023	001	6
Fall 2022	001	7
Fall 2020	001	5
Spring 2019	251	6

2. Graduate Level Courses

- Thesis (CS 5399) – Texas State University

Semester	Section	Enrollment
Spring 2021 5399A	255	1
Spring 2017 5199B	503	1
Spring 2017 5199B	253	1
Fall 2016 5199B	002	1
Spring 2016 5399B	0251	1
Fall 2015 CS 5399A	005	1
Fall 2014 CS 5399B	0001	1
Spring 2014 CS 5399B	0252	1
Fall 2013 CS 5399A	0002	1
Spring 2013 CS 5399B	0260	1

- Independent Study in Advanced Computer Science (CS 5395) – Texas State University

Semester	Section	Enrollment
Fall 2014	0002	1
Fall 2010	0001	1
Spring 2010	0253	1
Fall 2009	0004	2
Spring 2009	0253	1
Spring 2009	0257	1

- Advanced Software Engineering Project (CS 5394) – Texas State University

Semester	Section	Enrollment
Summer 2025	751	21
Summer 2024	751	24
Summer 2023	751	16
Summer 2023	751	9
Summer 2022	751	13
Summer 2022	752	10
Summer 2021	752	14
Summer 2021	752	6

- Survey of Software Engineering (CS 5391) – Texas State University

Semester	Section	Enrollment
Fall 2025	001 & R02	18
Spring 2025	251	14
Fall 2024	001	35
Fall 2024	002	7
Spring 2024	251	42
Spring 2024	252	7
Spring 2023	251	38
Spring 2023	252	6
Fall 2023	001	37
Fall 2023	002	10
Fall 2022	001	39
Fall 2022	002	29
Fall 2020	001	13
Fall 2020	002	7
Summer 2020	751	5
Summer 2020	752	9
Fall 2019	001	25
Fall 2019	002	8
Summer 2019	751	6
Summer 2019	752	10
Spring 2018	751	26
Spring 2018	752	10
Summer 2017	751	6
Summer 2017	752	1
Spring 2017	0251	3
Spring 2017	0252	12
Fall 2016	001	6
Fall 2016	002	22
Summer 2016	751	5
Summer 2016	752	2
Spring 2016	0251	7
Spring 2016	0252	10
Fall 2015	001	6

Fall 2015	002	23
Summer 2015	751	7
Summer 2015	752	2
Spring 2015	251	13
Spring 2015	252	29
Fall 2014	0001	13
Fall 2014	0002	30
Summer 2014	0751	17
Summer 2014	0752	14
Summer 2013	0751	4
Spring 2013	0251	4
Spring 2013	0252	12
Fall 2012	0001	9
Fall 2012	0002	10
Summer 2012	0751	11
Spring 2012	0251	3
Spring 2012	0252	9
Fall 2011	0001	31
Fall 2011	0002	10
Summer 2011	0751	7
Spring 2011	0251	19
Spring 2011	0252	8
Spring 2010	0251	12
Spring 2010	0252	20
Spring 2009	0251	19
Spring 2009	0252	13
Spring 2008	0251	15
Spring 2008	0252	4
Spring 2003	0251	24
Spring 2003	0252	7
Spring 2002	0251	24
Spring 2002	0252	8
Spring 2001	0001	26

- Advanced Data Structures (CS 5328) – Texas State University

Semester	**Section**	**Enrollment**
Fall 2005	0001	8

- Advanced Operating Systems (CS 5306) – Texas State University

Semester	**Section**	**Enrollment**
Fall 2017	0001	14
Fall 2017	0002	35
Fall 2007	0251	10
Summer 2005	0251	8
Fall 2004	0251	15

Summer 2004	0251	9
Summer 2003	0251	18
Summer 2002	0251	26
Fall 2001	0251	18
Summer 2001	0251	23
Summer 2000	0251	38
Fall 1999	0251	39

- Foundation of Operating Systems (CS 5305)– Texas State University

Semester	**Section**	**Enrollment**
Summer 2024	751	2
Summer 2023	751	1
Summer 2022	751	1
Spring 2022	251	6
Spring 2021	251	8
Fall 2019	001	4
Summer 2019	751	3

3. Undergraduate Level Courses

- Software Engineering Project (CS 4398) – Texas State University

Semester	**Section**	**Enrollment**
Summer 2025	751	27
Summer 2024	751	17
Summer 2023	751	21
Summer 2023	752	17
Summer 2022	751	23
Summer 2022	752	23
Summer 2021	751	25
Summer 2021	752	21
Summer 2004	251	9
Summer 2003	252	5
Summer 2002	251	21
Summer 2001	251	26
Spring 2000	251	31

- Object-Oriented Design and Implementation (CS 4354) – Texas State University

Semester	**Section**	**Enrollment**
Summer 2012	0751	21
Summer 2011	0752	24
Fall 2010	0001	39
Fall 2008	0001	13

- Operating Systems (CS 4328) – Texas State University

Semester	Section	Enrollment

Summer 2025	751	17
Summer 2024	751	39
Summer 2023	751	43
Summer 2022	751	37
Spring 2022	252	66
Summer 2021	751	43
Spring 2021	252	57
Summer 2020	751	47
Spring 2020	252	43
Fall 2019	003	54
Summer 2019	751	53
Fall 2017	002	57
Summer 2017	751	23
Fall 2016	002	37
Summer 2016	751	33
Fall 2015	002	41
Summer 2015	751	13
Fall 2014	0001	33
Summer 2014	0751	27
Summer 2013	0751	20
Fall 2012	0001	26
Spring 2010	0251	20
Spring 2009	0251	24
Spring 2008	0251	16
Fall 2007	0001	27
Spring 2006	0001	29
Fall 2005	0001	12
Fall 2005	0003	17
Summer 2005	0251	14
Spring 2005	0252	24
Spring 2005	0253	17
Fall 2004	0001	20
Fall 2004	0002	18
Spring 2004	0001	28
Fall 2003	0001	17
Fall 2003	0002	22
Spring 2003	0251	29
Spring 2003	0252	29
Spring 2002	0251	34
Spring 2002	0252	29

- Computer Networks (CS 4310) – Texas State University

Semester	**Section**	**Enrollment**
Spring 2025	252	24
Spring 2024	251	31

Spring 2024	252	30
Spring 2023	251	14
Spring 2022	251	42
Spring 2021	251	54
Spring 2020	251	28
Spring 2019	251	22
Spring 2018	251	35
Spring 2015	251	24

- Software Engineering (CS 3398) – Texas State University

Semester	**Section**	**Enrollment**
Spring 2017	0252	39
Spring 2016	0252	40
Fall 2011	0001	35
Fall 2011	0002	10
Spring 2011	0252	23
Fall 2010	0001	8
Fall 2009	0001	10
Fall 2009	0002	25
Fall 2008	0001	6
Spring 2007	0251	29
Spring 2007	0252	7
Fall 2002	0001	30
Fall 2002	0002	22
Fall 2001	0001	20
Fall 2001	0002	33
Spring 2001	0001	45
Fall 2000	0001	29
Fall 2000	0002	30
Spring 2000	0001	38
Fall 1999	0001	36

- Introduction to programming in C (COP 2220) – Florida Atlantic University (1995-1999)

Semester	**Enrollment (Approx.)**
Spring 1999	30
Fall 1998	30
Summer 1998	30
Spring 1998	30
Fall 1997	30
Summer 1997	30
Spring 1997	30
Fall 1996	30

C. Graduate Theses/Dissertations or Exit Committees (if supervisor, please indicate)

1. Graduate Theses Supervision

- Tianyi Gao, “Auction-Based Time Scheduling Cognitive Radio Network and Utilization of Game Theory,” serves as thesis advisor. Spring 2021.

- Rahul Narendrasing Girase, “Friend Circle and Social Feature-based Routing in Opportunistic Mobile Social Networks,” serves as thesis advisor. Completed on 7/5/2017.

- Yuan Xu, “Multicast in Mobile Social Networks,” serves as thesis advisor. Completed on 10/20/2014.

- Zanxun Dai, “Routing Protocols in Wireless Heterogeneous Sensor Networks,” serves as thesis advisor. Completed in 2013.

- Anil Maddiboina, “Routing Protocol Design and Simulation in MANETS,” serves as thesis advisor. Completed.

2. Graduate Theses/Dissertations Committees

- M. M. Mahabubur, “Scalable Approximate Nearest Neighbor Search for High-dimensional Deep Descriptor Retrieval with Applications in Scientific Imaging and Multi-modal Data Analysis”, 5/12/2026 (Ph.D. dissertation defense).

- Mohammad Ali, “Towards Robust HPC Datasets: Generative AI for Synthetic Data Augmentation”, Ph.D. dissertation, 1/26/2026.

- Wasay Mohammed Abdul, “Towards Characterizing Machine Learning Contracts Using Large Language Models”, MS Thesis, 11/10/2025.

- Jason High, “Runtime Verification of Performance Isolation in the Cloud”, 11/7/2025 (Ph.D. dissertation presentation).

- Tianning She, “Precise Scheduling of Mixed-Criticality tasks in Real-Time Systems”, 2:00 pm-3:30 pm, 9/8/2022 (Ph.D. dissertation proposal presentation). Participated in the dissertation defense from 12:00 pm – 1:30 pm, 7/24/2025.

- Ramses Sotelo Jimenez, “COMPA: A Comparative Retrieval and Analytical Engine for Consumer Products”, 12/2/2021 (defense).

- Tian Liang, “Setting Priority Points for Global EDF-like Schedulers on Multiprocessors”, 4/15/2021 (defense).

- Zachary P. Languell, “Securing the ADS-B Protocol for Attack-resilient Multiple UAV Collision Avoidance”, 2018-4/4/2019 (defense).

- Sotelo Jimenez, Ramses J, “Implementing a Comparative Search and Analytical Engine”, serve as committee member. 2018.

- Junye Wen, “Distributed Symbolic Execution for Property Checking”, serve as committee member. Completed on 4/4/2017.

- Anthony Amaro, Jr., “Improving Bandwidth Allocation in Cloud Computing Environments via Bandwidth as a Service Partitioning Scheme”, serve as committee member, July 2016.

- YuXiang Ye, “Intelligent Human Sketch Understanding,” serve as committee member. Completed in 2016.

- Shuvabrate Saha, “A multi-objective autotuning framework for the Java Virtual Machine,” serve as committee member. Completed in 2016.

- Terrence T Penner, “Bandits in the Cloud: A Moving Target Defense Against Multi-Armed Bandit Attack Policies,” serve as committee member. In-Process.

- Lavanya Tammineni, “Collaborative Computing in Mobile Clouds,” serve as committee member. Completed in 2015.

- Terry Penner, “Ensuring Safe Code Execution Across Multiple Devices,” serve as committee member. Completed in 2015.
- Alejandro Ramirez, “Load Balancing SCTP over Multiple Interfaces Using MultiStreaming,” serve as committee member. Completed in 2015.

- Feroza Khatun, serve as committee member. Completed.

- Divya Misra, “A Platform for Predicting the Survival of Man-made Structures during Wild Fire,” served as committee member. Completed.

- Swapneela Unkule, “Exploiting Shared-Memory Reuse through Source-Level Transformation of CUDA Kernels,” served as committee member. Completed.

- Meng Xie, “Improving Ant-Colony Optimization Bared In-network Data Aggregation in Wireless Sensor Networks,” served as committee member. Completed.

- Ukwatta K. S Jayarathna, “Two dimensional oculomotor plant mechanical model,” served as committee member. Completed.

- Elizabeth O. Oyeyipo, “An empirical study of requirements management in an agile-scrum development environment,” served as committee member. Completed.

- Heywoong Kim, “A simulation framework for performance evaluation and security research in multi-interface multi-channel networks,” served as committee member. Completed.

- Hamza Sheikh, “Spatial query processing without using geometric algorithms,” served as committee member. Completed.

- Karthik Radhakrishnan, “Automated test case generation for web services based on declarative specification of the processes of their use,” served as committee member. Completed.

- Christian De Sousa, “A Project Simulator to evaluate Development Processes,” served as committee member. Completed.

- Michael Pierre Carlson, “Experimental Study on the Use of Semantic Web Concepts for Matching and Assembling Rich Client Composite Applications,” served as committee member. Completed.

- Joshua A. Magee, “Automated Compiler Driven Superpage Allocation and its Applications,” served as committee member. Completed.

- Jason Michlowitz, “A Methodology for Mapping Programming Problems to Suitable Programming Languages,” served as committee member. Completed.

- Zhitong Zhao, “Dynamic Web Service Invocation,” served as committee member. Completed.

- Mei Li, “Solving Readers and Writers Problem with the Hierarchical Lock Approach using Semaphores,” served as committee member. Completed.
- Yutu Liu, “QOS Computation and Policing in Dynamic WEB Service Selection,” served as committee member. Completed.

- Sandesh Doddameti, “Knowledge Discovery Using Neural Networks,” served as committee member. Completed.

- Huibo Ma, “Specification Based Firewall Testing,” served as committee member. Completed.

- Yunhong Jiang, “Performance Comparison of Three Token-Based Mutual Exclusion Algorithms in a Simulated Distributed Computing Environment,” served as committee member. Completed.

- Jimmy Qin, “A Quantitative Analysis of China Internet Usage: Effective E-Business Marketing on Structural Equation Model,” Ph.D. dissertation, serve as dissertation committee member, Touro University International.

D. Courses Prepared and Curriculum Development

- CS 7343 Mobile Networks and Computing – developed the Ph.D. Course, Texas State University.

- Computer Networks (CS 4310) – Texas State University

- Survey of Software Engineering (CS 5391) – Texas State University

- Advanced Operating Systems (CS 5306) – Texas State University

- Independent Study in Advanced Computer Science (CS 4395) – Texas State University

- Software Engineering Project (CS 4398) – Texas State University

- Object-Oriented Design and Implementation (CS 4354) – Texas State University
- Operating Systems (CS 4328) – Texas State University
- Software Engineering (CS 3398) – Texas State University
- Introduction to programming in C – Florida Atlantic University
- Wrote course descriptions and titles for the incoming Ph.D.-level courses Computer Networking Research and Mobile Network and Computing.

E. Funded External Teaching Grants and Contracts

- NSF/IEEE-TCPP Curriculum Initiative on Parallel and Distributed Computing (G), Early Adopter Award, X. Chen (PI), $2,000, Fall 2015-2016.

F. Other

- Supervised undergraduate students Seth Brozdzik and Michael Paulson on research in Edge Computing in the NSF REU program 2022 and a paper has been published by IEEE High Performance and Smart Computing, 2023.
- Supervised undergraduate students Brandon Burtchell and Michael Finch on research in Smart & Connected Communities in the NSF REU program 2021 and a paper has been written and is ready to submit, 2021.
- Guided and instructed Brandon Burtchell every week via Zoom on his application to NSF Graduate Research Fellowship program, 09/2021-10/2021.
- Supervised undergraduate students Griffith Samore and Jonah Bates on research in Smart & Connected Communities in the NSF REU program 2020 and a paper has been published by IEEE International Conference on Intelligent Data and Security, 2021.
- Awarded a certificate for completing the Office of Distance and Extended Learning Teaching Online at Texas State - Hybrid in summer 2020.
- Supervised undergraduate students Kameron Carr and Jacob Rojas on research in Smart & Connected Communities in the NSF REU program and had a paper published in the proceedings of IEEE MASS REUNS, summer, 2019.
- Supervised high school student Bo Deng from Vandegrift high school and had a paper published by IEEE ICNC with an acceptance rate of 26%, 2017.
- Supervised graduate students Bhavya Ramakrishna, Anusha Vattam and Jyothesh Kongara on research, Fall 2015.
- Supervised undergraduate research students: Nicholas Symons and Brandy Warwick, Spring 2015-2016.

- Supervised undergraduate research student: Tye Hetherington, Spring 2015.
- Supervised independent study student: Andrew Rohn, Fall 2014.
- Supervised undergraduate students Charles Shang and Britney Wong on research in Cyber-Physical Systems in the REU program, summer, 2014.
- Supervised graduate student Chengyin Liu at Sun Yat-Sen University on Mobile Social Networks, 2014.
- Supervised undergraduate students Zane Sumpter and Lucas Burson from Wichita State University on Wireless Sensor Networks, 2013.
- Supervised Casandra Martin and Jonathan Whalen on research in Cyber-Physical Systems in the REU program, summer, 2013.
- Supervised Daniel Rothfus and Christina Dunning on research in mobile social networks in the REU program, summer, 2012. (**Department best project award**)
- Supervised undergraduate student Rachel Whitton (NASA intern) on research in sensor networks, 2011.
- Supervised Yuefei Hu and Xin Chen from Nanjing University on Heterogeneous Sensor Networks, 2010.
- Supervised undergraduate student John Curran on research in sensor networks, 2010.
- Supervised undergraduate student Taylor Groves (now working at Lawrence Berkeley National Laboratory after obtaining his Ph.D.) on Delay Tolerant Network research project, 2009.
- Supervised independent study graduate students on research: Arvindha Gasikanti, Viswanath Ijanagiri, Deepthi Komati, Deepthi Kurra, Deepa Kini, Sridhar Vana.

III. SCHOLARLY/CREATIVE

A. Works in Print

1. Chapters in Books

- W. Li, S. Lu, K. Zhu, X. Chen, J. Nagler, X. Fu, “Information Dissemination in Social-Featured Opportunistic Networks,” Social Network Analysis: Interdisciplinary Approaches and Case Studies, Chapter 13, CRC Press, Taylor & Francis Group, February 17, 2017, ISBN 9781498736640.
- X. Chen, Y. Xu, S. Oh, “Social-Similarity-based Multicast Framework in Opportunistic Mobile Social Networks”, Security, Privacy and Reliability in Computer Communications and Networks, December 2016, p. 343-363.

- X. Chen and J. Shen, “Maximum Necessary Hop Count for Packet Routing in MANET, Theoretical and Algorithmic Aspects of Sensor,” Ad Hoc Wireless and Peer-to-Peer Networks, CRC Press, 2005.

- X. Chen and J. Wu, “Multicasting Techniques in Mobile Ad Hoc Networks,” Handbook of Ad Hoc Wireless Networks, M. Ilyas and B. Furht (eds.), CRC Press, 2003.

- J. Wu and X. Chen, “A Fault-Tolerant and Time-Step Optimal Multicasting in 2-D Meshes,” Dependable Network Computing, Kluwer Academic Publishers, 2000.

2. Refereed Journal Articles

- M. M. Rahman, D. Biswas, X. Chen, J. Tesic “Image Deduplication Using Efficient Visual Indexing and Retrieval: Optimizing Storage, Time and Energy for Deep Neural Network Training”, Signal, Image and Video Processing, Springer, 2024.

- W. Li, X. Chen, S. Lu “Content Synchronization using Device-to-Device Communication in SMART Cities”, Computer Networks, Vol. 120, 2017, p. 170-185. Ranking: A.

- X. Chen, C. Shang, B. Wong, W. Li, S. Oh, “Efficient Multicast Algorithms in Opportunistic Mobile Social Networks using Community and Social Features”, Computer Networks journal, 111C, 2016, p. 71-81. Ranking: A.

- X. Chen, Z. X. Dai, W. Z. Li, H. C. Shi, “Performance Guaranteed Routing Protocols for Asymmetric Sensor Networks,” IEEE Transactions on Emerging Topics in Computing, Vol. 1, Issue 1, 2013, p. 111-120. Ranking: A.

- X. Chen, Z. X. Dai, W. Z. Li, Y. F. Hu, J. Wu, H. C. Shi and S. L. Lu, “ProHet: A Routing Protocol with Assured Delivery Rate in Heterogeneous Sensor Networks,” IEEE Transactions on Wireless Communication, Vol. 12, Issue 4, 2013, p. 1524-1531. Ranking: A.

- X. Chen, N. Rowe, “Energy-Efficient Communication in Wireless Cable Sensor Networks,” International Journal of Parallel, Emergent, and Distributed Systems, Taylor & Francis, Vol. 28, Issue 4, 2013, p. 289-307.

- X. Chen, N. Rowe, J. Wu and K. Q. Xiong, “Improving Objects Localization by Their Spatio-Temporal Relationships in Wireless Sensor Networks,” Journal of Parallel and Distributed Computing, Vol. 72, Issue 8, August 2012, p. 1008-1018. Ranking: A+.

- X. Chen, Q. J. Gu, Z. Jiang and J. Wu, “Fast Mobility Control Protocols with Sink Location Protection in Wireless Sensor Networks,” International Journal of Internet Protocol Technology, Inderscience, Vol. 6, Nos. 1 /2, 2011, p. 3-17.

- X. Chen, J. Shen, and J. Wu, “Probabilistic Routing in Delay Tolerant Networks,” International Journal of Parallel, Emergent, and Distributed Systems, Taylor & Francis, Vol. 26, Issue 5, 2011, p. 331-345.

- X. Chen, J. Shen and J. Wu, “Improving Routing Protocol Performance in Delay Tolerant Networks using Extended Information,” Journal of Systems and Software, Elsevier, Vol. 83, No. 8, August 2010, p. 1301-1309.

- X. Chen, “Data Replication Approaches for Ad Hoc Wireless Networks Satisfying Time Constraints,” International Journal of Parallel, Emergent, and Distributed Systems, Taylor & Francis, Vol. 22, Issue 3, January 2007, p. 149-161.

- X. Chen and J. Shen, “Improved Schemes for Power-Efficient Broadcast in Ad Hoc Networks,” International Journal of High Performance Computing and Networking, Inderscience, Vol. 4, No. 3/4, 2006, p. 198-206. Ranking: A.

- X. Chen and J. Shen, “On the Frame-Stewart Conjecture about the Towers of Hanoi,” SIAM Journal on Computing, Vol. 33, No. 3, 2004, p. 584-589. Ranking: A+.

- J. Wu and X. Chen, “Fault-Tolerant Tree-Based Multicasting in Mesh Multicomputers,” Journal of Computer Science and Technology, Vol. 16, No. 5, September 2001, p. 393-408.

- X. Chen, G. M. Zhu, and F. Tong, “The Checking of the Correctness of Z Schemas,” Computer Engineering Journal, Vol. 21, No. 5, 1995, p. 3-9.

3. Refereed Conference Proceedings

- X. Chen, “Diverse Embedding Graph Attention Networks for Personalized Federated Learning”, IEEE International Conference on High Performance and Smart Computing, 2026.

- X. Chen, “Fair and Quality-Aware Task Assignment in Crowdsensing Networks”, IEEE International Conference on Edge Computing and Scalable Cloud (IEEE EdgeCom), 2025. Acceptance rate: 28%.

- X. Chen, “Multi-Objective Task Assignment in Crowdsourcing”, IEEE International Conference on High Performance and Smart Computing, 2025. Acceptance rate: 26.92%.

- X. Chen, “Optimization Algorithm Balancing Output and Fairness in Crowdsourcing”, IEEE Virtual Conference on Communications, 2024.

- X. Chen, “Maximizing the Total Utility of Requesters in Crowdsourcing”, IEEE International Conference on High Performance and Smart Computing, 2024.

- X. Chen, Building Mobile Edge Infrastructure in an Uncertain Environment, IEEE Virutal Conference on Communications, 2023.

- S. Brozdzik, M. Paulson, X. Chen, “Probabilistic Task Assignment in Edge Computing”, IEEE High performance and smart computing (HPSC), 2023.

- B. Burtchell, M. Finch, X. Chen, Self-Driving Vehicle Data Scheduling in Edge-Clouds, IEEE MASS REUNS, 2022.

- X. Chen, Job Scheduling on Edge and Cloud Servers, IEEE International Conference on High Performance and Smart Computing, 2022.

- G. Samore, J. Bates, X. Chen, Improving Satisfaction in Crowdsourcing Platforms, IEEE International Conference on Intelligent Data and Security, 2021.

- X. Chen, Energy-efficient Smart Parking for Self-driving Vehicles, IEEE International Conference on High Performance and Smart Computing, 2021.

- X. Chen, Data Size Aware Forwarding in Opportunistic Mobile Networks, IEEE International Conference on Computing, Networking and Communications, 2020. Silver contribution award.

- X. Chen, Energy Efficient NFV Resource Allocation in Edge Computing Environment, IEEE International Conference on Computing, Networking and Communications, 2020. Silver contribution award.

- K. Carr, J. Rojas, X. Chen, Autonomous Refueling Strategies using Vehicle-to-Infrastructure Communication in Smart Cities, IEEE MASS REUNS, 2019.

- X. Chen, A Stable Task Assignment Scheme in Crowdsourcing, IEEE International Conference on Embedded and Ubiquitous, 2019. Won the best paper award.

- X. Chen, "Task Trading for Crowdsourcing in Opportunistic Mobile Social Networks," IEEE Wireless Communications and Networking Conference, 2018. Acceptance rate: 17.92%.

- X. Chen and B. Deng, "Task Allocation Schemes for Crowdsourcing in Opportunistic Mobile Social Networks", IEEE International Conference on Computing, Networking and Communications, 2018. Acceptance rate: 26%.

- X. Chen, K. Xiong, "A Payment Scheme in Crowdsourcing", IEEE International Conference on Communications (IEEE ICC), 2017.

- X. Chen, W. Li, "Content Synchronization with Feedback in Smart City Device-to-Device Communication", IEEE Wireless Communications and Networking Conference (IEEE WCNC), March 2017.

- C. Shang, B. Wong, X. Chen, W. Z. Li, S. Oh, "Community and Social Feature-based Multicast in Opportunistic Mobile Social Networks," Proceedings of IEEE International Conference on Computer Communications and Networks (IEEE ICCCN), August 2015. Acceptance rate: 25%.

- X. Chen, K. Xiong, Dynamic Social Feature-based Diffusion in Mobile Social Networks, Proceedings of IEEE/CIC International Conference on Communications in China, November 2015.

- B. Warwick, N. Symons, X. Chen, K. Xiong, "Detecting Driver Drowsiness using Wireless Wearables," Proceedings of IEEE International Conference on Mobile Ad hoc and Sensor

Systems (IEEE MASS) workshop on REU Research in Networking and Systems (REUNS), October 2015.

- K. Xiong, X. Chen, "Ensuring Cloud Service Guarantees via Service Level Agreement (SLA)-based Resource Allocation," Proceedings of IEEE International Conference on Distributed Computing Systems (IEEE ICDCS) workshop on Assurance in Distributed Systems and Networks (ADSN), June 2015. Conference acceptance rate: 15%.

- Y. Xu, X. Chen, "Social-Similarity-based Multicast Algorithm in Impromptu Mobile Social Networks," Proceedings of IEEE Global Communications Conference (IEEE GLOBECOM), December 2014.

- X. Chen, C. Y. Liu, C. Liu, "Efficient Routing Algorithms Combining History and Social Predictors in Mobile Social Networks," Proceedings of IEEE International Symposium on Parallel and Distributed Processing with Applications (IEEE ISPA), August 2014.

- X. Chen, Z. Jiang, K. Q. Xiong, J. Shen, "Practical Routing Protocol for Impromptu Mobile Social Networks," Proceedings of IEEE International Conference on Embedded and Ubiquitous Computing (IEEE EUC), August 2014.

- Z. Sumpter, L. Burson, B. Tang, X. Chen, "Maximizing Number of Satisfiable Routing Requests in Static Ad Hoc Networks," Proceedings of IEEE Global Communications Conference (IEEE GLOBECOM), 2013.

- D. Rothfus, C. Dunning, X. Chen, "Social-Similarity-based Routing Algorithm in Delay Tolerant Networks," Proceedings of IEEE International Conference on Communications (IEEE ICC), June 2013.

- X. Chen, Z. X. Dai, and H. C. Shi, "EgyHet: An Energy-Saving Routing Protocol for Wireless Heterogeneous Sensor Networks," Proceedings of IEEE International Conference on Computing, Networking and Communications (IEEE ICNC), January, 2013. Acceptance rate: 25%.

- X. Chen, Z. X. Dai, W. Z. Li and H. C. Shi, "A Layer-Based Routing Protocol for Heterogeneous Wireless Sensor Networks," Proceedings of IEEE International Conference on Communications (IEEE ICC), June 2012.

- X. Chen and N. Rowe, "Saving Energy by Adjusting Transmission Power in Wireless Sensor Networks," Proceedings of IEEE Global Communications Conference (IEEE GLOBECOM), December 2011.

- K. Xiong, K. D. Kang, and X. Chen, "A Priority-Type Resource Allocation Approach in Cluster Computing," Proceedings of IEEE International Conference on High Performance Computing and Communications (IEEE HPCC), September 2011. Acceptance rate: 21%.

- X. Chen and N. Rowe, "An Energy-Efficient Communication Scheme in Wireless Cable Sensor Networks," Proceedings of IEEE International Conference on Communications (IEEE ICC), June 2011.

- Y. F. Hu, W. Z. Li, X. Chen, X. Chen, S. L. Lu, and J. Wu, "A Probabilistic Routing Protocol for Heterogeneous Sensor Networks," Proceedings of IEEE International Conference on Networking, Architecture, and Storage (IEEE NAS), July 2010. Acceptance rate: 28%.

- X. Chen, N. Rowe, and G. Singh, "Improving Localization Accuracy using Spatio-Temporal Information of Objects," Proceedings of IEEE International Conference on Communications (IEEE ICC), May 2010.

- J. Curran, and X. Chen, "A Minimization Problem in Wireless Sensor Networks," Proceedings of International Conference on Parallel and Distributed Computing and Networks, February 2010.

- Q. Gu, X. Chen, Z. Jiang, and J. Wu, "Sink-Anonymity Mobility Control in Wireless Sensor Networks," Proceedings of IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (IEEE WiMob), October 2009.

- X. Chen, J. Shen, T. Groves, and J. Wu, "Probability Delegation Forwarding in Delay Tolerant Networks," **Proceedings of IEEE International Conference on Computer Communications and Networks (IEEE ICCCN), August 2009.** Acceptance rate: 25%.

- X. Chen, J. Shen, and J. Wu, "A Novel Information Model for Efficient Routing Protocols in Delay Tolerant Networks," Proceedings of IEEE International Parallel & Distributed Processing Symposium (IEEE IPDPS), May 2009, p. 1-8.

- Q. J. Gu, and X. Chen, "Privacy Preserving Mobility Control Protocols in Wireless Sensor Networks," Proceedings of International Symposium on Parallel Architectures, Algorithms, and Networks (ISPAN), May 2008, p. 159-164.

- X. Chen, Z. Jiang, and J. Wu, "Quick Convergence Mobility Control Schemes in Wireless Sensor Networks," Proceedings of IEEE International Parallel and Distributed Processing Symposium (IEEE IPDPS) workshop on Advances in Parallel and Distributed Computing Models (APDCM), April 2008, p. 1-7.

- X. Chen, "A Replica Allocation Scheme with One-Hop Time Constraint in Ad Hoc Wireless Networks," Proceedings of International Conference on Computers and Their Applications (CATA), March 2007, p. 255-259.

- X. Chen and X. D. Jia, "Energy Balancing Routing Algorithms in Wireless Sensor Networks Connected as Grids," Proceedings of the International Conference on Wireless Algorithms, Systems and Applications (WASA), August, 2007, p. 19-25. Acceptance rate: 21%.
- X. Chen, "Locating Data Servers in Ad Hoc Mobile Networks with K-hop Time Constraint," Proceedings of International Conference on Parallel and Distributed Computing and Systems (PDCS), November 2006, p. 365-369.

- X. Chen and J. Drissi, "An Efficient Key Management Scheme in Hierarchical Sensor Networks," Proceedings of IEEE International Conference on Mobile Ad-hoc and Sensor Systems (IEEE MASS) workshop on Wireless and Sensor Networks Security, November 2005.

- X. Chen and J. Shen, "Energy Reducing Broadcasting Algorithms in Ad Hoc Networks," Proceedings of International Conference on Computers and Their Applications (CATA), March 2005, p. 97-102.

- X. Chen and J. Shen, "Reducing Connected Dominating Set Size with Multipoint Relays in Ad Hoc Wireless Networks," Proceedings of International Symposium on Parallel Architectures, Algorithms & Networks (ISPAN), May 2004, p. 539-543.

- X. Chen and J. Shen, "Algorithms for Multiple IP Address Lookups," Proceedings International Conference on Parallel and Distributed Computing and Systems (PDCS), November 2003, p. 844-847.
- X. Chen and J. Shen, "A Quorum-Based Fault-Tolerant Method for Distributed Mutual Exclusion," Proceedings of the 7th Joint Conference on Information Sciences, September 2003, p. 568-571.

- X. Chen, J. Wu and X. D. Jia, "Prefix Routing in Mobile Ad-Hoc Networks," Proceedings of International Conference on Parallel and Distributed Computing Systems (PDCS), September 2002, p. 66-71.

- X. Chen and J. Shen, "Secure Group Key Distribution Protocols," Proceedings of International Conference on Parallel and Distributed Computing Systems (PDCS), September 2002, p. 307-311.

- X. Chen and X. D. Jia, "Package Routing Algorithms in Mobile Ad-Hoc Wireless Networks," Proceedings of International Conference on Parallel Processing (ICPP) workshop on Wireless Networks and Mobile Computing, September 2001, p. 485-490.

- X. Chen, J. Shen and X. D. Jia, "An Upper Bound for a Mobile Ad-Hoc Wireless Network," Proceedings of International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA), June 2001, p. 1617-1620. Acceptance rate: 26%.

- X. Chen, "Fault-Tolerant Adaptive and Shortest Routing in 2-D Extended Meshes using Faulty-Block-Information," Proceedings of International Conference on Parallel Processing (ICPP) workshop on High Performance Scientific and Engineering Computing with Applications (HPSECA), August 2000, p. 267-274.

- X. Chen, "Fault-Tolerant Multicasting in 3-D Meshes Using Extended Safety Levels," Proceedings of IEEE International Symposium on Fault-Tolerant Computing (IEEE FTCS), June 1999, p. 5-7. Acceptance rate: 20%.

- J. Wu and X. Chen, "A Fault-Tolerant and Time-Step Optimal Multicasting in 2-D Meshes," Proceedings of Annual IEEE Workshop Fault-Tolerant and Distributed Systems, April 1999, p. 204-226.
- X. Chen and J. Wu, "Path-based Fault-Tolerant Multicasting in Mesh-Connected Multicomputers," Proceedings of International Conference on Parallel and Distributed Computing and Systems (PDCS), November 1999, p. 72-77.

- X. Chen and J. Wu, “Minimal Routing in 3-D Meshes using Extended Safety Levels,” Proceedings of International Conference on Parallel and Distributed Computing and Systems (PDCS), October 1998, p. 385-390.

4. Abstracts

- X. Chen, “Minimal Path-Based Routing in Mesh-Connected Multicomputers,” Abstracts of the 31th Southeastern International Conference on Combinations, Graph Theory, and Computing, March 2000, p. 6.

- X. Chen and J. Wu, “Fault-Tolerant Multicasting in 3-D Meshes Using Extended Safety Levels,” Abstracts of the 30th Southeastern International Conference on Combinations, Graph Theory, and Computing, March 1999, p. 53.

- X. Chen and J. Wu, “Minimal Routing in 3-D Meshes using Extended Safety Levels,” Abstracts of the 29th Southeastern International Conference on Combinations, Graph Theory, and Computing, March 1998, p. 57.

5. Reports

- [TR-CSE-99-32] X. Chen and J. Wu, “Path-Based Fault-Tolerant Multicasting in Mesh-Connected Multicomputers,” Florida Atlantic University, February 1999.

- [TR-CSE-98-20] X. Chen and J. Wu, “Fault-Tolerant Multicasting in 2-D Meshes Using Extended Safety Levels,” Florida Atlantic University, July 1998.

- [TR-CSE-97-14] X. Chen and J. Wu, “Petri Net Models of the Circular Token Problem,” Florida Atlantic University,” February 1997.

- [TR-CSE-97-63] X. Chen and J. Wu, “Minimal Routing in 3-D Meshes Using Extended Safety Levels,” Florida Atlantic University, November 1997.

6. Book Reviews

- X. Chen, book review of “Distributed System Design,” published by Journal of Parallel and Distributed Computing Practices, Vol. 3, No. 1, March 2000.

7. Other

a. Submitted or in preparation

- X. Chen, “Diverse Embedding Graph Attention Networks for Personalized Federated Learning, ready to submit.

- X. Chen, “An Optimization Problem in Machine Maintenance Scheduling”, ready to submit.

B. Works not in Print

1. Papers Presented at Professional Meetings

- X. Chen, “Fair and Quality-Aware Task Assignment in Crowdsensing Networks”, IEEE International Conference on Edge Computing and Scalable Cloud (IEEE EdgeCom), 2025.

- X. Chen, Multi-Objective Task Assignment in Crowdsourcing, IEEE International Conference on High Performance and Smart Computing, 2025.

- “Optimization Algorithm Balancing Output and Fairness in Crowdsourcing”, presented at IEEE Virtual Conference on Communications, 2024.

- “Maximizing the Total Utility of Requesters in Crowdsourcing”, presented at IEEE International Conference on High Performance and Smart Computing, 2024.

- “Building Mobile Edge Infrastructure in an Uncertain Environment”, presented at IEEE Virtual Conference on Communications, 2023.

- “Probabilistic Task Assignment in Edge Computing”, presented at IEEE High Performance and Smart Computing, 2023.
-
- “Job Scheduling on Edge and Cloud Servers”, IEEE International Conference on High Performance and Smart Computing, virtual conference, May 7, 2022.

- “Self-Driving Vehicle Data Scheduling in Edge-Clouds”, presented by B. Burtchell, IEEE MASS REUNS, Denver, Colorado, October 22, 2022.

- “Improving Satisfaction in Crowdsourcing Platforms”, IEEE International Conference on Intelligent Data and Security, virtual conference, 2021.

- “Energy-efficient Smart Parking for Self-driving Vehicles”, IEEE International Conference on High Performance and Smart Computing, virtual conference, 2021.

- “A Stable Task Assignment Scheme in Crowdsourcing”, IEEE International Conference on Embedded and Ubiquitous”, New York, 2019.

- “Task Trading for Crowdsourcing in Opportunistic Mobile Social Networks”, IEEE WCNC, Barcelona, April 2018.

- “A Payment Scheme in Crowdsourcing,” IEEE ICC, Paris, France, May 2017.

- “Content Synchronization with Feedback in Smart City Device-to-Device Communication,” IEEE WCNC, San Francisco, March 2017.

- “Detecting Driver Drowsiness using Wireless Wearables,” IEEE International Conference on Mobile Ad hoc and Sensor Systems (IEEE MASS) workshop on REU Research in Networking and Systems (REUNS), Dallas, TX, October 2015.

- “Community and Social Feature-based Multicast in Opportunistic Mobile Social Networks,” IEEE International Conference on Computer Communications and Networks (IEEE ICCCN), Las Vegas, August 2015.

- "Social-Similarity-based Multicast Algorithm in Impromptu Mobile Social Networks," IEEE Global Communications Conference (IEEE GLOBECOM), Austin, TX, December 2014.

- "Efficient Routing Algorithms Combining History and Social Predictors in Mobile Social Networks," IEEE International Symposium on Parallel and Distributed Processing with Applications (IEEE ISPA), Milan, Italy, August 2014.

- "Practical Routing Protocol for Impromptu Mobile Social Networks," IEEE International Conference on Embedded and Ubiquitous Computing (IEEE EUC), Milan, Italy, August 2014.

- "Maximizing Number of Satisfiable Routing Requests in Static Ad Hoc Networks," IEEE Global Communications Conference (IEEE GLOBECOM), Atlanta, GA, 2013.

- "Social-Similarity-based Routing Algorithm in Delay Tolerant Networks," IEEE International Conference on Communications (IEEE ICC), Budapest, Hungary, June 2013.

- "EgyHet: An Energy-Saving Routing Protocol for Wireless Heterogeneous Sensor Networks," International Conference on Computing, Networking and Communications (IEEE ICNC), San Diego, CA, January 2013.

- "A Layer-Based Routing Protocol for Heterogeneous Wireless Sensor Networks," IEEE International Conference on Communications (IEEE ICC), Ottawa, Canada, June 2012.

- "Saving Energy by Adjusting Transmission Power in Wireless Sensor Networks," IEEE Global Communications Conference (IEEE GLOBECOM), Houston, TX, December 2011.

- "A Priority-Type Resource Allocation Approach in Cluster Computing," IEEE International Conference on High Performance Computing and Communications (IEEE HPCC), Banff, Canada, September 2011.

- "An Energy-Efficient Communication Scheme in Wireless Cable Sensor Networks," IEEE International Conference on Communications (IEEE ICC), Kyoto, Japan, June 2011.

- "A Probabilistic Routing Protocol for Heterogeneous Sensor Networks," IEEE International Conference on Networking, Architecture, and Storage (IEEE NAS), Macau, China, July 2010.
- "Improving Localization Accuracy using Spatio-Temporal Information of Objects," IEEE International Conference on Communications (IEEE ICC), Cape Town, South Africa, May 2010.

- "A Minimization Problem in Wireless Sensor Networks," International Conference on Parallel and Distributed Computing and Networks, Innsbruck, Austria, February 2010.

- "Sink-Anonymity Mobility Control in Wireless Sensor Networks," IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (IEEE WiMob), Marrakech, Morocco, October 2009.

- "Probability Delegation Forwarding in Delay Tolerant Networks," **IEEE International Conference on Computer Communications and Networks (IEEE ICCCN), San Francisco, CA, August 2009.**

- "A Novel Information Model for Efficient Routing Protocols in Delay Tolerant Networks," IEEE International Parallel & Distributed Processing Symposium (IEEE IPDPS), Rome, Italy, May 2009.

- "Privacy Preserving Mobility Control Protocols in Wireless Sensor Networks," International Symposium on Parallel Architectures, Algorithms, and Networks (ISPAN), Sydney, Australia, May 2008.

- "Quick Convergence Mobility Control Schemes in Wireless Sensor Networks," IEEE International Parallel and Distributed Processing Symposium (IEEE IPDPS) workshop on Advances in Parallel and Distributed Computing Models (APDCM), Miami, FL, April 2008.

- "A Replica Allocation Scheme with One-Hop Time Constraint in Ad Hoc Wireless Networks," International Conference on Computers and Their Applications (CATA), Honolulu, HI, March 2007.

- "Energy Balancing Routing Algorithms in Wireless Sensor Networks Connected as Grids," International Conference on Wireless Algorithms, Systems and Applications (WASA), Chicago, IL, August 2007.

- "Locating Data Servers in Ad Hoc Mobile Networks with K-hop Time Constraint," International Conference on Parallel and Distributed Computing and Systems (PDCS), Dallas, TX, November 2006.

- "An Efficient Key Management Scheme in Hierarchical Sensor Networks," IEEE International Conference on Mobile Ad-hoc and Sensor Systems (IEEE MASS) workshop on Wireless and Sensor Networks Security, Washington, DC, November 2005.

- "Energy Reducing Broadcasting Algorithms in Ad Hoc Networks," International Conference on Computers and Their Applications (CATA), New Orleans, March 2005.

- "Reducing Connected Dominating Set Size with Multipoint Relays in Ad Hoc Wireless Networks," International Symposium on Parallel Architectures, Algorithms & Networks (ISPAN), Hong Kong, China, May 2004.

- "Algorithms for Multiple IP Address Lookups," International Conference on Parallel and Distributed Computing and Systems (PDCS), Marina del Rey, CA, November 2003.

- "A Quorum-Based Fault-Tolerant Method for Distributed Mutual Exclusion," 7th Joint Conference on Information Sciences, Research Triangle park, NC, September 2003.

- "Prefix Routing in Mobile Ad-Hoc Networks," International Conference on Parallel and Distributed Computing Systems (PDCS), Cambridge, MA, September 2002.

- "Secure Group Key Distribution Protocols," International Conference on Parallel and Distributed Computing Systems (PDCS), Cambridge, MA, September 2002.

- "Package Routing Algorithms in Mobile Ad-Hoc Wireless Networks," International Conference on Parallel Processing (ICPP) workshop on Wireless Networks and Mobile Computing, Valencia, Spain, September 2001.

- "An Upper Bound for a Mobile Ad-Hoc Wireless Network," International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA), Las Vegas, NV, June 2001.

- "Fault-Tolerant Adaptive and Shortest Routing in 2-D Extended Meshes using Faulty-Block-Information," International Conference on Parallel Processing (ICPP) workshop on High Performance Scientific and Engineering Computing with Applications (HPSECA), Toronto, Canada, August 2000.

- "Minimal Path-Based Routing in Mesh-Connected Multicomputers," 31th Southeastern International Conference on Combinations, Graph Theory, and Computing, Boca Raton, FL, March 2000.

- "Fault-Tolerant Multicasting in 3-D Meshes Using Extended Safety Levels," IEEE International Symposium on Fault-Tolerant Computing (IEEE FTCS), Madison, WI, June 1999.

- "Path-based Fault-Tolerant Multicasting in Mesh-Connected Multicomputers," International Conference on Parallel and Distributed Computing and Systems (PDCS), Cambridge, MA, November 1999.

- "Fault-Tolerant Multicasting in 3-D Meshes Using Extended Safety Levels," 30th Southeastern International Conference on Combinations, Graph Theory, and Computing, Boca Raton, March 1999.

- "Minimal Routing in 3-D Meshes using Extended Safety Levels," International Conference on Parallel and Distributed Computing and Systems (PDCS), Las Vega, NV, October 1998.

- "Minimal Routing in 3-D Meshes using Extended Safety Levels," 29th Southeastern International Conference on Combinations, Graph Theory, and Computing, Boca Raton, March 1998.

2. Invited Talks, Lectures, and Presentations

- Invited talk in the Department of Computer & Information Sciences at Temple University, October 2011.

- Gave a research talk at the IAB meeting of the Department of Computer Science, Texas State University, April 2010.

- Invited talk in the College of Computer Science, Nanjing University of Posts and Telecommunications, Nanjing, China, January 2010.

- Invited talks in the Department of Computer Science and Technology, Nanjing University, Nanjing, China, 2014, 2010 and 2009.

- Invited talk in the College of Information Engineering at Chengdu Institute of Technology, Chengdu, China, May 2004.

- Seminar in the Department of Computer Science at Texas State University, May 2004.

- Invited talk in the Department of Communications at Texas State University, 2003.
- Invited talk at DIMACS center on "Multicasting: Architecture, Algorithms, and Applications," Rutgers University, New Jersey, May 2001.

- Two invited talks at Discrete Math Seminar at Texas State University, 2001.

3. Consultancies

- Did consulting work on ad hoc wireless networks at Florida Atlantic University, 2007.

C. Grants and Contracts

1. Funded External Grants and Contracts

- NSF REU site: "Research Experiences for Undergraduates in Edge Computing", K. Yang (PI), X. Chen (senior personnel), $389,995, 3/1/2022-2/28/2025.

- NSF REU site: "Research Experiences for Undergraduates in Smart & Connected Communities", V. Metsis (PI), M. Guirguis (CO-PI), X. Chen (senior personnel), Q. Gu (senior personnel), Y. Lu (senior personnel), J. Tesic (senior personnel), $379,812, 5/15/2018-4/30/2022.

- NSF CC*IIE Networking Infrastructure: "Enabling and Improving Data-Driven Research at Texas State University" (G), X. Chen (PI), M. O'Connor (CO-PI), H. Shi (CO-PI), R. Walter (CO-PI), J. Jensen (CO-PI), $499,896, 10/01/2014-09/30/2017.

- NSF II-NEW: "Shared High Performance Data Center" (G), Y. Lu (PI), X. Chen (CO-PI), B. Gao (CO-PI), A. Qasem (CO-PI), A. Ngu (CO-PI), $375,759, 10/1/2013 – 9/30/2018.

- NSF REU site: "Research Experiences for Undergraduates in Mobile CPSs" (G), M. Guirguis (PI), Q. J. Gu (CO-PI), X. Chen (senior personnel), 6/1/2012-5/31/2017, $340,000.

- Travel grant for attending the CRA-W career mentoring workshops held in Washington DC, 2016.

- Travel grant for attending the Fed4FIRE-GENI Research Experiment Summit (FGRE 2015) held in Ghent University (G), X. Chen (PI), Belgium, $3,434, 2015.

- "Detecting Driver Drowsiness using Wireless Wearables" (G), X. Chen (PI), subcontract from Rochester Institute of Technology, supporting two undergraduate research assistants, $15/hour, 2015.

- NSF REU supplement grant to CNS 0835834 (G), J. Shen (PI), X. Chen (CO-PI), 2009-2010, $16,000.

- NSF CNS 0835834: "A Novel Information Model for Efficient Routing Protocols in Delay Tolerant Networks with General Mobility" (G), J. Shen (PI), X. Chen (CO-PI), 2008-2010, $59,842.00.

- Travel grant for attending IEEE MASS held in Washington DC (G), X. Chen (PI), 2005, $2000.

- Travel grant for attending the 29th IEEE International Symposium on Fault-Tolerant Computing (IEEE FTCS) held in Madison (G), X. Chen (PI), Wisconsin, 1999, $2000.

2. Submitted, but not Funded, External Grants and Contracts

- "REU SITE: Multidisciplinary Undergraduate Research in Technology-Enhanced Civil Infrastructure," X. Chen (Senior Personnel), submitted to NSF, 01/01/2026-09/01/2028, $454,744, Fall 2025.

- "REU SITE: Multidisciplinary Undergraduate Research in Technology-Enhanced Civil Infrastructure," X. Chen (Senior Personnel), submitted to NSF, 01/01/2025-09/01/2027, $439,420, Fall 2024.

- "REU SITE: Multidisciplinary Undergraduate Research in Technology-Enhanced Civil Infrastructure," X. Chen (Senior Personnel), submitted to NSF, 01/01/2024-09/01/2026, $417,706, September 2023.

- "REU SITE: Multidisciplinary Undergraduate Research in Technology-Enhanced Civil Infrastructure," X. Chen (Senior Personnel), submitted to NSF, 01/01/2023-09/01/2025, $454,767, September 2022.

- "CNS Core: Small: Methods for Enhancing Quality of Crowdsourcing Platforms," X. Chen (PI), submitted to NSF, 10/01/2022-09/30/2025, $500k, August 2021.

- "IUSE: Engaged Student Learning: ESL Level 1: Improving Student-centered Data Science Education in CI-learning Environment," X. Chen (PI), submitted to NSF, 06/01/2022-05/31/2025, $299,858, July 2021.

- "REU Site: Research Experiences for Undergraduates in Edge Computing," X. Chen (Senior personnel), submitted to NSF, 03/01/2022-02/28/2025, $389,995, August 2021.

- "Frameworks: An End-to-end CI Solution for Exascale Monitoring using Distributed Sensing", X. Chen (Senior personnel), submitted to NSF, $2,414,874, 09/01/2022-08/31/2026, December 8, 2021. Proposal Number: 2209606.

- "Building Virtual Group, Research, Interaction, and Project Learning Modules for Data-Intensive Education," X. Chen (PI), submitted to NSF, 09/01/2015-8/31/2018, $600k, January 2015.

- "A Mobile Network Testbed for Asymmetric Communication Networks in Battlefield Environment," X. Chen (PI), submitted to DoD Durip program, October 2013.

- "NeTS: Small: Performance-Guaranteed Communication with Built-in Security in Asymmetric Communication Networks," X. Chen (PI), submitted to NSF NeTS, December 2012.

- "Evaluation of Existing Smartphone Applications and Data Needs for Travel Surveys," X. Chen (PI), submitted to TxDOT, March 2012.

- "RUI: Building an Integrated Research and Education Testbed for Exploring Mobile Emergency Awareness and Response Networks," X. Chen (Co-PI), submitted to NSF, August 2010.

- "Adaptive Communication Protocols in Opportunistic Networks," X. Chen (PI), submitted to NHARP, September 2009.

- "COS: Compressive and Opportunistic Sensing for Wireless Sensor Networks," Q. Liang (PI), X. Chen (CO-PI), submitted to NHARP, September 2009.

- "RUI: A Testbed for Design and Analysis of Intelligent and Secure Systems of Small Mobile Computing Devices," X. Chen (CO-PI), submitted to NSF CRI, August 2009.

- "Robust Mobility Control Schemes in Wireless Sensor Networks," X. Chen (PI), Q. Gu (CO-PI), submitted to ARP, October 2007.

- "Heterogeneous Sensor Networks: Information Integration with Application to Secure US-Mexico Border," Q. Liang (PI), X. Chen (CO-PI), submitted to ARP, October 2007.

- "Sensor: MSFR-Energy Efficient Communications in Sensor Networks," X. Chen (PI), submitted to NSF, March 2005.

- "Reducing Connected Dominating Set Size with Multipoint Relays in Ad Hoc Wireless Networks," X. Chen (PI), submitted to DOE, February 2004.

- "Reducing Connected Dominating Set Size with Multipoint Relays in Ad Hoc Wireless Networks," X. Chen (PI), submitted to NSF, March 2004.

- "Routing Protocols Design and Simulations in Ad Hoc Wireless Networks," X. Chen (PI), submitted to NSF, February 2003.

- "S2GDS: SoC Reliability Verification Tools for Physical Design," X. Chen (PI), submitted to ATP, summer 2003.

- "Routing Protocol Design in Ad Hoc Wireless Networks," X. Chen (PI), submitted to ARP, summer 2001.

- "Routing Protocol Design in Ad Hoc Wireless Networks," X. Cehn (PI), submitted to ATP, summer 2001.

3. Funded Internal Grants and Contracts

- Library Research Grant (G), X. Chen (PI), Texas State University, 2008, $1,415.

- Research Enhancement Project (G), X. Chen (PI), Texas State University, 2002, $8000.

- Research Enhancement Project (G), X. Chen **(**PI), Texas State University, 2000, $8000.

- Summer research grant (G), X. Chen (PI), Texas State University, 2000, $2000.

- Research Enhancement Project (G), X. Chen (PI), Texas State University, 1999, $8000.

4. Submitted, but not Funded, Internal Grants and Contracts

- "Optimization Problem for Machine Maintenance in Edge Computing", X. Chen (PI), submitted to REP, $1,2000, Fall 2025.

- "Multi-Objective Task Assignment in Crowdsourcing", X. Chen (PI), submitted to REP, Fall 2024.

- "Maximizing the Total Utility of Requesters in Crowdsourcing", X. Chen (PI), submitted to REP, October 2023.

- "Building Mobile Edge Infrastructure in an Uncertain Environment", X. Chen (PI), submitted to REP, 2022.

- "Improving Satisfaction in Crowdsourcing Platforms", X. Chen (PI), submitted to REP, 2020.

- "Energy Efficient NFV Resource Allocation in Edge Computing Environment", X. Chen (PI), submitted to REP, 2019.

- "Social Feature-based Information Diffusion in Mobile Social Networks", X. Chen (PI), submitted to REP, 2016.

- "Content Synchronization using Device-to-Device Communication in Smart Cities", X. Chen (PI), submitted to REP, 2015.

- "Detecting Driver Drowsiness using Wireless Wearables," X. Chen (PI), revised and submitted to REP, 2014.

- "Detecting Driver Drowsiness using Wireless Wearables," X. Chen (PI), submitted to REP, 2013.

- "Efficient Communication Protocol Design in Social Communication Networks," X. Chen (PI), submitted to REP, 2012.
- "A Priority-type Resource Scheduling Algorithm in Cloud Computing," X. Chen (PI), submitted to REP, 2011.
- "A Layer-Based Routing Protocol for Heterogeneous Sensor Networks," X. Chen (PI), submitted to REP, October 2010.
- "Improving Localization Accuracy using Spatio-Temporal Information of Objects," X. Chen (PI), submitted to REP, October 2009.
- "An Energy Efficient Target Tracking Schemes in Large-Scale Sensor Networks," X. Chen (PI), submitted to REP, October 2008.
- "Quick Convergence Mobility Control Schemes in Wireless Sensor Networks," X. Chen (PI), submitted to REP, October 2007.
- "Energy Balancing Routing Algorithms in Wireless Sensor Networks Connected as Regular Topologies," X. Chen (PI), submitted to Joann Cole Mitte Faculty Grant for Excellence, September 2007.

D. Fellowships, Awards, Honors

1. Fellowships

- Summer research fellowships, summer 2000.
- Awarded the Daniel B. Newell and Aurel B. Newell Doctoral Fellowship, Florida Atlantic University, 1997.
- SBT Scholarship, First prize HUA TONG Scholarship, Excellent graduate student, Excellent undergraduate student, Shanghai University, all before 1995.

2. Awards

- Awarded faculty development leave in Fall 2021.
- Silver contribution award at IEEE International Conference on Computing, Networking and Communications, Feb. 2020.
- Won the best paper award at IEEE International Conference on Embedded and Ubiquitous, 2019.
- Awarded faculty development leave with one-year payment (held visiting researcher position at University of Texas Austin), 2013.

- College of Science Runner-up for the Presidential Award for Excellence in Scholarly/Creative Activities, 2006.
- Awarded faculty development leave in Fall 2006.
- Awarded tenure and promotion, 2005.
- College of Science Runner-up for the Presidential Award for Excellence in Scholarly/Creative Activities, 2005.
- College of Science Nominee for the Presidential Award for Excellence in Scholarly/Creative Activities, 2004.
- College of Science Nominee for the Presidential Award for Excellence in Scholarly/Creative Activities, 2002.
- College of Science Runner-up for the Presidential Award for Excellence in Scholarly/Creative Activities, 2001.
- USA National Collegiate Computer Science Awards Winner, 1998.

E. Other

a. Conference and seminars attended

- Attended IEEE Virtual Conference on Communications, 2024.
- Attended IEEE High Performance and Smart Computing virtually, 2024.
- Attended IEEE Virtual Conference on Communications, 2023.
- Attended IEEE High Performance and Smart Computing virtually, 2023.
- Attended several mathematical seminars virtually in 2020.
- Attended the IEEE MASS 2020 - Smart City, Smart Home, Smart Office panel virtually on 12/12/2020.
- Attended IEEE International Conference on Parallel and Distributed Systems from 12/2-3/2020 virtually.
- Attended the DPCS2020 conference virtually from 11/21-11/22/2020.
- Attended the seminar “Reinforcement Learning for Resource Management in Space-Air-Ground (SAG) Integrated Vehicular Networks” virtually given by Dr. Xuemin (Sherman) Shen from University of Waterloo on 11/5/2020.
- Attended the seminar “Payment Channel Networks for Blockchain-based Cryptocurrencies” virtually given by Dr. Guoliang Xue from Arizona State University on 10/20/2020.

- Attended the seminar "Millimeter Waves, Millisecond Delays" virtually given by Dr. Shivendra S. Panwar from New York University on 10/8/2020.

- Attended International Conference on Computer Communications and Networks held virtually from 8/3-6/2020. At the conference, I was a session chair and listened to the keynote speeches and talks, exchanged research ideas with other researchers, and kept my knowledge up-to-date.

b. Research Problem Statement

- "Connected Vehicle Problems, Challenges and Major Technologies," submitted to TxDOT, 2012.

IV. SERVICE

A. University

- Member of the APLU Innovation and Economic Prosperity (IEP) University Designation Committee, 2015.
- Member of the University International Recruitment Committee, 2012.
- Member of the College Curriculum Committee, 2007-2012.
- Member of the University Curriculum Committee, 2007-May 2008.
- Member of the College of Science Research Enhancement Program Review Committee, 2003.
- Participated in a panel talk to students in the Department of Communication in Texas State University, 2003.

B. Departmental

- Interviewed a faculty position candidate Mo Sha from 2-2:30pm on 4/20/2021.
- Proctored a student who took the comprehensive examination online because of COVID quarantine on 4/9/2021 7pm-10pm.
- Chair of the comprehensive examination committee, Department of Computer Science, Texas State University.
- Chair of the library committee, Department of Computer Science, Texas State University.
- Member of the personnel committee, Department of Computer Science, Texas State University.
- Listened to Kecheng Yang's class and gave comments, 2/25/2021.
- Member of the master's program committee, Department of Computer Science, Texas State University.
- Member of the seminar committee, Department of Computer Science, Texas State University.
- Member of the undergraduate committee, Department of Computer Science, Texas State University.
- Member of the recruitment committee, Department of Computer Science, Texas State University.
- Member of the industrial relations & planning committee, Department of Computer Science, Texas State University.

- Member of the Ph.D. proposal committee, Department of Computer Science, Texas State University.
- Teach in the Round Rock High Education Center every semester.
- Proctored the graduate comprehensive exams in Fall 2014, Fall 2007, Spring 2007, Fall 2006, Spring 2006, Fall 2005, Summer 2004, Spring 2003, Summer 2002, Spring 2002, Fall 2001, Spring 2001, Fall 2000.
- Grade the graduate comprehensive exams every year.
- Course Coordinator for Software Engineering, Survey of Software Engineering, Operating Systems, Computer Networks, Object-oriented Design and Implementation
- Collect good/medium/bad assignments for ABET every semester
- Perform end-of-semester assessments and evaluations for ABET every semester

C. Community

- Board member of the Chinese American Semiconductor Professional Association Austin Chapter, 2003-present.
- Science Fair Judge for Harmony School of Science, December 2011.
- Officer of the IEEE Central Texas Local Chapter, 2000.

D. Professional

1. Associate Editor

- Guest editor of International Journal of Sensor and Actuator Networks SI “WSN for Tracking and Localization”, 2015.
- International Journal of Computers and Applications, 2003-present.
- International Conference on Parallel and Distributed Processing Techniques and Applications

2. Organizer

- Area chair of ICCCN “Sensor/Embedded Networks and Pervasive Computing (SNPC)” track, 2020.
- The First International Workshop on Wireless Security and Privacy (WiSP) in conjunction with IEEE ICDCS, 2008.
- IEEE International Workshop on Pervasive Computing and Ad Hoc Communications, 2005.
- International Workshop on Data Intensive Parallel and Distributed Computation in conjunction with International Conference on Parallel and Distributed Processing Techniques and Application, 2001.

3. NSF Review Panels

- Attended NSF review panel, April 2009.
- Attended NSF review panel, June 2008.
- Attended NSF review panel, April 2007.

4. Chair of International Conferences

- Session chair, ICCCN, 2020.
- Session chair, IEEE EUC, 2019.

- Session chair, IEEE ICC, 2017.
- Session chair, IEEE GLOBECOM, 2014.
- Session chair, IEEE ICC, 2010.
- Session chair of AH05 at IEEE ICC conference, 2010.
- Session chair, Wireless Networks and Computer Networks at PDCN conference, 2010.
- Session chair, Energy Aspect at the International Conference on Wireless Algorithms, Systems and Applications, 2007.
- Session chair, Wireless and Sensor Networks at International Conference on Parallel and Distributed Computing and Systems, 2006.
- Session chair, Localization and Routing at IEEE International Conference on Mobile Ad Hoc and Sensor Systems, 2005.
- Session chair, Mobile Computing and Wireless Networks at International Symposium on Parallel Architectures, Algorithms, and Networks, 2004.
- Session chair, Network I at International Conference on Parallel and Distributed Computing and Systems, 2003.
- Session chair, Algorithms at International Conference on Computer Science and Informatics, 2003.
- Session chair, Reconfigurable Architectures at International Conference on Parallel and Distributed Computing Systems, 2002.
- Session chair, Application II at International Workshop on High Performance Scientific and Engineering Computing with Applications, 2000.

5. International Conference Program Committee Member

- Program Committee of IEEE GLOBECOM Mobile and Wireless Networks Track, 2026.
- Program Committee of IEEE GLOBECOM Next-Generation Networking and Internet Track, 2026.
- Program Committee of the Cloud-Network Convergence (CNC) Workshop, in conjunction with the IEEE International Conference on Network Protocols (ICNP), 2025.
- Program Committee of IEEE ICC, 2026.
- Program Committee of IEEE GLOBECOM, 2025.
- Program Committee of IEEE ICC, 2025.
- Program Committee of IEEE ICC, 2024.
- Program Committee of IEE GLOBECOM, 2024.
- Program Committee of IEEE International Conference on Artificial Intelligence of Things, 2024.
- Program Committee of IEEE MASS workshop REUNS, 2022.
- Program Committee of IEEE ICC, 2022.
- Program Committee of IEEE MASS workshop REUNS, 2021.
- Program Committee of IEEE ICC, 2021.
- Program Committee of IEEE MASS workshop REUNS, 2020.
- Program Committee of IEEE ICC, 2020.
- Program Committee of IEEE MASS workshop REUNS, 2019.
- Program Committee of IEEE GLOBECOM, 2019.
- Program Committee of IEEE GLOBECOM, 2018.
- Program Committee of IEEE 5G World Forum (5GWF), 2018.
- Program Committee of IEEE MASS workshop, 2017.
- Program Committee of IEEE GLOBECOM, 2017.
- Program Committee of IEEE ICC, 2017.

- Program Committee of IEEE INFOCOM, 2016.
- Program Committee of IEEE GLOBECOM, 2016.
- Program Committee of IEEE WCNC, 2016
- Program Committee of IEEE MASS workshop REUNS, 2016.
- Program Committee of IEEE MASS, 2015.
- Program Committee of IEEE GLOBECOM, 2015.
- Program Committee of IEEE ICC, 2015.
- Program Committee of IEEE WCNC, 2015.
- Program Committee of IEEE MASS workshop REUNS, 2015.
- Program Committee of IEEE ICC, 2014.
- Program Committee of IEEE GLOBECOM, 2014.
- Program Committee of IEEE WCNC, 2014.
- Program Committee of IEEE MASS, 2013.
- Program Committee of IEEE/IFIP EUC, 2013.
- Program Committee of IEEE WiSARN, 2013.
- Program Committee of IEEE GLOBECOM, 2013.
- Program Committee of IEEE ICC, 2013.
- Program Committee of IEEE WCNC, 2013.
- Program Committee of ISPAN, 2012.
- Program Committee of CSPS, 2012.
- Program Committee of IEEE WiSARN, 2012.
- Program Committee of IEEE WCSP, 2012.
- Program Committee of IEEE GLOBECOM, 2012.
- Program Committee of IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), 2012.
- Program Committee of IEEE INFOCOM, 2012.
- Program Committee of IEEE ICC, 2012.
- Program Committee of the International Conference on Selected Topics in Mobile & Wireless Networking (ICOST), 2011.
- Program Committee of IEEE GLOBECOM, 2011.
- Program Committee of IEEE WCNC, 2011.
- Program Committee of IEEE WSNS, 2011.
- Program Committee of IEEE ICC, 2011.
- Program Committee of IEEE INFOCOM, 2011.
- Program Committee of the 6th IEEE International Workshop on Wireless and Sensor Networks Security (IEEE WSNS), 2010.
- Program Committee of the 1st International Conference on Pervasive Networked Services and Internet of Things (PNSIOT), 2010.
- Program Committee of the IEEE ICC 2010 - Ad-hoc, Sensor and Mesh Networking Symposium, 2010.
- Technical Program Committee of IEEE GLOBECOM 2010 - Ad-hoc and Sensor Networking Symposium, 2010.
- Program Committee of the ISCA 25th International Conference on Computers and Their Applications (CATA), 2010.
- Program Committee of IEEE SECON, 2009.
- Program Committee of the 5th International Conference on Parallel and Distributed Systems (ICPADS), 2009.
- Program Committee of the 8th IEEE International Conference on Embedded Computing (EmbeddedCom), 2009.

- Program Committee of the 5th IEEE International Workshop on Wireless and Sensor Networks Security (IEEE WSNS), 2009.
- Program Committee for the 3rd International Conference on Network-Based Information Systems (NBiS), 2009.
- Program Committee for the International Conference on Wireless Information Networks and Systems (WINSYS), 2009.
- Technical Program Committee of the 1st International Workshop on Pervasive Computing Systems and Infrastructure (PCSI), 2009.
- Program Committee for the 24th International Conference on Computers and Their Applications (CATA), 2009.
- Technical Program Committee for IEEE ICC'2009-AHSNET (ICC'2009- Ad hoc and Sensor Networking Symposium), 2009.
- International Program Committee for the Fourth IEEE International Workshop on Wireless and Sensor Networks Security (WSNS), 2008.
- International Program Committee for SIWN International Conference on Networking, Internet and Mobile Communications (NIMC), 2008
- Program Committee for World Multi-Conference on Systemics, Cybernetics and Informatics (WMSCI), 2008.
- Technical Program Committee for IEEE Workshop on High Performance Switching and Routing (HPSR), 2008.
- Program Committee member of the 23rd International Conference on Computers and Their Applications (CATA), 2008.
- Program Committee member of the IEEE 22nd International Conference on Advanced Information Networking and Applications (AINA), 2008.
- Program Committee member of the 3rd IEEE International Workshop on Wireless and Sensor Networks Security (IEEE WSNS), October 2007.
- International Program Committee for International Workshop on Energy Optimization in Wireless Sensor Networks (ENOPT), 2007.
- Program Committee member of the 2007 International conference on Complex Open Distributed Systems (CODS), Mobile Communications and Computing track, 2007.
- Program Committee member of the IEEE 21st International Conference on Advanced Information Networking and Applications (AINA), 2007.
- Program Committee member of the 2nd International Workshop on Wireless and Sensor Networks Security (WSNS), held in conjunction with the 3rd IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS), 2006.
- Program Committee member of the 2nd International Conference on Mobile Ad-hoc and Sensor Networks (MSN), Deployment, Topology Control and Clustering track, 2006.
- Program Committee member of the 2nd International Conference on Mobile Ad-hoc and Sensor Networks (MSN), Security, Privacy, and Reliability track, 2006.
- Program Committee member of International Conference on Mobile Ad-hoc and Sensor Networks (MSN), 2005.
- Program Committee member of the 2005 International Workshop on Wireless and Sensor Networks Security (WSNS), 2005.
- Program Committee member of the First International Workshop on Mobile Ad-hoc and Ubiquitous Sensor Networks (MASN), 2005.
- Program Committee member of IEEE International Symposium on a World of Wireless Mobile and Multimedia Networks (WoWMoM), 2004.
- Committee member of "Network Communication and Protocol" session in 15th International Conference on Parallel and Distributed Computing Systems (PDCS), 2002.

- Program committee member of International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA), June 2001.
- Program committee member of Workshop on Wireless Networks and Mobile Computing held in conjunction with IEEE International Conference on Parallel Processing (ICPP), 2001.

6. Paper Reviewer – International Journals

- Reviewed a paper for the Journal of Computer Science and Technology, 2025.
- Reviewed a paper for the Journal of Advances in Mathematics and Computer Science, 2024.
- Reviewed a paper for IEEE Transactions on Vehicular Technology, 2023.
- Reviewed a paper for the Cyber-Physical Systems journal, 2023.
- Reviewed papers (3) for The Journal of Supercomputing, 2022.
- Reviewed a paper for IEEE Internet of Things Journal, 2021.
- Reviewed papers for The Journal of Supercomputing, 2021.
- Reviewed a paper for IEEE Access, 2020.
- Reviewed a paper for Sensors, 2020.
- Reviewed a paper for the Journal of Systems Architecture, 2020.
- Reviewed papers (3) for The Journal of Supercomputing, 2019.
- Reviewed a paper for Sustainable Computing, Informatics and Systems, 2019.
- Reviewed a paper for IEEE Transactions on Communications, 2018.
- Reviewed a paper for the Journal of Interconnection Networks, 2015.
- Reviewed papers for Ad Hoc & Sensor Wireless Networks journal, 2013.
- Reviewed papers for the Journal of Science China Information Sciences, 2013.
- Reviewed papers for the International Journal of Sensor Networks, 2013.
- Reviewed papers for IEEE Transactions on Parallel and Distributed Systems (TPDS), 2012.
- Reviewed papers for Ad Hoc & Sensor Wireless Networks, 2012.
- Reviewed a paper for the Journal of Computer Science and Technology, 2011.
- Reviewed a paper for Ad Hoc & Sensor Wireless Networks, 2011.
- Reviewed papers for the Journal of Supercomputing, 2010.
- Reviewed papers for Ad Hoc Networks journal, 2010.
- Reviewed papers for the International Journal of Ad Hoc & Sensor Wireless Networks, 2009.
- Reviewed papers for Computer Communications, 2009
- Reviewed papers for the Journal of Systems and Software, 2009.
- Reviewed papers for Computer Communications Journal, 2009.
- Reviewed papers for IEICE (The Institute of Electronics, Information and Communication Engineers) transaction, 2009.
- Reviewed papers for Wireless Communications and Mobile Computing journal, 2008.
- Reviewed papers for Wireless Communications and Mobile Computing journal Special Issue on Underwater Sensor Networks, 2008.
- Reviewed papers for the International Journal on Intelligent Control and Systems Special Issues on Information Assurance, 2007.
- Reviewed papers for Wireless Networks journal, 2007.
- Reviewed papers for Computer Journal, 2007.
- Reviewed papers for International Journal of Parallel, Emergent and Distributed Systems, 2006.
- Reviewed papers for IEEE Transaction on Parallel and Distributed Systems, 2006.
- Reviewed papers for Ad Hoc Networks journal, 2006.
- Reviewed paper for International Journal of Ad Hoc & Sensor Wireless Networks, 2005.
- Reviewed paper for IEEE Transactions on Parallel and Distributed Systems, 2005.

- Reviewed papers for Wireless Networks journal, 2004.
- Reviewed papers for International Journal of Wireless and Mobile Computing, 2004.
- Reviewed papers for Journal of Optical Engineering, 2004.
- Reviewed papers for IEEE Transaction on Parallel and Distributed Systems, 2004.
- Reviewed papers for IEEE Computer special issue on International Journal of Ad Hoc Networks, 2003.
- Reviewed papers for Parallel Processing Letters, 2003.
- Reviewed papers for Journal of Optical Engineering, 2003.
- Reviewed papers for the International Journal for Computers and Their Applications, 2002.
- Reviewed papers for Information Sciences: an International Journal, 2002.
- Reviewed a paper for IEEE Communications Letters, 2002.
- Book review for Journal of Parallel and Distributed Computing Practices, 2002.
- Reviewed a paper for the Computer Journal, 2002.
- Reviewed papers for Parallel Processing Letters, 2002.
- Reviewed papers for the International Journal of Parallel and Distributed Systems and Networks, 2002.
- Reviewed papers for Parallel Processing Letters, 2001.
- Reviewed papers for the International Journal of Parallel and Distributed Systems and Networks 2001.
- Reviewed book “Distributed System Design,” published by Journal of Parallel and Distributed Computing Practices, Vol. 3, No. 1, March 2000.
- Reviewed papers for the Journal of Parallel and Distributed Computing, 2000.
- Reviewed papers for IEEE Transactions on Parallel and Distributed Systems, 1999.

7. Paper Reviewer – International conferences

- Reviewed papers (6) for IEEE GLOBECOM Mobile and Wireless Networks Track, 2026.
- Reviewed papers (2) for IEEE GLOBECOM Next-Generation Networking and Internet Track, 2026.
- Reviewed papers (4) for IEEE INFOCOM CNC, 2026.
- Reviewed papers (4) for IEEE ICC, 202
- Reviewed papers (6) for IEEE GLOBECOM, 2025.
- Reviewed papers (2) for IEEE ICNP CNC 2025.
- Reviewed papers (4) for IEEE ICC, 2025.
- Reviewed papers (4) for IEEE GLOBECOM, 2024.
- Reviewed papers (3) for IEEE International Conference on Artificial Intelligence of Things, 2024.
- Reviewed papers (4) for IEEE ICC, 2024.
- Reviewed papers (7) for IEEE MASS workshop REUNS, 2022.
- Reviewed papers (7) for IEEE ICC, 2022.
- Reviewed papers (7) for IEEE ICC, 2021.
- Reviewed papers (2) for IEEE MASS workshop REUNS, 2021.
- Reviewed papers (4) for ICCCN, 2020.
- Reviewed papers (3) for IEEE ICC, 2020.
- Reviewed papers (9) for IEEE GLOBECOM, 2019.
- Reviewed papers (3) for IEEE MASS workshop REUNS, 2019.
- Reviewed papers for IEEE GLOBECOM, 2018.
- Reviewed papers for IEEE MASS workshop, 2017 (8).
- Reviewed papers for IEEE GLOBECOM, 2017 (9).

- Reviewed papers for IEEE ICC, 2017 (8).
- Reviewed papers for IEEE WCNC, 2016 (3).
- Reviewed papers for IEEE MASS workshop REUNS, 2016 (5).
- Reviewed papers for IEEE GLOBECOM, 2016 (3).
- Reviewed papers for IEEE INFOCOM, 2016. (Reviewed 10 papers)
- Reviewed papers for IEEE MASS, 2015. (Reviewed 10 papers)
- Reviewed papers for IEEE GLOBECOM, 2015. (Reviewed 9 papers)
- Reviewed papers for IEEE ICC, 2015. (Reviewed 3 papers)
- Reviewed papers for IEEE WCNC, 2015. (Reviewed 5 papers)
- Reviewed papers for IEEE MASS REUNS, 2015. (Reviewed 4 papers)
- Reviewed papers for IEEE GLOBECOM, 2014.
- Reviewed papers for IEEE ICC, 2014.
- Reviewed papers for IEEE WCNC, 2014.
- Reviewed papers for IEEE ICC, 2013.
- Reviewed papers for IEEE WCNC, 2013.
- Reviewed papers for IEEE/IFIP EUC, 2013.
- Reviewed papers for IEEE MASS, 2013.
- Reviewed papers for IEEE GLOBECOM, 2013.
- Reviewed papers for IEEE WiSARN, 2013.
- Reviewed papers for ISPAN, 2012.
- Reviewed papers for IEEE WCSP, 2012.
- Reviewed papers for IEEE WiSARN, 2012.
- Reviewed papers for IEEE GLOBECOM, 2012.
- Reviewed papers for IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, 2012.
- Reviewed papers for IEEE INFOCOM, 2012.
- Reviewed papers for IEEE ICC, 2012.
- Reviewed papers for International Conference on Selected Topics in Mobile & Wireless Networking (iCOST), 2011.
- Reviewed papers for WSNS, 2011.
- Reviewed papers for GLOBECOM, 2011.
- Reviewed paper for IEEE INFOCOM, 2011.
- Reviewed papers for IEEE ICC, 2011.
- Reviewed paper for IEEE WCNC, 2011.
- Reviewed papers for GLOBECOM, 2010.
- Reviewed papers for IEEE ICC 2010.
- Reviewed papers for IEEE WSNS, 2010.
- Reviewed papers for the 5th International Conference on Parallel and Distributed Systems (ICPADS), 2009.
- Reviewed papers for WSNS, 2009.
- Reviewed papers for International Conference on Wireless Information Networks and Systems (WINSYS), 2009.
- Reviewed papers for SECON 2009.
- Reviewed papers for the 1st International Workshop on Pervasive Computing Systems and Infrastructure, 2009.
- Reviewed papers for IEEE ICC, 2009.
- Reviewed papers for CATA-2009.
- Reviewed paper for the Fourth IEEE International Workshop on Wireless and Sensor Networks Security (WSNS), 2008.

- Reviewed papers for CATA-2008.
- Reviewed papers for IEEE Workshop on High Performance Switching and Routing (HPSR), 2008.
- Reviewed papers for the IEEE 22nd International Conference on Advanced Information Networking and Applications (AINA), 2008.
- Reviewed papers for the 3rd International Conference on Collaborative Computing: Networking, Applications and Worksharing, 2007.
- Reviewed papers for the 3rd IEEE International Workshop on Wireless and Sensor Networks Security (IEEE WSNS), 2007.
- Reviewed papers for the 2007 International conference on Complex Open Distributed Systems (CODS'07), Mobile Communications and Computing track, 2007.
- Reviewed papers for The IEEE 21st International Conference on Advanced Information Networking and Applications, AINA 2007.
- Reviewed papers for the 2nd IEEE International Workshop on Wireless and Sensor Networks Security (WSNS), 2006.
- Reviewed papers for the 2nd International Conference on Mobile Ad-hoc and Sensor Networks (MSN), 2006.
- Reviewed papers for International Conference on Sensor Networks, Ubiquitous, and Trustworthy Computing, 2005.
- Reviewed papers for the First International Workshop on Mobile Ad-hoc and Ubiquitous Sensor Networks (MASN), 2005.
- Reviewed papers for the 6th International Conference on Web Information Systems Engineering (WISE), 2005.
- Reviewed papers for the International Workshop on Wireless and Sensor Networks Security (WSNS), 2005.
- Reviewed papers for the International Conference on Mobile Ad-hoc and Sensor Networks (MSN), 2005.
- Reviewed papers for the 6th Workshop on Parallel and Distributed Scientific and Engineering Computing (PDSEC) held together with International Parallel and Distributed Processing Symposium (IPDPS), 2005.
- Reviewed papers for IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM), 2004.
- Reviewed papers for IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM), 2004.
- Reviewed papers for 19th International Parallel and Distributed Processing Symposium, 2004.
- Reviewed papers for the 1st IEEE International Conference on Mobile Ad-hoc and Sensor Systems, 2004.
- Reviewed papers for ISPAN, 2004.
- Reviewed papers for ACS/IEEE International Conference on Computer Systems and Applications (AICCSA), 2003.
- Reviewed papers for International Conference on Parallel Processing (ICPP), 2002.
- Reviewed papers for "Network Communication and Protocol" session in 15th International Conference on Parallel and Distributed Computing Systems (PDCS), 2002.
- Reviewed papers for the 6th World Multiconference on Systemics, Cybernetics and Informatics, 2002.
- Reviewed papers for 2001 International Conference on Parallel Processing (ICPP), 2001.
- Reviewed papers for the 3rd Workshop on High Performance Scientific and Engineering Computing with Applications (HPSECA), 2001.
- Reviewed papers for Workshop on Wireless Networks and Mobile Computing, 2001.

- Reviewed papers for International Conference on Parallel Processing (ICPP), 1999.

E. Organizations

1. Professional

- IEEE and IEEE computer society and IEEE Communication Society member, 1996-present.