

# Jie Wu

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## 1 Employment History

- Director of the Center for Networked Computing, CST, Temple University 07/09 - present
- Laura H. Carnell Professor, Department of Computer and Information Sciences (CIS),  
Temple University 07/12 - present
- Director of International Affairs, College of Science and Technology (CST),  
Temple University 07/17 - 06/22
- Associate Vice Provost for International Affairs, Temple University 09/15 - 06/17
- Chair, CIS, Temple University 07/09 - 06/16
- Professor, Department of Obstetrics, Gynecology & Reproductive Sciences, School of Medicine,  
Temple University (secondary appointment) 07/12 - 06/15
- Professor, CIS, Temple University 07/09 - 06/12
- Program Director, CNS Division of CISE, National Science Foundation (NSF) 01/07 - 01/09
- Distinguished Professor, Department of Computer Science and Engineering (CSE),  
Florida Atlantic University 09/06 - 07/09
- Professor, CSE, Florida Atlantic University 08/98 - 08/06
- Associate Professor, CSE, Florida Atlantic University 08/94 - 07/98
- Assistant Professor, CSE, Florida Atlantic University 08/89 - 07/94
- Visiting Professor, College of Computing, Georgia Institute of Technology Summer 1991
- Lecturer, Dept. of Computer Science, Shanghai University of Science and Technology 07/85 - 01/87

## 2 Statement of Professional Interests

Mobile Computing and Wireless Networks  
Routing Protocols  
Network Trust and Security  
Parallel Processing  
Distributed Algorithms  
Cloud and Green Computing  
Applied Machine Learning  
Social Network Applications

## 3 Educational Background

- Ph.D. in Computer Engineering, Florida Atlantic University, Boca Raton, FL, 08/89
- M.S. in Computer Science, Shanghai University of Science and Technology (now Shanghai University), Shanghai, P. R. of China, 07/85
- B.S. in Computer Engineering, Shanghai University of Science and Technology, Shanghai, P. R. of China, 07/82

## 4 Scholarly Achievements

### 4.1 Publications

#### 4.1.1 Refereed Journals (482)

1. X. Li, J. Zhou, X. Wei, D. Li, Z. Qian, J. Wu, X. Qin, and S. Lu, “Topology-Aware Scheduling Framework for Microservice Applications in Cloud,” accepted to appear in *IEEE Transaction on Parallel and Distributed Systems (TPDS)*.
2. S. Jiang and J. Wu, “Approaching an Optimal Bitcoin Mining Overlay,” accepted to appear in *IEEE/ACM Transactions on Networking (TNET)*.
3. Q. Liu, Y. Peng, H. Jiang, J. Wu, T. Wang, T. Peng, and G. Wang, “SlimBox: Lightweight Packet Inspection over Encrypted Traffic,” accepted to appear in *Transactions on Dependable and Secure Computing (TDSC)*.
4. Z. Lin, X. Liu, H. Zhou, and J. Wu, “Adaptive Time-Varying Routing for Energy Saving and Load Balancing in Wireless Body Area Networks,” accepted to appear in *IEEE Transactions on Mobile Computing (TMC)*.

5. H. Zhou, T. Wu, X. Chen, S. He, D. Guo, and J. Wu, "Reverse Auction-based Computation Offloading and Resource Allocation in Mobile Cloud-Edge Computing," accepted to appear in *IEEE Transactions on Mobile Computing (TMC)*.
6. H. Wang, Y. Yang, E. Wang, X. Liu, J. Wei, and J. Wu, "Bilateral Privacy-Preserving Worker Selection in Spatial Crowdsourcing," accepted to appear in *IEEE Transactions on Dependable and Secure Computing (TDSC)*.
7. Y. Lin, P. Qiu, Y. Yang, X. Du, and J. Wu, "Distributed and Secure Power Control for Secondary Users in Dynamic Spectrum Access," accepted to appear in *IEEE Transactions on Wireless Communications (TWC)*.
8. E. Wang, W. Liu, W. Liu, Y. Yang, B. Yang, and J. Wu, "Spatiotemporal Urban Inference and Prediction in Sparse Mobile CrowdSensing: a Graph Neural Network Approach," accepted to appear in *IEEE Transactions on Mobile Computing (TMC)*.
9. Y. Chen, L. Luo, D. Guo, O. Rottenstreich, and J. Wu, "SDTP: Accelerating Wide-Area Data Analytics with Simultaneous Data Transfer and Processing," accepted to appear in *IEEE Transactions on Cloud Computing*.
10. M. Shao, W. Jiang, J. Wu, Y. Shi, T. Yum, and J. Zhang, "Improving Friend Recommendation for Online Learning with Fine-grained Evolving Interest," accepted to appear in *Journal of Computer Science and Technology (JCST)*.
11. S. Jiang and J. Wu, "A Blockchain-based NFV Market in the Multi-node Edge Computing Network," accepted to appear in *International Journal of Security and Networks (IJSN)*.
12. N. Niknami and J. Wu, "MB-CIM: A Multi-round Budgeted Competitive Influence Maximization," accepted to appear in *International Journal of Security and Networks (IJSN)*.
13. G. Burduli and J. Wu, "Time Management in a Chess Game through Machine Learning," accepted to appear in *International Journal of Parallel, Emergent and Distributed Systems (IJPEDS)*, Vol. 38, No. 1, 2023, 14-34.
14. B. Zhou, S. Li, J. Wang, Y. Cheng, and J. Wu, "A secure model against mobile sink replication attacks in unattended sensor networks," *Journal of Computer Networks*, Vol. 221, 2023, 109529.
15. S. Lu, J. Wu, N. Wang, Y. Duan, H. Liu, J. Zhang, and J. Fang, "Resource Provisioning in Collaborative Fog Computing for Multiple Delay-Sensitive Users," *Software: Practice and Experience*, Vol. 53, No. 2, 2023, 243-262.
16. H. Zhou, M. Li, N. Wang, G. Min, and J. Wu, "Accelerating Deep Learning Inference via Model Parallelism and Partial Computation Offloading," *IEEE Transactions on Parallel and Distributed Systems (TPDS)*, Vol. 34, No. 2, 2022, 475-488.
17. H. Zhou, T. Wu, X. Chen, S. He, and J. Wu, "RAIM: A Reverse Auction-Based Incentive Mechanism for Mobile Data Offloading Through Opportunistic Mobile Networks," *IEEE Transactions on Network Science and Engineering (TNSE)*, Vol. 9, No. 6, 3909-3921.

18. J. Shang and J. Wu, "Secure Voice Input on Augmented Reality Headsets," *IEEE Transactions on Mobile Computing*, Vol. 21, No. 4, 2022, 1420-1433.
19. Q. Pan, J. Wu, A.K. Bashir, J. Li, and J. Wu, "Side-Channel Fuzzy Analysis-Based AI Model Extraction Attack With Information-Theoretic Perspective in Intelligent IoT," *IEEE Transactions on Fuzzy Systems*, Vol. 30, No. 11, 4642-4656.
20. N. Niknami and J. Wu, "Entropy-KL-ML: Enhancing the Entropy-KL-based Anomaly Detection Method on Software-Defined Networks," *IEEE Transactions on Network Science and Engineering (TNSE)*, Vol. 9, No. 6, 4458-4467.
21. J. Cheng, L. Ping, N. Xiong, and J. Wu, "AAFL: Asynchronous-Adaptive Federated Learning in Edge-Based Wireless Communication Systems for Countering Communicable Infectious Diseases," *IEEE Journal on Selected Areas in Communications, Special Issue on SI-Edge Infectious Diseases (JSAC)*, Vol. 40, No. 11, 3172-3190.
22. E. Wang, J. Cai, Y. Yang, W. Liu, H. Wang, B. Yang and J. Wu, "Trustworthy and Efficient Crowd-sensed Data Trading on Sharding Blockchain," *Journal on Selected Areas in Communications, Special Issue on SI-Intelligent Blockchain (JSAC)*, Vol. 40, No. 12, 3547-3561.
23. Y. Xu, M. Xiao, A. Liu, and J. Wu, "Edge Resource Prediction and Auction for Distributed Spatial Crowdsourcing with Differential Privacy," *IEEE Internet of Things Journal*, Vol. 9, No. 17, 15554-15569.
24. Y. Lin, Y. Yang, X. Du and J. Wu, "Distributed and Secure Uplink Power Control in Dynamic Spectrum Access," *IEEE Transactions on Wireless Communications (TWC)*, Vol. 21, No. 12, 10242-10256.
25. G. Gao, H. Huang, M. Xiao, J. Wu, Y. Sun, and Y. Du, "Budgeted Unknown Worker Recruitment for Heterogeneous Crowdsensing Using CMAB," *IEEE Transactions on Mobile Computing*, Vol. 21, No. 11, 3895-3911.
26. Z. Li, K. Hwang, K. Li, J. Wu, and T. Ji, "Graph-generative neural network for EEG-based epileptic seizure detection via discovery of dynamic brain functional connectivity," *Scientific Reports*, Vol. 12, No. 1, 1-15.
27. M. Xiao, B. An, J. Wang, G. Gao, S. Zhang, and J. Wu, "CMAB-based Reverse Auction for Unknown Worker Recruitment in Mobile Crowdsensing," *IEEE Transactions on Mobile Computing*, Vol. 21, No. 10, 3502-3518.
28. S. Jiang and J. Wu, "A Blockchain-Powered Data Market for Multi-User Cooperative Search," *IEEE Transactions on Network and Service Management*, Vol. 19, No. 1, 2022, 203-215.
29. S. Jiang, X. Li, and J. Wu, "Multi-Leader Multi-follower Stackelberg Game in Mobile Blockchain Mining," *IEEE Transactions on Mobile Computing*, Vol. 21, No. 6, 2022, 2058-2071.
30. J. Guo, J. Wu, A. Liu, and N. Xiong, "LightFed: An Efficient and Secure Federated Edge Learning System on Model Splitting," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 33, No. 11, 2022, 2701-2713.

31. K. Sakai, M. Sun, W. Ku, and J. Wu, "Towards Wireless Power Transfer in Mobile Social Networks," *IEEE Transactions on Network Science and Engineering*, Vol. 9, No. 3, 2022, 1091-1103.
32. J. Shang and J. Wu, "Voice Liveness Detection for Voice Assistants through Ear Canal Pressure Monitoring," *IEEE Transactions on Network Science and Engineering*, Vol. 9, No. 3, 2022, 1225-1234.
33. J. Wu and S. Jiang, "On Increasing Scalability and Liquidation of Lightning Networks for Blockchains," *IEEE Transactions on Network Science and Engineering*, Vol. 9, No. 4, 2022, 2589-2600.
34. S. Zhang, C. Wang, Y. Jin, J. Wu, Z. Qian, M. Xiao, and S. Lu, "Adaptive Configuration Selection and Bandwidth Allocation for Edge-based Video Analytics," *IEEE/ACM Transactions on Networking*, Vol. 30, No. 1, 2022, 285-298.
35. Q. Liu, Y. Peng, S. Pei, J. Wu, T. Peng, and G. Wang, "Prime Inner Product Encoding for Effective Wildcard-based Multi-Keyword Fuzzy Search," *IEEE Transactions on Service Computing*, Vol. 15, No. 4, 2022, 1799-1812.
36. Z. Ma, S. Zhang, Z. Chen, T. Han, Z. Qian, M. Xiao, N. Chen, J. Wu, and S. Lu, "Towards Revenue-driven Multi-User Online Task Offloading in Edge Computing," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 33, No. 5, 2022, 1185-1198.
37. Y. Duan and J. Wu, "Spatial-Temporal Inventory Rebalancing for Bike Sharing Systems with Worker Recruitment," *IEEE Transactions on Mobile Computing*, Vol. 21, No. 3, 2022, 1081-1095.
38. J. Shang, S. Chen, J. Wu, and S. Yin, "ARSpy: Breaking Location-Based Multi-Player Augmented Reality Application for User Location Tracking," *IEEE Transactions on Mobile Computing*, Vol. 21, No. 2, 2022, 433-447.
39. R. Biswas and J. Wu, "Optimal Filter Assignment Policy Against Distributed Denial-of-Service Attack," *IEEE Transactions on Dependable and Secure Computing*, Vol. 19, No. 1, 2022, 339-352.
40. X. W. Qin, R. X. Hao, and J. Wu, "Construction of Dual-CISTs on an Infinite Class of Networks," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 33, No. 8, 2022, 1902-1910.
41. Q. Liu, Y. Tian, J. Wu, T. Peng, and G. Wang, "Enabling Verifiable and Dynamic Ranked Search over Outsourced Data," *IEEE Transactions on Services Computing*, Vol. 15, No. 1, 2022, 69-82.
42. M. Wu, N. Xiong, L. Tan, J. Wei, and J. Wu, "ATU: An Aggregate-Then-Update Diffusion Intelligent Estimation Scheme for Adaptive Networked Systems," *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, Vol. 52, No. 6, 2022, 3822-3833.
43. Y. Mao, J. Wu, X. He, P. Ping, J. Wang, and J. Wu, "Joint Dynamic Grouping and Gradient Coding for Time-critical Distributed Machine Learning in Heterogeneous Edge Networks," *IEEE Internet of Things Journal (IoT)*, Vol. 9, No. 22, 2022, 22723-22736.
44. Y. Duan, N. Wang, and J. Wu, "Accelerating DAG-style Job Execution via Optimizing Resource Pipeline Scheduling," *Journal of Computer Science and Technology (JCST)*, Vol. 37, No. 4, 2022, 852-868.

45. J. Wu, "A Note on a Combinatorics Partition Problem," *Academic Letter*, March 2022.
46. Q. Liu, L. Chen, H. Jiang, J. Wu, T. Wang, T. Peng, and G. Wang, "A collaborative deep learning microservice for backdoor defenses in Industrial IoT networks," *Ad Hoc Networks*, Vol. 124, 2022, 102727.
47. Q. Liu, G. Wang, J. Hu, and J. Wu, "Preface of special issue on Artificial Intelligence: The security & privacy opportunities and challenges for emerging applications," *Future Generation Computer System*, Vol. 133, 2022, 169–170.
48. I. Jawhar, S. Zhang, J. Wu, and N. Mohamad, "Message-Ferrying Delay-Tolerant Routing in Linear Wireless Sensor Networks," *International Journal of Sensor Networks (IJSNET)*, Vol. 39, No. 1, 2022, 1-17.
49. X. Zhu, J. Wu, W. Chang, M. Z. Alam Bhuiyan, R. Choo, Q. Fang, L. Qi, and G. Wang, "On Authenticated Skyline Query Processing over Road Networks," *Concurrency and Computation: Practice and Experience*, Vol. 34, No. 14, 2022, e5747.
50. A. Sawwan and J. Wu, "Energy-Efficient Minimum Mobile Charger Coverage for Wireless Sensor Networks," accepted to appear in *Journal of Computer Science and Technology (JCST)*, Vol. 37, No. 4, 2022, 869-887.
51. S. Lu, J. Wu, J. Shi, P. Lu, J. Fang, and H. Liu, "A Dynamic Service Placement based on Deep Reinforcement Learning in Mobile Edge Computing," accepted to appear in *Journal of Network*, No. 1, 2022, 106-122.
52. N. Niknami and J. Wu, "Competitive Influence Maximization Model with Monetary Incentive," accepted to appear in *International Journal of Parallel, Emergent and Distributed Systems (IJPEDS)*, Vol. 37, No. 6, 2022, 680-695.
53. A. Sawwan and J. Wu, "On Edge Pruning of Communication Networks Under an Age-of-Information," *Journal of Combinatorial Optimization, Graph, and Network Algorithms*, Vol. 15, No. 7, 2022, 228.
54. J. Wu, "Challenges and Opportunities in Algorithmic Solutions for Re-Balancing in Bike Sharing Systems," *Tsinghua Science and Technology*, Vol. 25, No. 6, 2022, 721-733.
55. S. Jiang and J. Wu, "A reward response game in the blockchain-powered federated learning system," *International Journal of Parallel, Emergent and Distributed Systems (IJPEDS)*, Vol. 37, No. 1, 2022, 68-90.
56. P. Luo, J. Cheng, Z. Liu, N. Xiong, and J. Wu, "FedVeca: Federated Vectorized Averaging on Non-IID Data with Adaptive Bi-directional Global Objectiv," *ArXiv*.
57. H. Zheng and J. Wu, "Joint Scheduling of Overlapping MapReduce Phases: Pair Jobs for Optimization," *IEEE Transactions on Services Computing*, Vol. 14, No. 5, 2021, 1453-1463.
58. W. Liu, Y. Yang, E. Wang, H. Wang, Z. Wang, and J. Wu, "Dynamic Online User Recruitment With (Non-) Submodular Utility in Mobile CrowdSensing," *IEEE/ACM Transactions on Networking*, Vol. 29, No. 5, 2021, 2156-2169.

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60. Y. Chen and J. Wu, "Latency-Efficient VNF Deployment and Path Routing for Reliable Service Chain," *IEEE Transactions on Network Science and Engineering*, Vol. 8, No. 1, 2021, 651-661.
61. D. Luan, E. Wang, W. Liu, Y. Yang, and J. Wu, "Minimum-Cost Edge-Server Location Strategy in Mobile Crowdsensing," *IEEE Transactions on Network and Service Management*, Vol. 18, No. 3, 2021, 3375-3388.
62. M. Huang, A. Liu, W. Liu, N. Xiong, and J. Wu, "An UAV-assisted Ubiquitous Trust Communication System in 5G and Beyond Networks," *IEEE Journal on Selected Areas in Communications*, Vol. 39, No. 11, 2021, 3444-3458.
63. G. Gao, M. Xiao, J. Wu, H. Huang, S. Wang, and G. Chen, "Auction-based VM Allocation for Deadline-Sensitive Tasks in Distributed Edge Cloud," *IEEE Transactions on Services Computing*, Vol. 14, No. 6, 2021, 1702-1716.
64. X. -W. Qin, R. -X. Hao and J. Wu, "Construction of Dual-CISTs on an Infinite Class of Networks," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 33, No. 8, 2021, 1902-1910.
65. Z. Hui, M. Xiao, J. Wu, Y. Xu, H. Huang, and S. Zhang, "Differentially Private Unknown Worker Recruitment for Mobile Crowdsensing Using Multi-Armed Bandits," *IEEE Transactions on Mobile Computing*, Vol. 20, No. 9, 2021, 2779-2794.
66. S. Zhao, R. Hao, and J. Wu, "The generalized 4-connectivity of hierarchical cubic networks," *Elsevier Discrete Applied Mathematics*, Vol. 289, 2021, 194-206.
67. W. Zhang, Y. Lin, J. Wu, and T. Zhou, "Inference Attack-Resistant E-Healthcare Cloud System with Fine-Grained Access Control," *IEEE Transactions on Services Computing*, Vol. 14, No. 1, 2021, 167-178.
68. S. Zhang, S. Zhang, Z. Qian, J. Wu, Y. Jin, and S. Lu, "DeepSlicing: Collaborative and Adaptive CNN Inference With Low Latency," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 32, No. 9, 2021, 2175-2187.
69. Q. Liu, Y. Peng, J. Wu, T. Wang, and G. Wang, "Secure Multi-Keyword Fuzzy Searches with Enhanced Service Quality in Cloud Computing," *IEEE Transactions on Network and Service Management*, Vol. 18, No. 2, 2021, 2046-2062.
70. Y. Duan and J. Wu, "Minimizing Training Time of Distributed Machine Learning by Reducing Data Communication," *IEEE Transactions on Network Science and Engineering*, Vol. 8, No. 2, 2021, 1802-1814.
71. R. Biswas, S. Kim, and J. Wu, "Traffic Engineering to Minimize The Number of Rules in SDN Datacenters," *IEEE Transactions on Network Science and Engineering*, Vol. 8, No. 2, 2021, 1467-1477.

72. N. Wang and J. Wu, "Cost-efficient Heterogeneous Worker Recruitment under Coverage Requirement in Spatial Crowdsourcing," *IEEE Transactions on Big Data*, Vol. 7, No. 2, 2021, 407-420.
73. H. Zhou, T. Wu, H. Zhang, and J. Wu, "Incentive-driven Deep Reinforcement Learning for Content Caching and D2D Offloading," *IEEE Journal on Selected Areas in Communications*, Vol. 39, No. 8, 2021, 2445-2460.
74. R. Biswas and J. Wu, "Sampling Rate Distribution for Flow Monitoring and DDoS Detection in Datacenter," *IEEE Transactions on Information Forensics and Security*, Vol. 16, 2021, 2524-2534.
75. P. Xia, W. Jiang, J. Zhang, J. Wu, R. Su, and G. Wang, "Exploiting Temporal Dynamics in Product Reviews for Dynamic Sentiment Prediction at the Aspect Level," *ACM Transactions on Knowledge Discovery from Data*, Vol. 15, No. 4, 2021, 1556-4681.
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77. Y. Chen and J. Wu, "Flow Scheduling of Service Chain Processing in a NFV-based Network," *IEEE Transactions on Network Science and Engineering*, Vol. 8, No. 1, 2021, 389-399.
78. Y. Chen and J. Wu, "Grouping Service Chains of Multiple Flows in NFV-based Networks," *IEEE Transactions on Network Science and Engineering*, Vol. 8, NO. 1, 2021, 377-388.
79. N. Chen, S. Quan, S. Zhang, Z. Qian, Y. Jin, J. Wu, W. Li, and S. Lu, "Cuttlefish: Neural Configuration Adaptation for Video Analysis in Live Augmented Reality," *IEEE Transactions Parallel and Distributed Systems*, Vol. 32, No. 4, 2021, 830-841.
80. Y. Zhao, R. Gao, S. Liu, L. Xie, H. Tu, J. Wu, and B. Chen, "Device-Free Secure Interaction with Hand Gestures in WiFi-enabled IoT Environment," *IEEE Internet of Things Journal*, Vol. 8, No. 7, 2021, 5619-5631.
81. Y. Chen and J. Wu, "Joint Coflow Routing and Scheduling in Leaf-Spine Data Centers," *Journal of Parallel and Distributed Computing*, Vol. 148, 2021, 83-95.
82. S. Li, B. Zhou, Q. Hu, J. Wang, J. Dai, W. Wang, H. Yuan, Y. Cheng, and J. Wu, "A Secure Scheme based on One-way associated key management model in Wireless Sensor Networks," *IEEE Internet of Things Journal*, Vol. 8, No. 4, 2021, 2920-2930.
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84. J. Gui, L. Hui, N. Xiong, and J. Wu, "Improving Spectrum Efficiency of Cell-Edge Devices by Incentive Architecture Applications With Dynamic Charging," *IEEE Transactions on Industrial Informatics*, Vol. 17, No. 2, 2021, 795-808.
85. J. Xie, D. Guo, J. Wu, B. Ren, T. Chen, and H. Chen, "Exploiting Reliable and Scalable Multicast Services in IaaS Datacenters," *IEEE Transactions on Services Computing*, Vol. 19, No. 10, 2021, 2344-2357.



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91. J. Li, Baixue Ji, Y. Yang, P. Wei, and J. Wu, "Parallel Optimization of the Crystal-KMC on Tianhe-2," *Tsinghua Science and Technology*, Vol. 26, No. 3, 2021, 309-321.
92. N. Chen, S. Zhang, J. Wu, Z. Qian, and S. Lu, "Learning Scheduling Bursty Requests in Mobile Edge Computing Using DeepLoad," *Elsevier Computer Networks*, Vol. 184, 2021, 107655.
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101. W. Liu, Y. Yang, E. Wang, and J. Wu, "User Recruitment for Enhancing Data Inference Accuracy in Sparse Mobile Crowdsensing," *IEEE Internet of Things Journal*, Vol. 7, No. 3, 2020, 1802 - 1814.
102. Q. Liu, M. Z. Alam Bhuiyan, J. Hu, and J. Wu, "Preface: Security & Privacy in Social Big Data," *Journal of Parallel and Distributed Computing*, Vol. 141, 2020, 59-60.
103. Y. Zhao, J. Xu, J. Wu, J. Hao, and H. Qian, "Enhancing Camera-Based Multimodal Indoor Localization With Device-Free Movement Measurement Using WiFi," *IEEE Internet of Things Journal*, Vol. 7, No. 2, 2020, 1024 - 1038.
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105. M. Xiao, G. Gao, J. Wu, S. Zhang, and L. Huang, "Privacy-Preserving User Recruitment Protocol for Mobile Crowdsensing," *IEEE/ACM Transactions on Networking*, Vol. 28, No. 2, 2020, 519-532.
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#### 4.1.6 Semi-Refereed Publications (43)

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## 4.2 Keynote/Plenary Speeches (52)

1. Keynote Speaker: On Optimal Partitioning and Scheduling of DNNs in Mobile Edge/Cloud Computing, *ICAICE*, 2021.
2. Keynote Speaker: Crowdsourcing as a Future Collaborative Computing Paradigm, *CollaborateCom*, 2021.
3. Keynote Speaker: Enhancing Scalability and Liquidation in QoS Lightning Networks, *IWQoS*, 2021.
4. Keynote Speaker: Challenges and Opportunities in Re-Balancing of Bike-Sharing Systems, *FICC*, 2021.
5. Keynote Speaker: Cyber Security Defense: From Moving Target Defense to Cyber Deception, *CSP*, 2021.
6. Keynote Speaker: On Optimal Partitioning and Scheduling of DNNs in Mobile Edge/Cloud Computing, *ICPADS*, 2020.
7. Keynote Speaker: Blockchain Mining Game in Hierarchical Blockchain Mining Offloading, *BRAINS*, 2020.
8. Keynote Speaker: Algorithmic Solutions for Re-Balancing in Bike Sharing: Challenges and Opportunities, *ICNC*, 2020.
9. Keynote Speaker: Cyber Security Defense: From Moving Target Defense to Cyber Deception, *DependSys*, 2019.
10. Keynote Speaker: Cyber Security Defense: From Moving Target Defense to Cyber Deception, *FCS*, 2019.
11. Keynote Speaker: Maximum Elastic Scheduling Based on the Hose Model, *HPC China*, 2019.
12. Keynote Speaker: On Efficient Data Collection Using Autonomous Underwater Vehicles, *Big Data Expo*, 2019.
13. Keynote Speaker: On Authenticated Query Processing via Untrusted Cloud Service Providers, *IEEE Trustcom*, 2018.
14. Keynote Speaker: Joint Scheduling of Overlapping Phases in the MapReduce Framework, *ISPA*, 2018.



15. Keynote Speaker: On Effective Computer Science Education in the Era of Information Technology, *International Conference on Information Technology in Medicine and Education*, 2018.
16. Keynote Speaker: On Balancing Middlebox Set-up Cost and Bandwidth Consumption in NFV,, *PVE-SDN* (in conjunction with NetSoft), 2018.
17. Keynote Speaker: On Efficient Data Collection Using Autonomous Underwater Vehicles, *WASA*, 2018.
18. Keynote Speaker: Joint Scheduling of Overlapping Phases in the MapReduce Framework,*CloudCom*, 2017.
19. Keynote Speaker: Collaborative Mobile Charging: From Abstraction to Solution, *ACM MobiArch* (in conjunction with ACM SIGCOMM), 2017.
20. Keynote Speaker: Algorithmic Crowdsourcing and Its Applications in Big Data, *ICISCE*, 2017.
21. Plenary Speaker: Algorithmic Crowdsourcing and Its Applications in Big Data, *IEEE ICNC*, 2017.
22. Keynote Speaker: Algorithmic Crowdsourcing and Its Applications in Big Data, *APSCC*, 2016.
23. Keynote Speaker: Dual-Centric Data Center Network Architectures, *SRMPDS*, 2016.
24. Keynote Speaker: Collaborative Mobile Charging: From Abstraction to Solution, *IEEE/ACM IWQoS*, 2016.
25. Keynote Speaker: Algorithmic Crowdsourcing: Current Status and Future Perspective, *IEEE APDCM*, 2016.
26. Keynote Speaker: Algorithmic Crowdsourcing: Current Status and Future Perspective, *IEEE IPCCC*, 2014.
27. Keynote Speaker: Resource Allocation in Network Virtualization, *WSDIF (in conjunction with IEEE MASS)*, 2014.
28. Keynote Speaker: Social-Aware Routing in Delay Tolerant Networks, *DySON (in conjunction with IEEE INFOCOM)*, 2014.
29. Keynote Speaker: Algorithmic Crowdsourcing and Applications in Big Data, *Intel-CSU Transparent Computing and Big Data Summit*, 2014.
30. Keynote Speaker: Collaborative Mobile Charging and Coverage in Wireless Sensor Networks, *THU-SJTU Joint Workshop on Mobile Computing and Networking*, 2014.
31. Keynote Speaker: Collaborative Mobile Charging and Coverage in WSNs, *MiSeNet (in conjunction with ACM MobiCom)*, 2013.
32. Plenary Speaker: Resilient Priority-Based Data Transmission Using Network Coding, *Resilience Week*, 2013.

33. Keynote Speaker: Algorithmic Crowdsourcing, *The 5th International Workshop on Hot Topics in Peer-to-peer Computing and Online Social Networking (HotPOST)*, July 2013.
34. Keynote Speaker: Utility-based Routing and Its Application in Dynamic Wireless Networks, *IEEE TrustCom*, June 2012.
35. Keynote Speaker: Utility-based Routing and its Application in Dynamic Wireless Network, *IEEE ChinaCom*, August 2012.
36. Keynote Speaker: Some Reflections on C&I Education, *CCF CNCC*, November 2011.
37. Keynote Speaker: Some Challenges in Routing in Dynamic Networks, *2011 IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)*, October 2011.
38. Keynote Speaker: Trust Mechanisms and Their Applications in Dynamic and Mobile Computer Systems, *2009 IEEE/IFIP International Symposium on Trusted Computing and Communications*, August 2009.
39. Keynote Speaker: A Utility-based Routing Scheme and Its Applications. *2009 IEEE International Symposium on Parallel and Distributed Processing with Applications (ISPA)*, August 2009.
40. Keynote Speaker: On Self-Organization in MANETs, *The 2nd ACM International Workshop on Foundations of Wireless Ad Hoc and Sensor Networking and Computing (FAWANC)*, May 2009.
41. Keynote Speaker: A Utility-based Routing Scheme in Ad Hoc Networks, *2008 International Conference on Wireless Algorithms, Systems and Applications (WASA)*, October 2008.
42. Keynote Speaker: Mobility in Ad Hoc Wireless Networks: Friend or Foe. *The 8th IEEE International Symposium on Network Computing and Applications (NCA)*, July 2008.
43. Keynote Speaker: Mobility in Ad Hoc Wireless Networks: Friend or Foe. *2008 International Conference on Networking, Architecture, and Storage (NAS)*, July 2008.
44. Keynote Speaker: A Utility-based Routing Scheme in MANETs, *The 4th IEEE International Conference on Mobile Ad-Hoc and Sensor Systems (MASS)*, October 2007.
45. Keynote Speaker: Mobility in Wireless Networks: Blessing or Curse. *The 4th Annual International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services (MOBIQUITOUS 2007)*, August 2007.
46. Keynote Speaker: Controlled Store-Carry-Forward Routing in Mobile Ad Hoc Networks. *The First International Workshop on Specialized Ad Hoc Networks and Systems (SAHNS 2007)*, in conjunction with IEEE ICDCS'07, June 2007.
47. Keynote Speaker: The 2nd International Conference on Mobile Ad-Hoc and Sensor Networks (MSN), 2006.
48. Keynote Speaker: The 6th International Workshop on Parallel and Distributed Scientific and Engineering Computing (PDSEC), 2005.

49. Keynote Speaker: The 3rd International Workshop on Mobile Distributed Computing (MDC), 2005.
50. Keynote Speaker: The 6th International Workshop on Advances in Parallel and Distributed Computational Models, 2004.
51. Keynote Speaker: International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT), 2004.
52. Keynote Speaker: International Symposium on Parallel Processing and Applications, 2003.

### 4.3 Panels (14)

1. Panelist: State of Cyber Security: Current Industry Practices in Testing and Cyber Research Innovations, Temple University, 2020
2. Panelist: GIS and COVID-19 Panel, Temple University, 2020
3. Panelist: Cyber Deception, IEEE CNS, 2019
4. Panelist: Fundamental Understanding and Theory of Network Systems: Resiliency, Performance, and Usability, ARO Workshop, 2017.
5. Panelist: Emerging Research Challenges in the Era of IOT, IEEE ICCCN, 2016.
6. Panelist: Networking Cyber-physical Applications in a Data-centric World, IEEE ICCCN, 2015.
7. Panelist: Mobile Cloud Computing Challenges and Potential-A Communications and Networking Perspective, IEEE INFOCOM, 2014.
8. Panelist: NSF/TCPP Curriculum on Parallel/Distributed Computing for Undergraduates, IEEE EduPar, 2012.
9. Panelist: the Network ViewPoint of Internet of Things (IOT), IOT and Sensor Networks Forum, CNCC, 2011.
10. Panelist: Mobile and Wireless Networking, IEEE ICCCN, 2011.
11. Panel Organizer: Network Science: Hype or Reality? *ACM MobiCom*, 2009.
12. Panelist: Mobile Computing and Systems: Where is the Tofu?, *ACM MobiCom/MobiHoc*, 2007.
13. Panel Organizer: Network Systems in Challenging Environments: Hype or Reality, *IEEE INFOCOM*, 2008.
14. Panelist: Pervasive and Mobile Computing: Continued Challenges and Issues, *IEEE ICCCN*, 2008.

#### 4.4 Distinguished Lectures and Invited Seminars (222)

1. “On Optimal Partitioning and Scheduling of DNNs in Mobile Edge/Cloud Computing,” Department of Computer Science, North Carolina State University, September 2022.
2. “Graph and Structure Design for Complex Networks,” Department of Mathematics, Beijing Jiaotong University, July 2022.
3. “On Optimal Partitioning and Scheduling of DNNs in Mobile Edge/Cloud Computing,” Department of Computer Science, Central China Normal University, May 2022.
4. “On Optimal Partitioning and Scheduling of DNNs in Mobile Edge/Cloud Computing,” Department of Electrical and Computer Engineering, Stevens Institute of Technology, April 2022. (**Distinguished Lecture**)
5. “Cyber Security Defense: From Moving Target Defense to Cyber Deception,” Department of Mathematics, Fujian Normal University, June 2021.
6. “Enhancing Scalability and Liquidation in QoS Lightning Networks,” Department of Computer Science, University of Vienna, April 2021.
7. “On Optimal Partitioning and Scheduling of DNNs in Mobile Cloud Computing,” Department of Computer Science, Jilin University, April 2021.
8. “Scalability and Liquidation Enhancement in QoS Lightning Networks,” College of Engineering Communication, Northwestern Polytechnical University, March 2021.
9. “On Optimal Partitioning and Scheduling of DNNs in Edge Networks,” Department of Electrical Engineering and Computer Science, Texas A&M University at Kingsville, November 2020. (**Distinguished Lecture**)
10. “On Optimal Partitioning and Scheduling of DNNs in Mobile Cloud Computing,” College of Computer Science, Shanghai University, November 2020.
11. “Challenges and Opportunities in Algorithmic Solutions for Re-Balancing in Bike Sharing Systems,” College of Computer Science, Beijing Post and Telecommunications University, October 2020.
12. “Collaborative Mobile Charging: From Abstraction to Solution,” Department of Computer Science, University of Jordan, Jordan, December 2019.
13. “Cyber Security Defense: From Moving Target Defense to Cyber Deception,” Al Maaref University, Lebanon, December 2019.
14. “Collaborative Mobile Charging: From Abstraction to Solution,” Department of Computer Science, American University in Beirut, Lebanon, December 2019.
15. “Maximum Elastic Scheduling Based on the Hose Model,” College of Computer Science, Fudan University, November 2019. (**Distinguished Lecture**)

16. "Maximum Elastic Scheduling Based on the Hose Model," College of Computer Science, Hunan University, November 2019.
17. "Collaborative Mobile Charging: From Abstraction to Solution," College of Computer Science, Northwestern Polytechnical University, November 2019.
18. "Collaborative Mobile Charging: From Abstraction to Solution," College of Science, University of Macau, November 2019.
19. "Collaborative Mobile Charging: From Abstract to Solution," TANDON School of Engineering, New York University, September 2019.
20. "Collaborative Mobile Charging: From Abstract to Solution," Beijing Institute of Technology, June 2019.
21. "Algorithmic Crowdsourcing: Current State and Future Perspective," University of Technology Sydney, Australia, May 2019.
22. "Hose-based Maximum Elastic Scheduling," School of Computer Science and Engineering, Nanyang Technological University, Singapore, December 2018.
23. "Algorithmic Crowdsourcing: Current State and Future Perspective," College of Engineering, University of Tunku Abdul Rahman, Malaysia, December 2018.
24. "Collaborative Mobile Charging: From Abstract to Solution," Department of Computer Science, Rowan University, November 2018.
25. "Collaborative Mobile Charging: From Abstract to Solution," Department of Electrical and Computer Engineering, Arizona State University, November 2018.
26. "Collaborative Mobile Charging: From Abstract to Solution," Department of Computer Science, University of Texas, Dallas, November 2018.
27. "Collaborative Mobile Charging: From Abstract to Solution," Department of Computer Science, University of Delaware, October 2018.
28. "Collaborative Mobile Charging: From Abstraction to Solution," China Three Gorges University, October 2018. (**Distinguished Lecture**)
29. "On Efficient Data Collection Using Autonomous Underwater Vehicles," Department of Computer Science, Nanjing University of Aeronautics & Astronautics, June 2018.
30. "On Self-Organization of Complex Networks in a Dynamic Environment," Department of Computer Science, Hehai University, June 2018.
31. "On Self-Organization of Complex Networks in a Dynamic Environment," Department of Computer Science, Beijing Jiaotong University, June 2018.
32. "Collaborative Mobile Charging: From Abstract to Solution," Department of Computer Science, Shanghai University, June 2018.

33. "Algorithmic Crowdsourcing and Its Applications in Big Data," Department of Computer Science, Jilin University, June 2018.
34. "Collaborative Mobile Charging: From Abstract to Solution," Department of Electrical and Computer Engineering, Xiamen University, June 2018.
35. "Collaborative Mobile Charging: From Abstract to Solution," Department of Electrical and Computer Engineering, Northeastern University, November 2017.
36. "Algorithmic Crowdsourcing and Its Applications in Big Data," Institute of Computing and Cyber-systems, Michigan Tech, September 2017. (**Distinguished Lecture**)
37. "Collaborative Mobile Charging: From Abstract to Solution," Department of Computer Science, University of Toronto, August 2017.
38. "Collaborative Mobile Charging: From Abstract to Solution," Department of Electrical and Computer Engineering, Sun Yat-Sen University, December 2017.
39. "Optimizing MapReduce Framework through Joint Scheduling of Overlapping Phases," Department of Computer Science, Hunan University, July 2017.
40. "Algorithmic Crowdsourcing and Its Applications in Big Data," Department of Electrical Engineering, Xiamen University, July 2017.
41. "Utility-based Routing and Its Applications in Wireless Networks," Department of Electrical Engineering, Xiamen University, July 2017.
42. "Optimizing MapReduce Framework through Joint Scheduling of Overlapping Phases," Department of Computer Science, Huazhong University of Science and Technology, July 2017.
43. "Collaborative Mobile Charging: From Abstract to Solution," Department of Computer Science, University of Buffalo, May 2017.
44. "Algorithmic Crowdsourcing and Its Applications in Big Data," Department of Computer Science, Henan University of Finance and Economics, March 2017.
45. "Algorithmic Crowdsourcing and Its Applications in Big Data," College of Software Engineering, Beijing Institute of Technology, March 2017.
46. "Collaborative Mobile Charging: From Abstract to Solution," Department of Computer Science, Shanghai Jiaotong University, December 2016.
47. "Collaborative Mobile Charging: From Abstract to Solution," Department of Computer Science, University of Brasilia, October 2016.
48. "Collaborative Mobile Charging: From Abstract to Solution," College of Engineering and Technology, Old Dominion University, October 2016. (**Distinguished Lecture**)
49. "Optimizing Roadside Unit Placement in Vehicular CPS," Department of Computer Science, Shanghai Jiaotong University, June 2016.

50. "Algorithmic Crowdsourcing: Current State and Future Perspective," School of Computer Science & Engineering, University of Electronic Science and Technology, June 2016.
51. "Algorithmic Crowdsourcing: Current State and Future Perspective," Department of Computer Science, Nanjing University of Aeronautics and Astronautics, June 2016.
52. "Algorithmic Crowdsourcing: Current State and Future Perspective," School of Computer Science and Technology, University of Science and Technology of China, June 2016.
53. "Algorithmic Crowdsourcing: Current State and Future Perspective," School of Computer Science, North China University of Technology, June 2016.
54. "Collaborative Mobile Charging: From Abstraction to Solution," College of Electrical Engineering, Beijing University of Posts and Telecommunications, June 2016.
55. "Collaborative Mobile Charging: From Abstraction to Solution," Institute for Informatics and Telematics, Italian National Research Council, May 2016.
56. "Collaborative Mobile Charging: From Abstraction to Solution," Department of Computer Science, University of Rome, La Sapienza, May 2016.
57. "Collaborative Mobile Charging and Coverage," University of Alabama, Huntsville, April 2016. (**Distinguished Lecture**)
58. "Optimizing Roadside Advertisement Dissemination in Vehicular CPS," Institute of Computer Technology, Chinese Academy of Science, April 2016.
59. "Collaborative Mobile Charging and Coverage," University of Tsukuba, March 2016.
60. "Collaborative Mobile Charging and Coverage," International Institute of Information Technology (IIIT), Hyderabad, Feb. 2016.
61. "Collaborative Mobile Charging and Coverage," India Institute of Technology (IIT), Hyderabad, Feb. 2016.
62. "Collaborative Mobile Charging and Coverage," Anna University, Feb. 2016.
63. "Collaborative Mobile Charging and Coverage," India Institute of Technology (IIT), Madras, Feb. 2016.
64. "Dual-Centric Data Center Network Architectures," Institute of Computer Technology, Chinese Academy of Science, Nov. 2015.
65. "Optimizing Roadside Advertisement Dissemination in Vehicular CPS," Shanghai Jiaotong University, June 2015.
66. "Collaborative Mobile Charging and Coverage," University of Science and Technology Beijing, June 2015.
67. "Algorithmic Corwdsourcing: Current State and Future Perspective," Tsinghua University, June 2015.

68. "Optimizing Roadside Advertisement Dissemination in Vehicular CPS," Central South University, June 2015.
69. "Algorithmic Corwdsourcing: Current State and Future Perspective," Huazhong University of Science and Technology, June 2015.
70. "Optimizing Roadside Advertisement Dissemination in Vehicular CPS," Sat Yet Sen University, June 2015.
71. "Collaborative Mobile Charging and Coverage," Zhejiang University of Technology, June 2015.
72. "Collaborative Mobile Charging and Coverage," Hangzhou Electronic Technology University, June 2015.
73. "Algorithmic Crowdsourcing: Current Status and Future Perspective," Texas State University, December 2014.
74. "Collaborative Mobile Charging and Coverage in Wireless Sensor Networks," Syracuse University, October 2014.
75. "Algorithmic Crowdsourcing and Funding Opportunities," Purdue University Calumet, September 2014.
76. "Algorithmic Crowdsourcing and Applications in Social Networking," Illinois Institute of Technology, September 2014.
77. "Algorithmic Crowdsourcing and Applications in Social Networking," Colorado State University IS-TeC, March 2014. (**Distinguished Lecture**)
78. "Collaborative Mobile Charging and Coverage in Wireless Sensor Networks," Colorado State University, March 2014.
79. "Algorithmic Crowdsourcing and Applications in Big Data," Shenzhen Institutes of Advanced Technology, May 2014.
80. "Collaborative Mobile Charging and Coverage in Wireless Sensor Networks," Pontificia Universidad Catolica de Chile, June 2014.
81. "Algorithmic Crowdsourcing and Applications in Big Data," Universidad Finis Terrae, June 2014.
82. "Algorithmic Crowdsourcing and Applications in Big Data," Tsinghua University, July 2014.
83. "Collaborative Mobile Charging and Coverage in Wireless Sensor Networks," Institute of Computer Technology, Chinese Academy of Science, July 2014. (**Distinguished Lecture**)
84. "Algorithmic Crowdsourcing and Applications in Big Data," Suzhou University, July 2014.
85. "Collaborative Mobile Charging and Coverage in Wireless Sensor Networks," University of Electronic Science and Technology of China, July 2014.



86. "Collaborative Mobile Charging and Coverage in Wireless Sensor Networks," Jilin University, July 2014.
87. "Collaborative Mobile Charging and Coverage in Wireless Sensor Networks," New Jersey Institute of Technology, November 2013.
88. "Algorithmic Crowdsourcing," Hunan University, November 2013.
89. "Social-Aware Routing in Delay Tolerant Networks," Central South University, June 2013.
90. "Utility-Based Routing," Dalian University of Technology, June 2013.
91. "Utility-based Routing and Its Applications," Wayne State University, March 2013. (**ACM Distinguished Lecture**)
92. "Utility-based Routing and Its Applications in Dynamic Wireless Networks," University of Michigan Dearborn, October 2012. (**Distinguished Lecture**)
93. "Utility-based Routing," University of Belgrade, September 2012.
94. "Utility-based Routing," Hunan University, August 2012.
95. "Utility-based Routing," Hunan University of Humanities, Science and Technology, August 2012.
96. "Cooperative Private Searching in Clouds," Tsinghua University, July 2012. (**Intellectual Venture Chair Professor Group Distinguished Lecture**)
97. "A Utility-based Routing in Dynamic Wireless Network," Rutgers University, March 2012.
98. "Some Challenges in Routing in Dynamic Networks," Ohio State University, Oct. 2011. (**Distinguished Lecture**)
99. "Security and Privacy in Multimedia Retrieval in Cloud," The Polytechnic University of Hong Kong, June 2011.
100. "Challenges in Wireless and Mobile network Applications," University of Electronic Science and Technology of China, June 2011.
101. "Challenges in Wireless and Mobile network Applications," Tsinghua University, June 2011.
102. "Challenges in Wireless and Mobile network Applications," UAE University, June 2011. (**Distinguished Lecture**)
103. "A Utility-based Routing in Wireless Networks," City of University of Hong Kong, June 2011.
104. "Challenges in Wireless and Mobile network Applications," The Polytechnic University of Hong Kong, May 2011.
105. "Mobility in Wireless Networks: Friends or Foes," Pennsylvania State University, April 2011.
106. "Mobility in Wireless Networks: Friends or Foes," University of Pennsylvania, March 2011.

107. "Mobility in Wireless Networks: Friends or Foes," Indian Institute of Technology, Delhi, January 2011.
108. "Mobility in Wireless Networks: Friends or Foes," Indian Institute of Technology, Bombay, January 2011.
109. "Mobility in Wireless Networks: Friends or Foes," College of William and Mary, October 2010. **(Distinguished Lecture)**
110. "Taming Complex Dynamic Network Models: Slicing and Visualization," Shanghai Jiaotong University, China, July 2010.
111. "The Wireless Networks in Challenged Environments: Challenges and Opportunities," Central South University, China, July 2010.
112. "Taming Complex Dynamic Network Models: Slicing and Visualization," The Polytechnic University of Hong Kong, July 2010.
113. "The Wireless Networks in Challenged Environments: Challenges and Opportunities," Zhongshan University, China, July 2010.
114. "Computer Technology in a Changing World of Globalization," University of Ricardo Palma, Lima, Peru, May 2010.
115. "Mobility in Wireless Networks: Friends or Foes," Lehigh University, April 2010.
116. "Mobility in Wireless Networks: Friends or Foes," Drexel University, March 2010.
117. "Mobility in Wireless Networks: Friends or Foes," University of Memphis, March 2010.
118. "Mobility in Wireless Networks: Friends or Foes," Stevens Institute of Technology, Dec. 2009.
119. "Mobility in Wireless Networks: Friends or Foes," University of Illinois at Urbana-Champaign, Oct. 2009.
120. "Trust Mechanisms and Applications in Dynamic Network Systems," Indiana University-Purdue University Indianapolis, Oct. 2009.
121. "Mobility in Wireless Networks: Friends or Foes," Institute of Software at Chinese Academic of Sciences, Sept. 2009.
122. "Mobility in Wireless Networks: Friends or Foes," Tsinghua University, Sept. 2009.
123. "Mobility in Wireless Networks: Friends or Foes," Shanghai Jiaotong University, May 2009.
124. "Research Directions in Mobile Ad Hoc Networks," Shanghai Jiaotong University, Shanghai, China August 2006.
125. "Research Directions in Mobile Ad Hoc Networks," Nanjing University, Nanjing, China, July 2006.
126. "Mobility in Mobile Ad Hoc Networks: Friend or Foe," Zhejiang University, Zhejiang, China, July 2006.

127. "Research Directions in Mobile Ad Hoc Networks," National University of Defense Technology, Changda, China, July 2006.
128. "Research Directions in Mobile Ad Hoc Networks," Inner Mongolia University, Inner Mongolia, Huhot, China, June 2006.
129. "Mobility in Mobile Ad Hoc Networks: Friend or Foe," Toyko Denki University, Toyko, Japan, June 2006.
130. "Mobility in Mobile Ad Hoc Networks: Friend or Foe," Wayne State University, April 2006.
131. "Mobility in Mobile Ad Hoc Networks: Friend or Foe," University of Alabama, March 2006.
132. "Self-Stabilization in Mobile Ad Hoc Networks," Georgia Institute of Technology, November 2005.
133. "Mobility in Mobile Ad Hoc Networks: Friend or Foe," Ohio State University, October 2005. (**Distinguished Lecture**)
134. "Localized Algorithms and Their Applications in Ad Hoc Wireless Networks," Montclair State University, September 2005.
135. "How to Write a Successful Proposal: A Personal Reflection," Montclair State University, September 2005.
136. "Research Directions in Mobile Ad Hoc Networks," National Central University, Taiwan, July 2005.
137. "Scan-Based Load Distribution in Sensor Networks," National Central University, Taiwan, July 2005.
138. "Dominating-Set-Based Routing in Ad Hoc Networks," National Central University, Taiwan, July 2005.
139. "Dominating-Set-Based Routing in Ad Hoc Networks," Hong Kong Baptist University, Hong Kong, July 2005.
140. "Mobility in Mobile Ad Hoc Networks: Friend or Foe," City University of Kong Kong, Hong Kong, July 2005.
141. "Scan-Based Load Distribution in Sensor Networks," Hong Kong Polytechnic University, Hong Kong, July 2005.
142. "Dominating-Set-Based Routing in Ad Hoc Networks," University of Burnos Aires, Burnos Aires, Argentina, June 2005.
143. "Localized Algorithms and Their Applications in Ad Hoc Wireless Networks," College of Computing, Wuhan University, Wuhan, China, May 2005.
144. "Ad Hoc Networks," College of Computing, Huazhong University of Science and Technology, Wuhan, China, May 2005.
145. "Localized Algorithms and Their Applications in Ad Hoc Wireless Networks," College of Computing, Shanghai University, Shanghai, China, May 2005.

146. "Dominating-Set-Based Routing in Ad Hoc Wireless Networks," Department of Computer Science, American University of Beirut, Beirut, Lebanon, January 2005.
147. "Dominating-Set-Based Routing in Ad Hoc Wireless Networks," Zhongshang University, Guangzhou, China, December 2004.
148. "Local-Information-Based Routing and Broadcasting in Ad Hoc Networks," Department of Computer Engineering, George Washington University, November 2004.
149. "Efficient and Localized Broadcasting in MANETs," NSF PI Meeting, Manchester, NH, November 2004.
150. "Localized Algorithms and Their Applications in Sensor Networks," Department of Computer Science, Shanghai Jiaotong University, Shanghai, China, July 2004.
151. "Localized Algorithms and Their Applications in Ad Hoc (and Sensor) Networks," International Conference on High Performance Computational Applications, Shanghai, China, July 2004.
152. "Localized Algorithms and Their Applications in Sensor Networks," Tyco, Boca Raton, FL, May 2004.
153. "Secured Routing Protocols in Ad Hoc Wireless Networks," Dept. of Computer Science, West Chester University, April 2004.
154. "Dominating-Set-Based Searching in Peer-to-Peer Networks," University of Aizu, Aizu, Japan, March 2004.
155. "Dominating-Set-Based Routing in Ad Hoc Wireless Networks," Dept. of Computer Science, Nanjing University, Nanjing, China, March 2004.
156. "Localized Algorithms and Their Applications in Ad Hoc Wireless Networks," Dept. of Computer Science, Hong Kong University of Science and Technology, Hong Kong, March 2004.
157. "Distributed System Design: An Overview," National University of Defense Technology, Changsa, China, December 2003.
158. "Dominating-Set-Based Routing in Ad Hoc Wireless Networks," College of Engineering, Central Chinese University, Changsa, China, December 2003.
159. "Dominating-Set-Based Routing in Ad Hoc Wireless Networks," Dept. of Computer Science, Michigan State University, November 2003.
160. "Dominating-Set-Based Routing in Ad Hoc Wireless Networks," Dept. of Electrical and Computer Engineering, Old Dominion University, October 2003.
161. "Localized Algorithms and Their Applications in Ad Hoc Wireless Networks," Chinese NSF Workshop on Advance in Computer Science, Fujian, China, December 2003.
162. "Dominating-Set-Based Routing in Ad Hoc Wireless Networks," Dept. of Computer Science, University of Tsukuba, Tsukuba, Japan, July 2003.

163. "Dominating-Set-Based Routing in Ad Hoc Wireless Networks," Dept. of Electrical and Computer Engineering, McGill University, Montreal, Canada, June 2003.
164. "Dominating-Set-Based Routing in Ad Hoc Wireless Networks," Dept. of Computer Engineering, University of Massachusetts at Amherst, November 2002.
165. "Dominating-Set-Based Routing in Ad Hoc Wireless Networks," Dept. of Computer Science, University of Nebraska at Lincoln, October 2002.
166. "Dominating-Set-Based Routing in Ad Hoc Wireless Networks," Dept. of Computer Science, Northeastern University, Qinghuangdao, China, August 2002.
167. "Distributed System Design," Dept. of Computer Science, Nanjing University, Nanjing, China, July 2002.
168. "Dominating-Set-Based Routing in Ad Hoc Wireless Networks," Dept. of Computer Science, University of Connecticut, December 2001.
169. "Distributed System Design: An Overview," College of Information Science, Shanghai Jiaotong University, Shanghai, China, December 2001.
170. "Fault-Tolerant Routing in Hypercubes," Dept. of Mathematics, Polytechnic University of Milan, Milan, Italy, November 2001.
171. "Dominating-Set-Based Routing in Ad Hoc Wireless Networks," Dept. of Computer Science, Polytechnic University of Milan, Milan, Italy, November, 2001.
172. "Dominating-Set-Based Routing in Ad Hoc Wireless Networks," Dept. of Computer Science, Zhejiang University, Hangzhou, China, June 2001.
173. "Distributed System Design: An Overview," Dept. of Computer Science, Tamkang University, Taiwan, May 2001.
174. "Dominating-Set-Based Routing in Ad Hoc Wireless Networks," Dept. of Computer Science, National Jiaotong University, Taiwan, May 2001.
175. "Dominating-Set-Based Routing in Ad Hoc Wireless Networks," Academy of Science, Taiwan, May 2001.
176. "On Sorting An Intransitive Total Ordered Set Using Semi-Heap," Dept. of Computer Science, Kent State University, January 2001.
177. "Parallel Processing: Past, Present, and Future," Dept. of Computing, The Hong Kong Polytechnic University, Hong Kong, December 2000.
178. "On Sorting An Intransitive Total Ordered Set Using Semi-Heap," Dept. of Computing, The Hong Kong Polytechnic University, Hong Kong, December 2000.
179. "Routing Protocols for Ad Hoc Wireless Networks," Dept. of Computer Science, University of Minnesota (sponsored by **Cray Inc.**), October 2000.

180. "Routing Protocols for Ad Hoc Wireless Networks," Dept. of Electrical & Computer Engineering and Computer Science, University of Cincinnati (**IEEE Distinguished Lecture**), October 2000.
181. "Routing Protocols for Ad Hoc Wireless Networks," IEEE Ottawa Chapter (**IEEE Distinguished Lecture**), August 2000.
182. "Routing Protocols for Ad Hoc Wireless Networks," Dept. of Computer Science, City University of Hong Kong, Hong Kong, June 2000.
183. "Routing Protocols for Ad Hoc Wireless Networks," Dept. of Computer Science, Shanghai Jiaotong University, Shanghai, China, May 2000.
184. "Routing Protocols for Ad Hoc Wireless Networks," Dept. of Computer Science and Technology, Tsinghua University, Beijing, China, May 2000.
185. "Routing Protocols for Ad Hoc Wireless Networks," Dept. of Computer Science, Shanghai University, Shanghai, China, May 2000.
186. "Routing Protocols for Ad Hoc Wireless Networks," IEEE Central Texas Chapter (**IEEE Distinguished Lecture**), January 2000.
187. "Routing Protocols for Ad Hoc Wireless Networks," Dept. of Mathematics and Computer Science, Southwest Texas State University, January 2000.
188. "Routing Protocols for Ad Hoc Wireless Networks," Motorola at Plantation, Florida, November 1999.
189. "On Sorting An Intransitive Total Ordered Set Using Semi-Heap," Dept. of Computer Science, Nanjing University, Nanjing, China, June 1999.
190. "Fault-Tolerant Communication in Direct Networks," Dept. of Computer Science, University of Toledo, May 1999.
191. "Fault-Tolerant Communication in Direct Networks," IEEE Philadelphia Chapter, January 1999. (**IEEE Distinguished Lecture**)
192. "Parallel Processing: Past, Present, and Future," Dept. of Computer Science, Univ. of New South Wales, Sydney, Australia, December 1998.
193. "Fault-Tolerant Communication in Point-to-Point Networks," Dept. of Computer Science, Old Dominion University, November 1998.
194. "Fault-Tolerant Adaptive and Minimal Routing in Mesh-Connected Multicomputers," Dept. of Computer Science, National Central University, Taiwan, May 1998.
195. "Reliable Communication in Cube-Based Multicomputers," Dept. of Computer Science, National Taiwan University, Taiwan, May 1998.
196. "Distributed System Design: An Overview," Dept. of Computer Science, National Tsinghua University, Taiwan, May 1998.

197. "Parallel Processing: Past, Present, and Future," Dept. of Engineering Science, National Cheng-Kung University, Taiwan, May 1998.
198. "Reliable Communication in Cube-Based Multicomputers," Dept. of Computer Science, Tokyo Denki University, Tokyo, Japan, April 1998.
199. "Reliable Communication in Cube-Based Multicomputers," Dept. of Computer Science, The University of Vermont, September 1997.
200. "Minimal Routing in 2-D Meshes Using Extended Safety Levels," Dept. of Computer Science, Nanjing University, Nanjing, China, July 1997.
201. "Reliable Communication in Cube-Based Multicomputers Using Safety Vectors," Dept. of Computer Science, Nanjing University, Nanjing, China, July 1997.
202. "Reliable Communication in Cube-Based Multicomputers," Dept. of Computer Science, Xi'an Jiaotong University, Xi'an, China, July 1997.
203. "Parallel Processing: Past, Present, and Future," Institute of Computing Science, Chinese Academic of Science, Beijing, China, June 1997.
204. "Reliable Communication in Cube-Based Multicomputers," Dept. of Computer Science and Technology, Tsinghua University, Beijing, China, June 1997.
205. "Parallel Processing: Past, Present, and Future," Dept. of Computer Science, Nanjing University, Nanjing, China, June 1996.
206. "Distributed System Design," American University of Bulgaria, Blagoevgrad, Bulgaria, April 1996.
207. "Unicasting in Faulty Hypercube Using Safety Levels," Dept. of Computer Science, University of Newcastle Upon Tyne, Newcastle, England, March 1996.
208. "Parallel Processing: Past, Present, and Future," Motorola at Boynton Beach, FL, September 1995.
209. "Reliable Communication Using Safety Levels," Dept. of Computer Science, Nanjing University, Nanjing, China, July 1995.
210. "Parallel Processing: Past, Present, and Future," The 4th International Conference for Young Computer Scientists, Beijing, China, July 1995.
211. "Parallel Processing: Past, Present, and Future," Dept. of Computer Science, Shanghai Railway University, Shanghai, China, July 1995.
212. "Unicasting in Faulty Hypercubes Using Safety Levels," Dept. of Computer Science, Louisiana State University, February 1995.
213. "Reliable Broadcasting in Injured Hypercubes," Institute of Computing Science, Polish Academy of Sciences, Warsaw, Poland, June 1994.
214. "Reliable Broadcasting in Injured Hypercubes," Institute of Computing Technology, Chinese Academy of Sciences, Beijing, China, July 1993.

215. "Reliable Broadcasting in Injured Hypercubes," Dept. of Computer Science, Shanghai University of Science and Technology, Shanghai, China, July 1993.
216. "Optimal Binomial-Tree Based Broadcasting in Injured Hypercubes," Dept. of Computer and Information Science, Polytechnic University of Madrid, Madrid, Spain, January 1993.
217. "Broadcasting in Faulty Hypercubes," Dept. of Computer Science, University of Hong Kong, Hong Kong, July 1992.
218. "The Design of Fault-Tolerant Concurrent Software Using Petri Nets," College of Computing, Georgia Institute of Technology, May 1991.
219. "The Design of Fault-Tolerant Concurrent Software Using Petri Nets," Dept. of Computer Science, Old Dominion University, April 1991.
220. "Cube-Connected-Cube Networks," Dept. of Computer Science, University of Rhode Island, October 1990.
221. "Hypercube Multicomputers," IEEE Computer Society, Palm Beach Chapter, September 1990.
222. "The Design of Fault-Tolerant Concurrent Software Using Petri Nets," Dept. of Computer Science, Utah State University, February 1990.
223. "The Design of Fault-Tolerant Concurrent Software Using Petri Nets," Dept. of Computer Science, Xavier University, New Orleans, August 1989.

## 5 Research

### 5.1 Sponsored Research

- *Collaborative Research: BPC Supplement: Data Augmentation and Adaptive Learning for Next Generation Wireless Spectrum Systems* (Co-PI) (CNS 2214940) 08/22-07/24  
Supported by National Science Foundation (NSF), Alexandria, VI. (\$119,998)
- *ARO Workshop on Security in Wireless Networks and Mobile Computing* (PI) 07/22-05/23  
Supported by U.S. Army Research Office (ARO), Durham, NC. (\$29,500)
- *Collaborative Research: CPS: Medium: RUI: Cooperative AI Inference in Vehicular Edge Networks for Advanced Driver-Assistance Systems* (PI) (CNS 2128378) 10/21-09/24  
Supported by National Science Foundation (NSF), Alexandria, VI. (\$1,200,000, Temple: \$342,035)
- *Collaborative Research: CNS Core: Medium: Data Augmentation and Adaptive Learning for Next Generation Wireless Spectrum Systems* (Co-PI) (CNS 2107014) 10/21-09/24  
Supported by National Science Foundation (NSF), Alexandria, VI. (\$1,200,000, Temple: \$599,991)
- *REU Site: Research Experiences in Pervasive Computing for Smart Health, Safety, and Well-being* (Co-PI) (CNS 2150152), Renewed 03/22-02/25  
Supported by National Science Foundation (NSF), Arlington, VI. (\$409,297)



- *SpecEES: Collaborative Research: Study of the Tradeoff between Spectrum Allocation Efficiency and Operation Privacy in Dynamic Spectrum Access Systems* (Co-PI) (CNS 1828363) 10/18-09/21  
Supported by National Science Foundation (NSF), Alexandria, VI. (\$329,998)
- *MRI: Development of an Information Assurance and Performance Infrastructure for the Internet of Things* (Co-PI) (CNS 1824440) 10/18-09/21  
Supported by National Science Foundation (NSF), Arlington, VI. (\$400,000)
- *Cyber Forensics Toolkit for Machinery Control* (PI) 06/18-10/21  
Supported by Office of Naval Research (ONR), Arlington, VA. (\$1,500,000, Temple: \$500,000)
- *REU Site: Research Experiences in Pervasive Computing for Smart Health, Safety, and Well-being* (Co-PI) (CNS 1757533) 03/18-02/22  
Supported by National Science Foundation (NSF), Arlington, VI. (\$339,575)
- *Moving Target Defense in Military Organization with Connected Dominating Set as Command Units* (PI) 08/17-05/18  
Supported by Army Research Office (ARO), Research Triangle Park, NC. (\$60,000)
- *TWC: Small: Evidence of Presence for Intelligent Vehicles using Environment-Based Security* (Co-PI) (CNS 1618398) 08/16-07/19  
Supported by National Science Foundation (NSF), Arlington, VI. (\$416,936)
- *NeTS: Medium: Collaborative Research: Coexistence of Heterogeneous Wireless Access Technologies in the 5 GHz Bands* (PI) (CNS 1564128) 08/16-07/19  
Supported by National Science Foundation (NSF), Arlington, VI. (\$1,000,000, Temple: \$399,999)
- *BDD: Dynamic Evolution of Smart-Phone Based Emergency Communications Network* (Co-PI) (CNS 1461932) 06/15-05/18  
Supported by National Science Foundation (NSF), Arlington, VI. (\$299,999)
- *REU Site: Enhancing Undergraduate Experience in Mobile Cloud Computing* (PI) (CNS 1460971) 05/2015 - 04/18  
Supported by National Science Foundation (NSF), Arlington, VI. (\$342,525)
- *US Ignite: Mobility-Enhanced Public Safety Surveillance System using 3D Cameras and High Speed Broadband Networks* (PI) (CNS 1449860) 09/14 - 08/16  
Supported by National Science Foundation (NSF), Arlington, VI. (\$199,995)
- *I/UCRC Phase II: Center on Intelligent Storage* (Co-PI) (IIP 1439672) 09/14-09/20  
Supported by National Science Foundation (NSF), Arlington, VI. (\$350,000)
- *A Test-bed of Secure Mobile Cloud Computing for Military Applications* (Co-PI) 09/14 - 08/15  
Supported by Army Research Office (ARO), Research Triangle Park, NC. (\$86,211)
- *NSF CAREER Workshop* (PI) (CCF 1301774) 12/12-11/13  
Supported by National Science Foundation (NSF), Arlington, VI. (\$49,999)

- *Collaborative Research: CCSS: Cyber-Enabled Smart Systems for Seamless Secure Monitoring and Communications* (PI) (ECCS 1231461) 09/12-08/15  
 Supported by National Science Foundation (NSF), Arlington, VI. (\$500,000, Temple: \$149,868)
- *REU Site: Enhancing Undergraduate Experience in Next Generation Networking Technologies* (Co-PI) (CNS 1156574) 06/12 - 05/15  
 Supported by National Science Foundation (NSF), Arlington, VI. (\$319,932)
- *Urban Apps and Maps Ecosystem Studio* (Co-PI) 10/11 - 09/15  
 Supported by Economic Development Administration (EDA), Department of Commerce. (\$500,000)
- *Eager: A Meso-Scale GENI WiMax Project* (PI) (CNS 1138963) 09/11 - 08/13  
 Supported by National Science Foundation (NSF), Arlington, VI. (\$199,716)
- *Formula Grant: Body Sensor Networks and Their Applications in Maternal Fetal Monitoring* (PI) 09/11 - 08/13  
 Supported by State of Pennsylvania. (\$300,000)
- *NeTS: Medium: Collaborative Research: Mobile Content Sharing Networks: Theory to Implementation.* (PI) (CNS 1065444) 07/11 - 06/15  
 Supported by National Science Foundation (NSF), Arlington, VI. (\$1,000,000, Temple: \$457,000)
- *CCSS: An Architecture for Joint Integration of Inter and Intrasession Network Coding in Lossy Wireless Multihop Networks.* (Co-PI) (ECCS 1128209) 08/11 - 07/14  
 Supported by National Science Foundation (NSF), Arlington, VI. (\$329,163)
- *EAGER: Mobile Multicore Computing.* (PI) (CCF 1028167) 09/10 - 08/12  
 Supported by National Science Foundation (NSF), Arlington, VI. (\$144,409)
- *MRI-R2: Acquisition: A Hybrid High-Performance GPU/CPU System.* (PI) (CNS 0958854) 05/10 - 04/13  
 Supported by National Science Foundation (NSF), Arlington, VI. (\$839,221)
- *EAGER: A New Algorithmic and Graph Model for Networking in Challenged Environments* (PI) (CNS 0948184) 09/09 - 09/11  
 Supported by National Science Foundation (NSF), Arlington, VI. (\$199,391)
- *Energy-Efficient Design in Wireless Networks Using Cooperative Communication* (PI) (CCF 0830289, renewal of CCR 039741) 09/08 - 09/11  
 Supported by National Science Foundation (NSF), Arlington, VI. (\$277,370)
- *Mobility-Assisted Routing in Mobile Networks.* (PI) 09/06-09/09  
 Supported by National Science Foundation (NSF), Arlington, VA (\$284,943)
- *IEEE MASS 2006 Travel Grant.* (PI) 09/06-09/07  
 National Science Foundation (NSF), Arlington, VA (\$15,000)
- *Acquisition of a NUMA-Based Supercluster for High Performance Computing.* (PI) 9/05 - 9/08  
 Supported by National Science Foundation (NSF), Arlington, VA (CNS 0521410) (\$447,191)

- *IEEE MASS 2006 Travel Grants.* (PI) 07/06-08/07  
Supported by a grant from Army Research Office (ARO), NC. (\$8,000)
- *Service Grant.* (PI) 06/06-09/06  
Supported by SIVA Corp., Boca Raton, FL (\$4,445)
- *Design of High-Performance Publish/Subscribe Systems for Mobile Computing Environments.*  
(Co-PI with Prof. J. Cao) 2006-2007  
Supported by Hong Kong RGC grant, Hong Kong (805,200 HK Yuan = \$102,000)
- *Outstanding Overseas Young Researcher Award.* (PI) 08/06 - 07/09  
Supported by National Nature Science Foundation of China (NSFC), China (400,000 Yuan = \$50,000)
- *Research Experiences for Undergraduates (REU) 1.* (PI) 05/06-05/07  
Supported by National Science Foundation (NSF), Arlington, VA (\$11,875)
- *Research Experiences for Undergraduates (REU) 2.* (PI) 05/06-05/07  
Supported by National Science Foundation (NSF), Arlington, VA (\$15,000)
- *Research Experiences for Undergraduates (REU) 3.* (PI) 05/06-05/07  
Supported by National Science Foundation (NSF), Arlington, VA (\$15,000)
- *Efficient and Localized Broadcasting in Ad Hoc Wireless Networks.* (PI) 09/04 - 09/07  
Supported by National Science Foundation, Arlington, VA (CNS 0422762) (\$225,000)
- *Wireless and Sensor Network Laboratory.* (Co-PI) 08/04 - 08/07  
Supported by National Science Foundation, Arlington, VA (CNS 0434533) (\$57,263)
- *Secure Telecommunication Networks.* (Co-PI) 09/04 - 09/06  
Supported by Defense Information Systems Agency (DISA) (\$300,000 out of \$3,000,000)
- *Parallel Programming.* (PI) 05/05-08/05  
Supported EDSS, Inc., Port St. Lucie, FL (\$6,000)
- *Energy Efficient Communication in Sensor Networks.* (PI) 09/03 - 09/06  
Supported by National Science Foundation (NSF), Arlington, VA (CCR 039741) (\$375,000)
- *International Workshop on Theoretical and Algorithmic Aspects of Sensor, Ad Hoc Wireless, and Peer-to-Peer Networks.* (PI) 10/03 - 10/04  
Supported by National Science Foundation (NSF), Arlington, VA (CCR 0335238) (\$22,200)
- *Research Experiences for Undergraduates (REU) 4.* (PI) 05/03 - 05/04  
Supported by National Science Foundation (NSF), Arlington, VA (\$11,650)
- *Self-Organization Cluster-Tree Design in ns-2 Platform.* (PI) 08/03 - 07/04  
Supported by a grant Florida Communication Research Lab., Motorola, Inc. Plantation, FL (\$60,000)
- *Research Experiences for Undergraduates (REU) 5.* (PI) 05/02 - 05/03  
Supported by National Science Foundation (NSF), Arlington, VA (\$5,500)

- *A Low Cost Parallel and Distributed Systems Laboratory.* (PI) 09/01 - 09/04  
Supported by National Science Foundation (NSF), Arlington, VA (EIA 0130806) (\$79,039)
- *A Dominating-Set-Based Routing Scheme in Ad Hoc Wireless Networks.* (PI) 06/00 - 06/03  
Supported by National Science Foundation (NSF), Arlington, VA (ANI 0073736) (\$181,957)
- *A Theory of Fault-Tolerant Adaptive and Minimal Routing in Mesh-Connected Multicomputers.* (PI)  
04/99 - 04/03  
Supported by National Science Foundation (NSF), Arlington, VA (CCR 9900646) (\$134,109)
- *Implementation of Radio Service Software.* (PI) 01/97 - present  
Supported by a grant from Motorola, Inc. Plantation, FL (\$1,898,255)
- *Research Experiences for Undergraduates (REU) 6.* (PI) 04/02- 05/03  
Supported by National Science Foundation (NSF), Arlington, VA (\$5,825)
- *Software Path Coverage.* (PI) 01/03 - 12/03  
Supported by a grant from Motorola, Inc. Plantation, FL (\$55,487)
- *Cell Phone Software Testing.* (PI) 01/02 - 12/02  
Supported by a grant from Motorola, Inc. Coconut Creek, FL (\$12,505)
- *Web Design Using Java.* (PI) 08/01-12/01  
Supported by a grant from SIVA Corp., Boca Raton, FL (\$15,890)
- *Network Administration.* (PI) 04/01-12/01  
Supported by a grant from Malema Corp., Boca Raton, FL (\$19,028)
- *Testing of Application Software.* (PI) 10/22/99-04/21/00  
Supported by a grant from Motorola, Inc., Boynton, FL (\$9,287)
- *Implementation of Application Software.* (PI) 08/12/99-12/31/99  
Supported by a grant from Alpine Engineered, Boca Raton, FL (\$11,582)
- *Functional Parallelization of the Everglades Landscape Fire Model.* (PI) 04/97-03/99  
Supported by a grant from South Florida Water Management District, West Palm Beach, FL (\$34,219)
- *Domain-Specific Software Engineering on Pager Development.* (PI) 01/97-01/98  
Supported by a grant from Motorola, Inc., Boynton Beach, FL (\$40,025)
- *Load Balancing of the Everglades Landscape Model.* (PI) 10/94-04/97  
Supported by a grant from South Florida Water Management District, West Palm Beach, FL (\$62,556)
- *Computer System Evaluation.* (PI) 01/90-05/95  
Supported by a grant from IBM, Boca Raton, FL (\$1,030,000)
- *A Privilege-Based Security Model for Distributed Systems.* (PI) 07/91-07/92  
Supported by a grant from Florida Atlantic University Foundation, Inc. (\$500)
- *Fault-Tolerant Concurrent Software.* (Co-PI) 01/90-12/90  
Supported by a grant from Florida High Tech. and Industry Council (\$52,744)

## 6 Professional Service

### 6.1 Membership Professional Societies

- Academia Europaea (The European Academy of Sciences) (Foreign Member)
- American Association for the Advancement of Science (AAAS) (Fellow)
- Institute of Electrical and Electronics Engineering (IEEE): Computer Society, Communications Society, Circuits and Systems Society (Fellow)
- Association for Computing Machinery (ACM) (Senior Member since 2006)
- Upsilon Pi Epsilon: Computing Science Honor Society

### 6.2 Editorial Board

- IEEE Network Magazine (2023 - present)
- IEEE Transactions on Service Computing (1/2013 - present)
- Journal of Parallel and Distributed Computing (2009 - 2021)
- IEEE Transactions on Network Science and Engineering (Guest Editor, 2019) (special issue on “Smart Systems and Intelligent Networking Powered with Big Data Analytic”)
- IEEE Transactions on Mobile Computing (9/2018-1/2023)
- Journal of Parallel and Distributed Computing (Guest Editor, 2019) (special issue on “Security & Privacy in Social Big Data”)
- Journal of Parallel and Distributed Computing (Guest Editor, 2018) (special issue on “High-Performance Computing in Edge Computing Networks”)
- Journal of Computer Science and Technology (Lead Editor for Computer Network and Distributed Computing) (09/2002-present)
- Journal of Sensor and Actuator Networks (JSAN) (2015 - present)
- IEEE Transactions on Computers (2009 - 2014)
- Science China (Information Sciences) (2014 - 2017)
- Frontier of Computer Science (01/2010 - present)
- Journal of Interconnection Networks (2019 - present)
- International Journal of Security and Networks (IJSN) (01/2008)
- Ad Hoc & Sensor Wireless Networks: An International Journal (AHSWN) (10/2004)

- International Journal of Parallel, Emergent, and Distributed Systems (IJPEDS) (10/2004)
- Journal of Pervasive Computing and Communications (JPCC) (09/2004)
- International Journal of High Performance Computing and Networking (IJHPCN) (09/2003)
- IEEE Transaction on Mobile Computing (11/2008 - 2010)
- ACTA Press/ IASTED International Journal of Computers and Applications (Co-Editor-in-Chief, 09/2003 - 01/2007)
- Computer Networks (2009)
- Elsevier Computer Communications (1/2008 - 12/2009)
- IEEE Transactions on Parallel and Distributed Systems (2001 - 2005)
- ISCA International Journal of Computers and Their Applications (Associate Editor in Networks and Protocols, 9/1999 - 12/2002).
- International Advisory Board, High Education Publishing Inc., China.

### **6.3 Conference Organization (major role)**

1. Area TPC Chair: IEEE Conference on Computer Communications (INFOCOM), 2024.
2. General Co-Chair: The 24th ACM International Symposium on Theory, Algorithmic Foundations, and Protocol Design for Mobile Networks and Mobile Computing (MobiHoc), 2023.
3. General Co-Chair: IEEE International Parallel Distributed Processing Symposium (IPDPS), 2023.
4. Area TPC Chair: IEEE Conference on Computer Communications (INFOCOM), 2023.
5. General Chair: IEEE International Conference on Networking, Architecture, and Storage (NAS), 2022.
6. General Co-Chair: International Conference on Mobility, Sensing and Networking (MSN), 2022.
7. Program Area Chair: IEEE Conference on Computer Communications (INFOCOM), 2022.
8. General Co-Chair: International Conference of Distributed Computing and Networking (ICDCN), 2022.
9. General Co-Chair: The 7th International Symposium on Security and Privacy in Social networks and Big Data (SocialSec), 2021.
10. General Co-Chair: The 19th International Symposium on Modeling and Optimization in Mobile, Ad hoc, and Wireless Networks (WiOpt), 2021.
11. Steering Committee Member: Workshop on IoT based Big Data Architectures and Applications, in conjunction with the 2020 IEEE International Conference on Big Data (IEEE Big Data), 2020.

12. Honorary Chair: The 1st International Conference on Cyber Security, Privacy and Networking (IC-SPN 2020).
13. TPC Co-Chair: The 29th International Conference on Computer Communications and Networks (ICCCN), 2020.
14. Program Area Chair: IEEE Conference on Computer Communications (INFOCOM), 2015, 2016, 2017, 2018, 2019, 2020, 2021, and 2022.
15. Workshop Co-chair: IEEE Global Communication Conference (GLOBECOM), 2019.
16. Workshop General Chair: IEEE International Conference on Mobile Ad-Hoc and Smart Systems (MASS), 2019.
17. Program Area Chair: IEEE Conference on Distributed Computing Systems (ICDCS), 2019.
18. Workshop General Co-chair: IEEE Global Communication Conference (GLOBECOM), 2018.
19. Steering Committee Chair: The 3rd, 4th, 5th, and 6th National Workshop for REU Research in Networking and Systems, 2017 (Spring and Fall), 2018, and 2019.
20. General Chair: The 45th International Conference on Parallel Processing (ICPP), 2016.
21. General Chair: IEEE Conference on Communications and Network Security (CNS), 2016.
22. Symposium chair: Resilient Communication Systems, Resilience week, August 2015.
23. General Chair: The 15th ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), 2014.
24. Workshop Chair: The 1st and 2nd National Workshop for REU Research in Networking and Systems, 2014 and 2015.
25. Program Area Chair: IEEE International Conference on Network Protocols (ICNP), 2014.
26. Program Chair: CCF China National Computer Congress (CNCC), 2013.
27. General Chair: The 33rd IEEE International Conference on Distributed Computing Systems (ICDCS), 2013.
28. Program Chair: Workshop on Security and Reliability in Transparent Computing (SRTC), 2013.
29. General Co-Chair: The 12th IEEE International Symposium on Signal Processing and Information Technology (ISSPIT), 2012.
30. Co-Chair: IEEE INFOCOM Achievement Award Committee, 2011.
31. Program Co-Chair: The 30th IEEE Conference on Computer Communications (INFOCOM), 2011.
32. Panel Co-Chair: The 29th IEEE Conference on Computer Communications (INFOCOM), 2010.

33. Program Co-Chair: International Conference on Distributed Computing and Networking (ICDCN) 2010.
34. General Co-Chair: The 6th IEEE/IFIP International Symposium on Trusted Computing and Communications (TrustCom), 2010.
35. Award Chair: The 5th International Conference on Networking Architecture and Storages (NAS), 2010.
36. General Co-Chair: The 3rd International Workshop on Sensor Networks (SN 2010), in conjunction with IEEE ICDCS, 2010.
37. General Co-Chair: International Conference on Distributed Computing in Sensor Systems (DCOSS), 2009.
38. General Chair: The 1st ACM International Workshop on Medical-grade Wireless Networks (WiMD 2009) (in conjunction with MobiHoc 2009), 2009.
39. Panel Co-Chair: ACM Annual International Conference on Mobile Computing and Networking (MobiCom), 2009.
40. Area TPC Chair: The 27th, 28th, 29th, 31st, 32th, and 33rd IEEE Conference on Computer Communications (INFOCOM), 2008, 2009, 2010, 2012, 2013, and 2014.
41. Area TPC Chair: The 8th and 11th Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON), 2011 and 2014.
42. General Chair: The 22nd IEEE International Parallel & Distributed Processing Symposium (IPDPS), 2008.
43. Executive Vice Program Chair: The 28th IEEE International Conference on Distributed Computing Systems (ICDCS), 2008.
44. Panel Co-Chairs: The 5th Annual IEEE Communications Society Conference on Sensor, Mesh and Ad hoc Communications and Networks (SECON), 2008.
45. General Co-Chair: International Conference on Wireless Algorithms, Systems and Applications (WASA), 2007.
46. General Co-Chair: The 5th International Symposium on Parallel and Distributed Processing and Applications (ISPA'07), 2007.
47. General Vice Chair: The 21st IEEE International Parallel & Distributed Processing Symposium (IPDPS), 2007.
48. Program Co-Chair: Symposium on Advances in Internet, ChinaCom, 2007.
49. General Chair: The 3rd IEEE International Conference on Mobile Ad-Hoc and Sensor Systems (MASS), 2006.
50. Program Co-Chair: International Workshop on Networking, Architecture, and Storage, 2006.



51. General Vice Chair: The 2nd IEEE International Conference on Distributed Computing Sensor Systems (DCOSS), 2006.
52. General Chair: International Workshop on Wireless and Sensor Networks Security (WSNS'05) (in conjunction with MASS), 2005.
53. Program Co-Chair: The 1st International Workshop on Security and Mobility in Peer-to-Peer Systems (MPPS) (in conjunction with ICDCS), 2005.
54. Program Co-Chair: The 1st International Workshop on Ad-Hoc, Sensor and P2P Networks (AHSP) (in conjunction with ISADS), 2005.
55. Program Co-Chair: International Conference on Mobile Ad-Hoc and Sensor Networks (MSN), 2005.
56. Program Vice Chair: International Conference on Computer Networks and Mobile Computing (ICCNMC), 2005.
57. Program Chair: The 1st IEEE International Conference on Mobile Ad-Hoc and Sensor Systems (MASS), 2004.
58. General Co-Chair: The 2nd International Workshop on Mobile Distributed Computing (MDS), 2004.
59. Workshops Chair: The IEEE International Conference on Distributed Computing Systems (ICDCS), 2003.
60. General Co-Chair: The 7th International Conference on Computer Science and Informatics (ICS), 2003.
61. Program Co-Chair: The 4th and 5th Workshops on Advances in Parallel and Distributed Computational Models (in conjunction with IPDPS), 2002 and 2003.
62. Program Vice Chair: The 21st IEEE International Conference on Distributed Computing Systems (ICDCS), 2001.
63. Program Co-Chair: Workshop on Wireless Networks and Mobile Computing 2001 (in conjunction with ICPP 2001), 2001.
64. Program Vice Chair: The 29th International Conference on Parallel Processing (ICPP), 2000.
65. Program Co-Chair: The 12th ISCA International Conference on Parallel and Distributed Computing Systems (PDCS), 1999.
66. Local Arrangements Chair: The 5th IEEE International Symposium on High Performance Computer Architecture (HPCA), 1999.
67. Advisory Committee: The 18th and 21st International Conference on Advanced Information Networking and Applications (AINA), 2004 and 2007.
68. Advisory Committee: The 13th and 14th ISCA International Conference on Parallel and Distributed Computing Systems (PDCS), 2000 and 2001.

69. Advisory Committee: The 20th, 21st, and 22nd IASTED International Conference on Parallel and Distributed Computing Systems, 1999, 2000, and 2001.
70. Steering Committee Chair: The 3rd and 4th National Workshop for REU Research in Networking and Systems, 2017 (Spring and Fall).
71. Steering committee member: Resilience Week, August, 2015, 2016, and 2017.
72. Steering Committee Chair: The IEEE International Workshop on Wireless Security and Privacy (WiSP).
73. Steering Committee: ACM Annual International Workshop on Mission-Oriented Wireless Sensor Networking (NISENET).
74. Steering Committee Chair: The IEEE International Workshop on Wireless and Sensor Networks Security (WSNS).
75. Steering Committee: The 1st and 2nd Workshop on Mission-Oriented Wireless Sensor Networking (MiSeNet).
76. Steering Committee: The IEEE International Parallel & Distributed Processing Symposium (IPDPS), 2008 and 2009.
77. Steering Committee: The 6th Workshop on Advances in Parallel and Distributed Computational Models (in conjunction with IPDPS).
78. Steering Committee: Workshop on Advances in Parallel and Distributed Computational Models (APDCM).
79. Steering Committee: International Symposium on Parallel and Distributed Processing and Application (ISPA).
80. Steering Committee: The IEEE International Conference on Mobile Ad-Hoc and Sensor Systems (MASS).
81. Steering Committee: The IEEE Symposium on Reliable Distributed Systems (SRDS).
82. Steering Committee: The IEEE International Parallel & Distributed Processing Symposium (IPDPS).
83. Steering Committee: The ACM Annual International Workshop on Mission-Oriented Wireless Sensor Networking (NISENET).
84. Steering Committee: The Workshop on the Internet of Things Applications.

#### **6.4 Conference Organization (program committee/session chair)**

1. TPC Member: IEEE Conference on Communications and Network Security (CNS), 2023.
2. TPC Member: IEEE/ACM International Symposium on Quality of Service (IWQoS), 2023.

3. Program Committee Member: The 10th IEEE Conference on Communications and Network Security (CNS), 2022.
4. Program Committee Member: The ACM Web. Conference (WWW'22), 2022.
5. General Co-Chair: International Conference of Distributed Computing and Networking (ICDCN), 2022.
6. Program Committee Member: The 2021 IEEE International Conference on Blockchain (Blockchain), 2021.
7. Program Committee Member: The 35th AAAI Conference on Artificial Intelligence (AAAI-21), 2021.
8. Program Committee Member: The 55th IEEE International Conference on Communications (ICC), 2021.
9. Program Committee Member: The 9th International Conference on Sensor Networks (SENSOR-NETS), 2021.
10. Program Committee Member: The 54th IEEE International Conference on Communications (ICC), 2020.
11. Program Committee Member: The 2020 IEEE International Conference on Blockchain (Blockchain), 2020.
12. Program Committee Member: The 8th IEEE Conference on Communications and Network Security (CNS), 2020.
13. Program Committee Member: The International Conference on Internet of Things and Intelligence System (IoTaIS), 2020.
14. Program Committee Member: The 1st Workshop on Energy Efficiency at the Edge (WEEE), 2020.
15. Program Committee Member: The 54th IEEE International Conference on Communications (ICC), 2020.
16. TPC Co-Chair: The 29th International Conference on Computer Communications and Networks (ICCCN), 2020.
17. Program Committee Member: The 8th International Conference on Sensor Networks (SENSOR-NETS), 2020
18. Program Committee Member: The 6th International Workshop on Mobile Applications (MobiApps), 2019.
19. Program Committee Member: The 2019 International Conference on Internet of Things and Intelligence System (IoTaIS), 2019.
20. The 15th International Conference on Mobile Systems and Pervasive Computing (MobiSPC), 2018 (Program Committee).

21. Program Committee: The 15th LACCEI International Multi-Conference for Engineering, Education, and Technology (LACCEI), 2017.
22. TPC member: The 36th, 37th, 39th, and 42nd IEEE International Conference on Distributed Computing Systems (ICDCS), 2016, 2017, 2019, and 2022.
23. TPC member: The 24th IEEE International Conference on Network Protocols (ICNP), 2016.
24. TPC member: The IEEE ICC SAC Symposium Social Networking Track (ICC), 2018.
25. TPC member: The International Conference on Internet of things and Cloud Computing (ICC), 2016.
26. TPC member: The 27th and 31st IEEE International Symposium on Reliable Distributed Systems (SRDS), 2008 and 2012.
27. TPC member: The 1st, 8th and 9th IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS), 2005, 2012, 2013 and 2015.
28. TPC member: The 30th Military Communications Conference (MILCOM), 2011.
29. TPC member: The 7th International Conference on Mobile Ad-hoc and Sensor Networks (MSN), 2011.
30. The 16th, 18th, 20th, 21st, 24th, 30th, 32nd, and 34th International Conference on Distributed Computing Systems (ICDCS), 1996, 1998, 2000, 2001, 2004, 2010, 2012, 2014, and 2015 (Program Committee).
31. The 15th, 16th, 17th, 18th, 19th, 20th and 21st IEEE International Conference on Network Protocols (ICNP), 2007, 2008, 2009, 2010, 2011, 2012 and 2013 (Program Committee).
32. The 5th, 6th and 10th Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON), 2008, 2009 and 2013 (Program Committee).
33. The 3rd and 4th NSF/TCPP Workshop on Parallel and Distributed Computing Education (EduPar), 2013 and 2014 (Program Committee).
34. The 3rd International Workshop on Delay/Disruption-Tolerant Mobile Networks (IEEE DTMN), 2008 (Program Committee).
35. The 9th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM), 2008 (Program Committee).
36. The 8th International Conference on Algorithms and Architectures for Parallel Processing (ICA3PP), June 2008 (Program Committee).
37. The 3rd and 4th IEEE International Workshop on Sensor Networks and Systems for Pervasive Computing (PerSeNS), 2007 and 2008.
38. The 2nd ACM Workshop on Sensor Actor Networks (SANET 2008), in conjunction with ACM MobiCom, 2008 (Program Committee).

39. The 1st ACM International Workshop on Integrated Heterogeneous Sensor Networks (HeterSenet), in conjunction with ACM MobiHoc, 2008 (Program Committee).
40. The ACM International Symposium on Mobile Ad-Hoc Networking and Computing (MobiHoc), 2006 and 2007 (Program Committee).
41. International Conference on Parallel Processing (ICPP), 2001, 2002, 2004, 2006, 2007 and 2010 (Program Committee).
42. International Conference on Mobile Ad-hoc Sensor Systems (MASS), 2007, 2008, 2009, 2010, 2011, 2012, 2013, and 2015(Program Committee).
43. The 5th Annual IEEE International Conference on Pervasive Computing and Communications (PerCom), 2007 (Program Committee).
44. The 2006 IEEE International Symposium on Modeling, Analysis, and Simulation of Computers and Telecommunication Systems (MASCOTS), 2006 (Program Committee).
45. The 1st ACM International Workshop on Performance Monitoring and Measurement of Heterogeneous Wireless and Wired Networks (PM2HW2H'2006), 2006 (Program Committee).
46. International Workshop on Networking, Architecture, and Storage, 2006 (Session Chair).
47. The 2nd International Conference on Mobile Ad-hoc Sensor Systems (MASS), 2005 (Session Chair).
48. The IEEE International Parallel and Distributed Processing Symposium (IPDPS), 2005 (Program Committee).
49. The 24th Annual Joint Conference of the IEEE Computer and Communications (INFOCOM), 2005 (Program Committee).
50. The 61st IEEE Vehicular Technology Conference (VTC), 2005 (Program Committee).
51. The 12th Annual International Conference on High Performance Computing (HiPC), 2005 (Program Committee).
52. International Conference on Parallel Processing (ICPP), 2000, 2001, 2002 and 2005 (Session Chair).
53. The IEEE 23rd and 25th International Conference on Distributed Systems Conference (ICDCS), 2003 and 2005(Session Chair).
54. The 1st International Workshop on Sensor Networks and Systems for Pervasive Computing (PerSeNS), 2005 (Program Committee).
55. The 1st IEEE Symposium on World of Wireless, Mobile and Multimedia Networks (WoWMoM), 2005 (Program Committee).
56. The 19th IEEE International Conference on Advanced Information Networking and Applications (AINA), 2005 (Program Committee).
57. International Workshop on Mobile Distributed Computing (MDC), 2005 (Program Committee).

58. The 1st International Workshop on System and Networking for Smart Objects (SaNSO), 2005 (Program Committee).
59. International Workshop of Ubiquitous Smart Worlds (USW), 2005 (Program Committee).
60. The 11th International Conference on Parallel and Distributed Systems (ICPADS), 2005 (Program Committee).
61. The 4th International Workshop Performance Modeling, Evaluation, and Optimization of Parallel and Distributed Systems, 2005 (Program Committee).
62. The 5th IEEE Workshop on Algorithms for Wireless, Mobile, Ad Hoc and Sensor Networks, 2005 (Program Committee).
63. The 2nd International Workshop on Wireless Ad Hoc Networking (WWAN), 2005 (Program Committee).
64. The IEEE International Workshop on Strategies for Energy Efficiency in Ad Hoc and Sensor Networks (IWSEEASN), 2005 (Program Committee).
65. International Workshop on Information Fusion and Dissemination in Wireless Sensor Networks, 2005 (Program Committee).
66. The Aizu Workshop on Peer-to-Peer Workshops, March 2004 (Guest Speaker).
67. The HKUST Workshop on Network Research, 2004 (Guest Speaker).
68. International Conference on Parallel and Distributed Processing and Applications (ISPA), 2004 (Session Chair).
69. International Conference on High Performance Computing and Applications (HPCA), 2004 (Session Chair).
70. The 1st International Conference on Embedded Software and Systems (ICCESS), 2004 (Program Committee).
71. The 2004 International Conference on Embedded and Ubiquitous Computing (EUC), 2004 (Program Committee).
72. Euro-Par, 2004 (Program Committee).
73. The 23rd Annual Joint Conference of the IEEE Computer and Communications (INFOCOM), 2004 (Program Committee).
74. The IEEE Global Telecommunications Conference (GLOBECOM), 2004 (Program Committee).
75. International Conference on Parallel and Distributed Computing and Networks (PDCN), 2004 (Program Committee).
76. The 17th International Conference on Parallel and Distributed Computing Systems (PDCS), 2004 (Program Committee).

77. International Workshop on Wireless Ad hoc Networking (WWAN), 2004 (Program Committee).
78. The 2nd International Workshop on Mobile Distributed Computing (MDC), 2004 (Program Committee).
79. The 4th International Workshop on Algorithms for Wireless, Mobile, Ad Hoc and Sensor Networks (WMAN), 2004 (Program Committee).
80. International Workshop on Performance Modeling, Evaluation, and Optimization of Parallel and Distributed Systems (PME)(PDS), 2004 (Program Committee).
81. The Chinese NSF Workshop on Advance in Computer Science, 2003 (Guest Speaker).
82. The 2nd International Workshop on Grid and Cooperative Computing (GCC 2003), 2003 (Session Chair).
83. The 10th Annual International Symposium on High Performance Computing (HPCA), 2003 (Program Committee).
84. The 2003 High Performance and Large Scale Computing Conference, 2003 (Program Committee).
85. The 2003 International Workshop on Mobile Distributed Computing, 2003 (Program Committee).
86. The 3rd International Workshop on Internet Computing and E-Commerce, 2003 (Program Committee).
87. Workshop on Advances in Parallel and Distributed Computational Models, 2003 (Session Chair).
88. Workshop on Massive Parallel Processing, 2003 (Session Chair).
89. The 3rd International Conference on Communications and Computing, 2002 (Program Committee).
90. The 2002 International Conference on Parallel and Distributed Systems (ICPADS), 2002 (Program Committee).
91. The IASTED International Conference on Networks, Parallel and Distributed Processing and Applications, 2002 (Program Committee).
92. The 4th International Conference on Formal Engineering Methods, 2002 (Program Committee).
93. Workshop on Wireless Networks and Mobile Computing, 2001 (Session Chair).
94. The 14th ISCA International Conference on Parallel and Distributed Computing Systems (PDCS), 2001 (Session Chair).
95. The 14th ISCA International Conference on Parallel and Distributed Computing Systems (PDCS), 2001 (Program Committee).
96. The 2nd International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT), 2001 (Program Committee).

97. The 2001 International Conference on Parallel and Distributed Systems (ICPADS), 2001 (Program Committee).
98. The 1st International Workshop on Parallel and Distributed Computing Issues in Wireless Networks and Mobile Computing (in conjunction with IPDPS 2001), 2001 (Program Committee).
99. The 3rd Workshop on High Performance Scientific and Engineering Computing with Application (HPSECA-01) (in conjunction with ICPP), 2001 (Program Committee).
100. Workshop on Advances in Parallel and Distributed Computational Models (in conjunction with IPDPS), 2001 (Program Committee).
101. The 13th ISCA International Conference on Parallel and Distributed Computing Systems (PDCS), 2000 (Program Committee).
102. The 4th International Conference on Algorithms and Architectures for Parallel Processing, 2000 (Program Committee).
103. The 4th International Conference on Algorithms and Architectures for Parallel Processing, 2000 (Session Chairman).
104. The 1st International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT), 2000 (Program Committee).
105. The 2000 International Conference on Parallel and Distributed Systems (ICPADS), 2000 (Program Committee).
106. The 31st Southeastern Conference on Combinatorics, Graph Theory and Computing, 2000 (Session Chairman).
107. The 4th International Conference on Algorithms and Architectures for Parallel Processing, 2000 (Session Chair).
108. The 5th International Symposium on High Performance Computer Architecture (HPCA), 1999 (Local Arrangements Chairman).
109. The 12th ISCA International Conference on Parallel and Distributed Computing Systems (PDCS), 1999 (Program Chairman).
110. International Conference on Parallel Processing (ICPP), 1999 (Program Member).
111. International Conference on Computer Applications in Industry and Engineering, 1999 (Program Member).
112. The 14th ISCA International Conference on Computers and Their Applications, 1999 (Program Member).
113. The 30 Southeastern Conference on Combinatorics, Graph Theory and Computing, 1999 (Session Chairman).
114. The 5th International Conference for Young Computer Scientists, 1999 (Program Member).



115. The 29th Southeastern Conference on Combinatorics, Graph Theory and Computing, 1998 (Session Chairman).
116. The 1998 International Conference on Parallel and Distributed Computing and Networks, 1998 (Session Chairman).
117. The 13th International Conference on Computers and Their Applications, 1998 (Program Committee).
118. The Annual IEEE Workshop on Fault-Tolerant Parallel and Distributed Systems, 1998 (Program Committee).
119. The 10th ISCA International Conference on Parallel and Distributed Computing Systems, 1997 (Session Chairman).
120. The 28th Southeastern Conference on Combinatorics, Graph Theory and Computing, 1997 (Session Chairman).
121. The 9th ISCA International Conference on Computer Application in Industry and Engineering, 1996 (Program Committee).
122. The 9th ISCA International Conference on Computer Application in Industry and Engineering, 1996 (Session Chairman).
123. The 8th International Conference on Parallel and Distributed Computing and Systems, 1996 (Program Committee).
124. The 27th Southeastern Conference on Combinatorics, Graph Theory and Computing, 1996 (Session Chairman).
125. The 1996 International Workshop on Computer-Aided Design, Test, and Evaluation for Dependability, 1996 (Program Committee).
126. The 16th International Conference on Distributed Computing Systems (ICDCS), 1996 (Session Chairman).
127. The 26th Southeastern Conference on Combinatorics, Graph Theory and Computing, 1995 (Session Chairman).
128. The 4th International Conference on Computer Communications and Networks, 1995 (Program Committee).
129. The 7th International Conference on Parallel and Distributed Computing Systems, 1994 (Session Chairman).
130. International Conference on Parallel Processing (ICPP), 1994 (Session Chairman).
131. The IEEE Southeastcon'94, 1994 (Session Organizer and Chairman)
132. The 25th Southeastern Conference on Combinatorics, Graph Theory and Computing, 1994 (Session Chairman).

133. The 3rd International Conference for Young Computer Scientist, 1993 (Program Committee).
134. The 3rd International Conference for Young Computer Scientist, 1993 (Session Chairman).
135. The 24th Southeastern Conference on Combinatorics, Graph Theory and Computing, 1993 (Session Chairman).
136. The 23rd Southeastern Conference on Combinatorics, Graph Theory and Computing, 1992 (Session Chairman).
137. The 23rd Pittsburgh Modeling and Simulation Conference, 1992 (Session Organizer and Chairman).
138. The IEEE Southeastcon '91, 1991, (Session Organizer and Chairman).
139. The 3rd ISMM International Conference on Parallel and Distributed Computing and System, 1990 (Session Chairman).
140. 1989 ACM Southeast Regional Conference, 1989 (Program Committee).

## **6.5 NSF-related Activities**

1. 2013 NSF CAREER Proposal Writing Workshop, March 15, 2013.
2. Organizer of NSF Wireless Networks PI meeting, Chicago, July 2007.
3. Organizer of NSF Workshops
  - Wireless Security, April 2008.
  - Mobility in Wireless Networks: Challenges and Opportunities, July 2007.
  - Bridging the Gap: Wireless Networking Technologies and Advances at the Physical Layer, August 2007.
  - Participant of NSF Future Internet Architecture Summit, Nov. 2009.
  - Participant of TCPP/NSF Curriculum Standards on Parallel & Distributed Computing, Jan. 2010.
4. Outreach/Site Visit (01/2007 - 12/2008)
  - Univ. of California at Los Angeles, Northeastern Univ., MIT, Harvard, George Washington Univ., Rutgers Univ., Univ. of California at Riverside, Univ. of Southern California, Indiana Univ. - Purdue Univ. Indianapolis, George Mason Univ., Univ. of Delaware, Univ. of Texas at Arlington, Stanford, and Univ. of California at Berkeley.

## 6.6 Professional Referee Service

### Proposals:

National Science Foundation: China, Cyprus, Taiwan, Israel, and United States.

Universities: City University of Hong Kong and Hong Kong Polytechnic University.

### Tenure/Promotion Reviews:

Georgia State University, Miami University, Shenzhen Institute of Advanced Technology, City University of Hong Kong, North Carolina State University, Virginia Commonwealth University, University of Notre Dame, University of Pittsburgh, Tsinghua University, University of Science and Technology of China, Wayne State University, Arizona State University, Rutgers University, University of Macau, University of Connecticut, University of Massachusetts Lowell, Shanghai Jiaotong University, Hong Kong Polytechnical University, City University of Hong Kong, Texas Tech University, Stevens Institute of Technology, Virginia Tech, University of Louisiana at Lafayette, and New Jersey Institute of Technology

### Journal Papers:

IEEE Computer

IEEE Software

IEEE Parallel and Distributed Technology

IEEE Transactions on Software Engineering

IEEE Transactions on Computers

IEEE Transactions on Parallel and Distributed Systems

IEEE Transactions on Mobile Computing

ACM Transactions on Knowledge and Data Engineering

ACM Transactions on Computer Systems

ACM Computing Reviews

The Computer Journal

Distributed Computing

Discrete Applied Mathematics

Computer Networks and ISDN Systems

International Journal of Mini and Micro Computers

International Journal of Parallel and Distributed Systems and Networks

International Journal of Computers and Their Applications

International Journal of Modeling and Simulation

Journal of Parallel and Distributed Computing

Journal of Systems and Software

Information Sciences: An International Journal

Computer System's Science and Engineering

Concurrency – Practice and Experience

Software – Practice and Experience

Journal of Information Resources Management

International Journal of Applied Intelligence

**Conferences:**

ACM International Symposium on Mobile Ad-Hoc Networking and Computing (MobiHoc)  
International Conference of the IEEE Computer and Communications (INFOCOM)  
IEEE Global Telecommunications Conference (GLOBECOM)  
IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)  
IEEE International Conference on Communications (ICC)  
IEEE Semiannual Vehicular Technology Conference (VTC)  
IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS)  
International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM)  
The 21st IEEE International Conference on Distributed Computing Systems  
2001 International Conference on Parallel Processing  
IASTED International Conference on Parallel and Distributed Computing Systems  
2001 Workshop on Advances in Parallel and Distributed Computational Models  
The 14th ISCA International Conference on Parallel and Distributed Systems  
Workshop on Wireless Networks and Mobile Computing (in conjunction with ICPP 2001)  
The 3rd Workshop on High Performance Scientific and Engineering Computing with Application (HPSECA-01) (in conjunction with ICPP 2001)  
The 4th International Conference on Algorithms and Architectures for Parallel Processing  
The 2nd International Conference on Parallel and Distributed Computing, Applications and Technologies  
The 1st International Workshop on Parallel and Distributed Computing Issues in Wireless Networks and Mobile Computing (in conjunction with IPDPS 2001)  
The 13th ISCA International Conference on Parallel and Distributed Computing Systems  
The First International Conference on Parallel and Distributed Computing, Applications and Technologies  
2000 Proc. of International Parallel and Distributed Processing Symposium  
2000 International Conference on Parallel Processing  
The 29th International Symposium on Fault-Tolerant Computing (FTCS-29)  
1999 International Conference on Parallel Processing  
1999 ISCA International Conference on Parallel and Distributed Computing Systems  
The 5th IEEE International Symposium on High-Performance Computer Architecture  
1998 International Conference on Parallel and Distributed Computing and Networks  
1998 International Conference on Distributed Computing Systems  
1998 International Parallel Processing Symposium and International Symposium on Parallel and Distributed Processing  
1997 ISCA International Conference on Parallel and Distributed Computing Systems  
1997 IASTED International Conference on Parallel and Distributed Computing and Systems  
1997 ISCA International Conference on Computer Applications in Industry and Engineering  
1997 International Conference on Parallel Processing  
1997 International Parallel and Processing Symposium

The 7th International Symposium on Parallel and Distributed Processing  
 1996 IASTED International Conference on Parallel and Distributed Computing and Systems  
 1996 International Conference on Distributed Systems  
 1996 International Workshop on Computer-Aided Design, Test, and Evaluation for Dependability  
 The 3rd International Conference for Young Computer Scientists  
 1996 International Conference on Parallel Processing  
 The 6th International Symposium on Parallel and Distributed Processing  
 1995 International Conference on Parallel Processing  
 1994 International Conference on Parallel Processing  
 1993 International Conference on Parallel Processing  
 The 25th International Symposium on Fault-Tolerant Computing (FTCS-25)  
 The 23rd International Symposium on Fault-Tolerant Computing (FTCS-23)  
 The 11th Symposium on Reliable Distributed System (SRDS-11)  
 The 12th Symposium on Reliable Distributed System (SRDS-12)  
 1992 International Parallel Processing Symposium  
 1991 International Conference on Parallel Processing  
 The 3rd IEEE Symposium on Parallel and Distributed Systems  
 1990 PARBASE  
 The 5th IFIP WG 11.3 Working Conference on Database Security  
 Hawaii International Conference on System Science (HICSS-27)  
 The 13th International Computer Software and Applications Conference (COMPSAC '89)  
 The 5th ISMM Conference on Parallel and Distributed Computing Systems.

**Published Reviews of Books and Articles:**

“Designing Tree-Based Barrier Synchronization on 2D Mesh Networks,” by J. -S. Yang and C. -T. King, *Computing Reviews*, Vol. 40, No. 2, February 1999, 115-116.

“Hierarchical Interconnection Structure for Field Programmable Gate Arrays,” by Y. -T. Lai and P. -T. Wang, *Computing Reviews*, Vol. 39, No. 2, February 1998, 113.

“A Hybrid Distributed Mutual Exclusion Algorithm” by Y-I Chang, *Computing Reviews*, Vol. 38, No. 10, October 1997, 506.

“A Bounded First-in, First-Enabled Solution to the l-exclusion Problem” by A. Yehuda et al, *Computing Reviews*, Vol. 36, No. 10, October 1995, 531.

“Network Programming in C” by N. Barry, *Computing Reviews*, Vol. 32, No. 10, 1991, 490-491.

“Dependability of Resilient Computers” by T. Anderson, *IEEE Computer*, Vol. 23, No. 8, 1990, 126.

## 6.7 IEEE Computer and Communication Societies

- Chair: IEEE Technical Committee on Distributed Processing (12/2005-12/2012)
- Secretary and Treasurer: IEEE Technical Committee on Distributed Processing (08/1999-12/2005)
- Chair: IEEE Computer Society, Philadelphia Chapter (05/2013 - 05/2017)
- IEEE Computer Society Fellow Evaluation Committee (2009, 2010, 2014, 2016)
- IEEE Communication Society Award Committee (09/2016 - present)
- CCF-IEEE CS Young Computer Scientist Award Committee (09/2020 - present)

## 6.8 Local Community Service

- The 5th Annual Statewide Florida SECME Olympiad (1990)
- Florida PE preparation classes (1990)

## 6.9 University Service

### **Task Force, Temple University**

Online Education (09/2012-12/2012)

Freeh Report (09/2012-12/2012)

International Campus (Chair, 01/2016-05/2016)

### **Dept. of Computer & Information Sciences, Temple University**

Faculty Search Committee (Chair, 2022-2023, member, 2018-2019)

P&T Committee (Chair, 2019-present)

Dept. Planning Committee (Chair, 2018-present)

### **Dept. of Computer Science and Engineering, Florida Atlantic University**

Department Personnel Committee (09/2000-12/2006)

Graduate and Research Committee (09/1993-09/1995, 09/1997-12/2006)

Advisor of CE Graduate Students (09/1994-present)

TA/GA Committee (09/1991-09/1997; Chair, 09/2002-12/2006)

Director of CSE Graduate Programs (09/1997-09/2002)

Executive Committee (09/1997-09/2002)

IEEE Student Advisor (09/1995-09/2001)

Research Committee (Chair, 09/1996-09/1997)

ACM Student Advisor (09/1994-09/1995)

Laboratory and Equipment Committee (09/1992-09/1993)

Coordinator of Computer Engineer Ph.D Qualifying Examination (02/1991-09/1992)

**College of Engineering, Florida Atlantic University**

College Personnel Committee (09/2001-12/2006, chair: 11/2005-12/2006)

Graduate Studies (09/1993-09/1994)

Math Liaison (09/1990-09/1991)

**Florida Atlantic University**

University Tenure and Promotion Committee (11/2005-12/2006)

## **7 Instructional Experience**

### **7.1 Graduate Level Courses (13 courses, including 8 new courses)**

1. Design and Analysis of Algorithms – Temple University
2. Fault-Tolerant System Design – Florida Atlantic University
3. Concurrent Processing – Florida Atlantic University
4. Analysis of Algorithms – Florida Atlantic University
5. Ad Hoc Networks – Florida Atlantic University (new course) and Temple University
6. Distributed Algorithms – Florida Atlantic University (new course)
7. Internet Routing Protocols – Florida Atlantic University (new course)
8. Design and Analysis of Parallel Algorithms – Florida Atlantic University (new course)
9. Distributed System Design – Florida Atlantic University (new course) and Temple University
10. Formal Specification Methods – Florida Atlantic University (new course)
11. Introduction to Parallel Computers – Florida Atlantic University (new course)
12. Real-Time Software – Florida Atlantic University (new course)
13. Design and Analysis of Algorithms – Temple University

### **7.2 Undergraduate Level Courses (14)**

1. Cooperative Education in CS – Temple University
2. Cooperative Education in IS&T – Temple University
3. Design and Analysis of Algorithms – Florida Atlantic University
4. Data Structure and Algorithm Design Using C – Florida Atlantic University

5. Introduction to Computers – Florida Atlantic University
6. Data Structure and Algorithm Design Using C++ – Florida Atlantic University
7. Introduction to Logic Design – Florida Atlantic University
8. Structured Computer Architecture – Florida Atlantic University
9. Switching Systems – Florida Atlantic University
10. Senior Project – Florida Atlantic University
11. Senior Seminar – Florida Atlantic University
12. Engineering Design II – Florida Atlantic University
13. Programming Language Pascal – Shanghai University of Science and Technology
14. Programming Methodologies – Shanghai University of Science and Technology

### **7.3 Memtorship**

#### **7.3.1 Postdoctoral Associates (3)**

1. Md Zakirul Alam Bhuiyan, Central South University, China, 05/2015-08/2016  
(Currently Assistant Professor, Fordham University)
2. Shaojie Tang, Illinois Institute of Technology, 12/2012-07/2014  
(Currently Associate Professor, University of Texas at Dallas)
3. Chiu C. Tan, The College of William & Mary, 09/2010-06/2012  
(Currently Associate Professor, Temple University)

#### **7.3.2 Ph.D. Dissertations (31 completed and 3 in progress)**

1. Yubing Duan, “Accelerating DNN Inference and Training in Distributed Systems,” (Summer 2022).  
Software Engineering, Facebook
2. Suhan Jiang, “Theoretical Discussions on Blockchain-based Systems: Design, Extension, and Application,” (Spring 2022).  
Software Engineering, Facebook
3. Rajorshi Biswas, “Mitigation of Different Network Attacks and Optimization in Software Defined Network,” (Summer 2021).



- (Assistant Professor, Penn State University Berks)
4. Yang Chen, “Resource Scheduling in Software-Defined Networks,” (Summer 2020).  
(Software Engineer, Facebook Inc.)
  5. Jiacheng Shang, “Non-intrusive Sensing in Wireless Environment,” (Summer 2020).  
(Assistant Professor, Montclair State University)
  6. Ning Wang, “Efficient Routing and Offloading Design in Internet-of-Things Systems,” (Summer 2018)  
(Assistant Professor, Rowan University)
  7. Huiyang Zheng, “Social Network Architectures and Applications,” (Winter of 2017).  
(Software Engineer, Google Inc.)
  8. Dawei Li, “On the Design and Analysis of Cloud Data Center Network Architectures,” (Winter 2016)  
(Assistant Professor, Montclair State University)
  9. Wei Chang, “Security and Privacy Issues in Social Information-Assisted Application Design,” (Summer 2016)  
(Assistant Professor, Saint Joseph’s University)
  10. Pouya Ostovari, “Priority-Based Data Transmission in Wireless Networks using Network Coding,” (Winter 2015).  
(Assistant Professor, San Jose State University)
  11. Ying Dai, “Spectrum Management and Cross-layer Protocol Design in Cognitive Radio Networks,” (Winter 2014).  
(Software Engineer, LinkedIn Inc.)
  12. Wenjun Jiang, “Researches on Personalized Trust Evaluation in Online Social Networks,” (Co-adviser, Summer 2014).  
(Associate Professor, Hunan University, China)
  13. Yunsheng Wang, “Social Feature based Routing in Delay Tolerant Networks,” (Summer 2013).  
(Associate Professor, Kettering University)
  14. Qin Liu, “Security in Cloud Computing with Multi-User Data Sharing,” (Co-adviser, Winter 2012).  
(Associate Professor, Hunan University, P. R. China)
  15. Yaxiong Zhao, “Efficient Content-Based Publish/Subscribe Systems for Dynamic and Large-Scale Networked Applications,” (Summer 2012)

- (Software Engineer, Google Inc.)
16. Cong Liu, "Design and Implementation of Efficient Routing Protocols in Delay Tolerant Networks," (Summer 2009)  
(Associate Professor, Sun Yat-sen University, P. R. China)
  17. Feng Li, "Uncertainty-aware Reputation System in Mobile Networks: Analysis and Applications," (Summer 2009)  
(Chair and Fall Professor at Indiana University-Purdue University Indianapolis, Indiana)
  18. Avinash Srinivasan, "Secured Broadcasting in Mobile Ad-Hoc Networks," (Summer 2008).  
(Associate Professor at Temple University, Philadelphia)
  19. Mingming Lu, "Incentive Mechanisms in Mobile Ad-Hoc Networks," (Summer 2008)  
(Associate Professor at Central South China University, P. R. China)
  20. Shuhui Yang, "Connected Dominating Set (CDS) in Wireless Ad Hoc Networks: Variations with Applications," (Fall 2007).  
(Full Professor at Purdue University Northwest, Indiana)
  21. Bing Wu, "Key Management in Secured Ad-Hoc Networks," (Fall 2006).  
(Full Professor at Fayetteville State University, North Carolina)
  22. Xiuqi Li, "Efficient Searching in Unstructured Peer-to-Peer Networks," (Fall 2006).  
(Associate Professor at Temple University, Philadelphia)
  23. Imad Jawhar, "Quality of Service Support in TDMA-Based Mobile Ad-Hoc Networks," (Summer 2005).  
(Chair and Full Professor at Al Maaref University, Lebanon)
  24. Fei Dai, "Localized Broadcasting in Ad-Hoc Wireless Networks," (Summer 2005).  
(Senior SOE, Microsoft Corp.)
  25. Wei Lou, "Broadcasting in Ad-Hoc Wireless Networks," (Summer 2004).  
(Associate Professor at Hong Kong Polytechnic University, Hong Kong)
  26. Zhen Jiang, "Fault-Tolerant Routing in Mesh-Connected Networks with Dynamic Faults," (Summer 2002).  
(Full Professor at West Chester University, Pennsylvania)
  27. Xiao Chen, "Fault-Tolerant Routing in 2-D and 3-D Meshes," (Summer 1999).

(Associate Professor at Texas State University, Texas)

28. P. Goyal, “Cube-Connected-Cubes Multicomputers,” (Fall 1998).
29. Ke Huang, “The Balanced Hypercube and Its Applications,” (Summer 1997).
30. Yijun Wang, “A Uniform Hardware and Software Fault-Tolerant Model,” (Fall 1995).
31. Larry Brown, “Fault-Tolerant Distributed Shared Memories,” (Fall 1993).
32. Nadia Niknami, “Security Enhancement in SDN Networks,” (in progress).
33. Abdalaziz Sawwan, “Extended Multi-Armed Bandits,” (in progress).
34. Yusuf Qwareeq, “Elastic Scheduling for Data Center Networks,” (in progress).

### **7.3.3 Visiting Professors/Scholars (17)**

1. En Wang, Jilin University, China, 07/2018-07/2019.
2. Hongliang Li, Jilin University, China, 08/2016-08/2017.
3. Jie Wang, Central South University, China, 11/2015-11/2016.
4. Chao Wang, Shanghai University, China, 09/2015-09/2016.
5. Gang Wang, Behang University, China, 03/2015-03/2016.
6. Peng Liu, Hangzhou Dianzi University, China 02/2014-08/2015.
7. Qi Wang, Hefei University of Technology, China, 09/2014-10/2015.
8. Hong Yao, China University of Geosciences, China, 01/2014-01/2015.
9. Jianjiang Li, University of Science and Technology Beijing, China, 01/2014-01/2015.
10. Yang Wang, Shanghai University, China, 04/2013 - 03/2014.
11. Chao Song, Chinese University of Electrical and Electronics, China, 01/2013-01/2014.
12. Huijuan Lu, Chinese Jiliang University, China, 06/2012-10/2012.
13. Minjun Xiao, Chinese University of Science and Technology, China, 10/2011-10/2012.
14. Yun Chen, Hunan University of Humanities Science and Technology, China, 05/2010-05/2011.
15. Yingchi Mao, Hohai University, China, 10/2010-09/2011.
16. Guojun Wang, Central South University, China, 01/2009-01/2010.
17. Guanhuai Guo, Shanghai University of Science and Technology, China, 1985-1996.

#### **7.3.4 Visiting PhD Students (14)**

1. Guoju Gao, University of Science and Technology, China, 01/2019-01/2020.
2. Juan Li, Shanghai Jiaotong University, China, 10/2017-10/2018.
3. Xiaoyu Zhu, Central South University, China, 08/2017-08/2018.
4. Shuaibing Lu, Jilin University, China, 09/2016-09/2018.
5. Zhi Ma, Nanjing University, China, 03/2017-08/2017.
6. Longhua Guo, Shanghai Jiaotong University, China, 09/2016-09/2017.
7. Biyu Zhou, University of Chinese Academic of Sciences, 09/2016-09/2017.
8. Jiaqi Zheng, Nanjing University, China, 10/2015-10/2016.
9. En Wang, Jilin University, China, 09/2014-07/2015.
10. Xiulong Liu, Dalian Institute of Technology, China 09/2014-08/2015.
11. Wei Zhang, Hunan University, China, 08/2014-08/2015.
12. Xin Li, Nanjing University, China, 09/2012-09/2013.
13. Wenjun Jiang, Central South University, China, 03/2012-03/2014.
14. Sheng Zhang, Nanjing University, China, 09/2011-09/2012.
15. Yanzhao Zhao, Nanjing University, China, 08/2010-10/2011.
16. Qin Liu, Central South University, China, 09/2010-09/2012

#### **7.3.5 MS Theses (36 completed)**

1. G. Burduli, "Game Program Design Using Reinforcement Learning," (Spring 2022).
2. Z. Wan, "Scheduling Policies for Cloud Computing," (Summer 2015).
3. A. Blaisse, "Better Selection of Virtual Machines for A Mapreduce Environment," (Summer 2015).
4. K. Li, "Resource Allocation Schemes in Cloud Systems," (Summer 2014).
5. X. Li, "Channel Switching Control Policy for Wireless Mesh Networks," (Summer 2012).
6. R. Thanawala, "Efficient Resource Discovery Technique in a Mobile Ad Hoc Network," (Fall 2008).
7. V. Ponce, "Improving Cooperation in P2P Networks: A Social Network Approach," (Fall 2007).
8. B. Qian, "Multi-Path Intelligent Virtual Mobile Nodes for Ad Hoc Networks," (Fall 2007).

9. T. Anantvalee, "Reputation-Based System for Encouraging the Cooperation of Nodes in Mobile Ad Hoc Networks," (Fall 2006).
10. J. Huang, "A Class-Based Search System in Unstructured Peer-to-Peer Networks," (Summer 2006).
11. T. Xu, "Quorum-Based IP Address Autoconfiguration in Mobile Ad Hoc Networks," (Summer 2006).
12. Y. Wang, "Label Routing Protocol: A New Cross-Layer Protocol for Multi-Hop Ad Hoc Wireless Networks," (Spring 2006).
13. J. Zhang, "XYZ: A Scalable, Partially Centralized Lookup Service for Large-Scale Peer-to-Peer Systems," (Summer 2005).
14. Q. Cheng, "Using Classification and Regression Tree to Detect Hematology Abnormalities," (Fall 2004).
15. J. Wood, "Active Networking and Innovation: An Evaluation of Active Networking as a Driver of Accelerated Internet Innovation," (Summer 2004).
16. C. Huang, "Enhanced Ticket-Based QoS Routing Protocols in Ad Hoc Networks," (Fall 2003).
17. Q. Dai, "Energy Efficient Routing in Ad Hoc Wireless Networks," (Summer 2003).
18. R. Khumanthem, "Mobile Agent and Its Application in Distributed Systems," (Summer 2003).
19. B. Wu, "Power-Aware Broadcasting and Activity Scheduling in Ad Hoc Wireless Networks Using Connected Dominating Sets," (Fall 2002).
20. K. Du, "Data Dissemination in Sensor Networks," (Summer 2002).
21. M. Gao, "Dominating-Set-Based Routing in Ad Hoc Wireless Networks," (Spring 2001).
22. J. Ibriq, "A Reduced Overhead Routing Protocol for Ad Hoc Wireless Networks," (Fall 2000).
23. H. Li, "Routing in Mobile Ad-Hoc Wireless Networks," (Fall 1999).
24. S. Cang, "Time-Step Optimal Broadcasting in Mesh Networks with Minimum Total Communication Distance," (Spring 1999).
25. H. Fu, "Load Balance of a Fire Model in a Network of Workstations," (Fall 1998).
26. H. Huang, "Parallel Algorithms for Domain Load Balance," (Fall 1997).
27. A. C. Wynn, "The Effect of Compression on Performance in a Demand Paging Operating System," (Summer 1997).
28. Y. Luo, "Embedding Binomial Trees in Faulty Hypercube Multiprocessors," (Fall 1996).
29. J. Pan, "Static and Dynamic Load Balance Strategies for a Class of Applications," (Summer 1996).
30. H. Qian, "Multitriangle: A New Interconnection Network," (Summer 1995).

31. W. Huang, "Stewart Platform Accuracy Enhancement," (Summer 1995).
32. H. More, "Load Balancing on Multiprocessor Systems," (Summer 1993).
33. K. Yao, "Fault-Tolerant Multicasting in Hypercube Multicomputers," (Spring 1993).
34. M. H. Fernandez, "Group Structures in Object-Oriented Database Authorization," (Fall 1992).
35. M. Gangadhar, "Fault-Tolerant Scheduling for Multiprocessor Systems," (Summer 1992).
36. M. Zhang, "Design and Modeling of Hybrid Software Fault-Tolerant Systems," (Spring 1992).

## 8 Professional Recognition

- CST Distinguished Research Award, Temple University, 2021.
- CST Distinguished Mentoring Award, Temple University, 2020.
- Outstanding Service Award: IEEE Technical Committee on Distributed Processing (TCDP), 2018.
- ACM Distinguished Lecturer, 7/2009 - 7/2013.
- CCF Distinguished Lecturer, 7/2013 - present.
- EMC-Endowed Visiting Chair Professor, Department of Computer Science, Tsinghua University, China, 2009-2011.
- IV-Endowed Visiting Chair Professor, National Lab for Information Science and Technology, Tsinghua University, China, 2011-2014.
- IEEE Computer Society Fellow Evaluation Committee Member, 2008-2009 and 2009-2010.
- Outstanding Overseas Achievement Award, China Computer Federation (CCF), China, 2011.
- Outstanding Overseas Young Researcher Award, National Natural Science Foundation of China (NSFC), China, 2006.
- Fulbright Senior Specialist, Council for International Exchange of Scholars, 12/2006-12/2011.
- University Researcher of the Year Award at the Rank of Professor: Florida Atlantic University, 2006-2007.
- International Advisory Board: School of Electronics, Information and Electrical Engineering (SEIEE), Shanghai Jiaotong University, Shanghai, China, 2002 - 2005.
- Guest Professor: Shanghai Jiaotong University, Shanghai, China
- AP Professor: Shenzhen Institutes of Advanced Technology, Chinese Academic of Sciences
- Guest Professor: National University of Defense Technology, Changsa, China.

- Guest Professor: Central South University, Changsa, China.
- Guest Professor: Shanghai University, Shanghai, China.
- Concurrent Professor: Nanjing University, Nanjing, China.
- IEEE Computer Society and ICDCS'03 Outstanding Service Award, May 2003.
- University Researcher of the Year Award at the Rank of Professor: Florida Atlantic University, 2001-2002.
- IEEE Distinguished Visitor: Computer Society, September 1998 - August 2001.
- Member of US delegation: Sino-American Technology and Engineering Conference, 1999.
- Outstanding Achievements Award: International Association of Science and Technology for Development (IASTED), 1998.
- University Researcher of the Year Award at the Rank of Associate Professor: Florida Atlantic University, 1996-1997.
- Marquis Who's Who in Science and Engineering.
- Who's Who in Asian American.