

# Jie Wu

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## 1 Employment History

- Director of the Center for Networked Computing, 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 Research 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, 8/89
- M.S. in Computer Science, Shanghai University of Science and Technology (now Shanghai University), Shanghai, P. R. of China, 7/85
- B.S. in Computer Engineering, Shanghai University of Science and Technology, Shanghai, P. R. of China, 7/82

## 4 Scholarly Achievements

### 4.1 Refereed Journals

(selected from 516 journal and 2 magazine publications)

1. Q. Liu, Y. Peng, M. Xu, H. Jiang, J. Wu, T. Wang, T. Peng, and G. Wang “MPV: Enabling Fine-Grained Query Authentication in Hybrid-Storage Blockchain,” accepted to appear in *IEEE Transactions on Knowledge and Data Engineering (TKDE)*.
2. X. Shi, S. Zhang, J. Wu, N. Chen, K. Cheng, Y. Liang, and S. Lu “AdaPyramid: Adaptive Configuration Pyramid for High-resolution Object Detection on Edge Devices,” accepted to appear in *IEEE Transactions on Mobile Computing (TMC)*.
3. S. Lu, J. Wu, P. Lu, N. Wang, H. Liu, and J. Fang, “QoS-aware Online Service Provisioning and Updating in Cost-efficient Multi-tenant Mobile Edge Computing,” accepted to appear in *IEEE Transactions on Services Computing (TSC)*.
4. C. Li, Y. Mao, Q. Huang, X. Zhu, and J. Wu, “Scale-Aware Graph Convolutional Network with Part-Level Refinement for Skeleton-Based Human Action Recognition,” accepted to appear in *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*.

5. L. Wang, L. Hou, S. Liu, Z. Han, and J. Wu, "Reinforcement Contract Design for Vehicular Edge Computing Scheduling and Energy Trading via Deep Q-Network with Hybrid Action Space," accepted to appear in *IEEE Transactions on Mobile Computing (TMC)*.
6. K. Jiang, Y. Cao, H. Zhou, J. Wu, Z. Zhang, and Z. Liu, "Adaptive Dynamic Programming for Multi-Driver Order Dispatching at Large-Scale," accepted to appear in *IEEE Transactions on Cognitive Communications and Networking (TCCN)*.
7. S. Wang, Q. Liu, Y. Xu, H. Jiang, J. Wu, T. Wang, T. Peng, and G. Wang, "Protecting Inference Privacy with Accuracy Improvement in Mobile-Cloud Deep Learning," accepted to appear in *IEEE Transactions on Mobile Computing (TMC)*.
8. Q. Liu, Y. Peng, Z. Tang, H. Jiang, J. Wu, T. Wang, T. Peng, and G. Wang, "veffChain: Enabling Freshness Authentication of Rich Queries over Blockchain Databases," accepted to appear in *IEEE Transactions on Knowledge and Data Engineering*.
9. N. Chen, S. Zhang, Z. Ma, Y. Chen, Y. Jin, J. Wu, Z. Qian, Y. Liang, and S. Lu, "ViChaser: Chase Your Viewpoint for Live Video Streaming with Block-Oriented Super-Resolution," accepted to appear in *IEEE/ACM Transactions on Networking (TNET)*.
10. Q. Liu, Y. Peng, Q. Xu, H. Jiang, J. Wu, T. Wang, T. Peng, G. Wang, and S. Zhang, "MARS: Enabling Verifiable Range-Aggregate Queries in Multi-Source Environments," accepted to appear in *Transactions on Dependable and Secure Computing (TDSC)*.
11. K. Liu, Y. Peng, H. Jiang, J. Wu, T. Wang, T. Peng, and G. Wang,, "Authorized Keyword Search on Mobile Devices in Secure Data Outsourcing," accepted to appear in *IEEE Transactions on Mobile Computing (TMC)*.
12. K. Sakai, M. Sun, W. Ku, and J. Wu, "Barrier Penetration Routing Against Wireless Spy Sensors," accepted to appear in *IEEE Transactions on Mobile Computing (TMC)*.
13. Y. Xu, M. Xiao, Y. Zhu, J. Wu, S. Zhang, and J. Zhou, "AoI-guaranteed Incentive Mechanism for Mobile Crowdsensing with Freshness Concerns," accepted to appear in *IEEE Transactions on Mobile Computing (TMC)*.
14. Y. Duan and J. Wu, "Optimizing Job Offloading Schedule for Collaborative DNN Inference," accepted to appear in *IEEE Transactions on Mobile Computing (TMC)*.
15. Y. Yang, K. Lou, E. Wang, W. Liu, J. Shang, X. Song, D. Li, and J. Wu, "Multi-Agent Reinforcement Learning Based File Caching Strategy in Mobile Edge Computing," accepted to appear in *IEEE/ACM Transactions on Networking (TNET)*.
16. H. Zhou, K. Jiang, S. He, G. Min, and J. Wu, "Distributed Multi-Agent Reinforcement Learning for Cooperative Edge Caching in Internet-of-Vehicles," accepted to appear in *IEEE Transactions on Wireless Communications (TWC)*.
17. Y. Fan, J. Ge, S. Zhang, J. Wu, and B. Luo, "Decentralized Scheduling for Concurrent Tasks in Mobile Edge Computing via Deep Reinforcement Learning," accepted to appear in *IEEE Transactions on Mobile Computing (TMC)*.

18. E. Wang, Y. Xu, Y. Yang, Y. Jiang, F. Yang, and J. Wu, "Zone-Enhanced Spatio-Temporal Representation Learning for Urban POI Recommendation," accepted to appear in *Transactions on Knowledge and Data Engineering (TKDE)*.
19. S. Jiang and J. Wu, "Approaching an Optimal Bitcoin Mining Overlay," accepted to appear in *IEEE/ACM Transactions on Networking (TNET)*.
20. 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)*.
21. 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)*.
22. 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)*.
23. 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)*.
24. 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)*.
25. 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)*.
26. 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*.
27. 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," *IEEE Transaction on Parallel and Distributed Systems (TPDS)*, Vol. 34, No. 5, 2023, 1635-1649.
28. Y. Zhao, C. Liu, K. Zhu, S. Zhang, and J. Wu, "GSMAC: GAN-Based Signal map Construction With Active Crowdsourcing," *IEEE Transactions on Mobile Computing*, Vol. 22, No. 4, 2023, 2190-2204.
29. H. Wang, Y. Yang, E. Wang, W. Liu, Y. Xu, and J. Wu, "Truthful User Recruitment for Cooperative Crowdsensing Task: A Combinatorial Multi-Armed Bandit Approach," *IEEE Transactions on Mobile Computing*, Vol. 22, No. 7, 2023, 4314-4331.
30. Y. Xu, M. Xiao, J. Wu, S. Zhang, and G. Gao, "Incentive Mechanism for Spatial Crowdsourcing With Unknown Social-Aware Workers: A Three-Stage Stackelberg Game Approach," *IEEE Transactions on Mobile Computing*, Vol. 22, No. 8, 2023, 4698-4713.

31. J. Chen, W. Jiang, J. Wu, K. Li, and K. Li, "Dynamic Personalized POI Sequence Recommendation with Fine-Grained Contexts," *ACM Transactions on Internet Technology*, Vol. 23, No. 2, 2023, 1-28.
32. E. Wang, M. Zhang, W. Liu, H. Xiong, B. Yang, Y. Yang, and J. Wu, "Outlier-Concerned Data Completion Exploiting Intra- and Inter-Data Correlations in Sparse CrowdSensing," *IEEE/ACM Transactions on Networking*, Vol. 31, No. 2, 2023, 648-663.
33. 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, 2023, 475-488.
34. S. Huang, H. Huang, G. Gao, Y. Sun, Y. Du, and J. Wu, "Edge Resource Pricing and Scheduling for Blockchain: A Stackelberg Game Approach," *IEEE Transactions on Services Computing*, Vol. 16, No. 2, 2023, 1093-1106.
35. Y. Duan and J. Wu, "Accelerating Distributed Machine Learning with Model Compression and Graph Partition," *Journal of Parallel and Distributed Computing (JPDC)*, Vol. 179, 2023, 104705.
36. 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, 2022, 3909-3921.
37. J. Shang and J. Wu, "Secure Voice Input on Augmented Reality Headsets," *IEEE Transactions on Mobile Computing*, Vol. 21, No. 4, 2022, 1420-1433.
38. 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, 2022, 4642-4656.
39. 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.
40. 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, 2022, 3172-3190.
41. 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, 2022, 3547-3561.
42. 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, 2022, 15554-15569.
43. 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, 2022, 10242-10256.

44. 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, 2022, 3895-3911.
45. 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, 2022, 1-15.
46. 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, 2022, 3502-3518.
47. 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.
48. 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.
49. 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.
50. 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.
51. 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.
52. 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.
53. 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.
54. 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.
55. 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.
56. 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.
57. 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.

58. 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.
59. 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.
60. 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.
61. 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.
62. 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.
63. 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.
64. Y. Duan and J. Wu, "Improving Learning-Based DAG Scheduling by Inserting Deliberate Idle Slots," *IEEE Network*, Vol. 35, No. 6, 2021, 133-139.
65. 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.
66. 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.
67. 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 (JSAC)*, Vol. 39, No. 11, 2021, 3444-3458.
68. 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.
69. 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.
70. 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.
71. S. Zhao, R. Hao, and J. Wu, "The generalized 4-connectivity of hierarchical cubic networks," *Elsevier Discrete Applied Mathematics*, Vol. 289, 2021, 194-206.

72. 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.
73. 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.
74. 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.
75. 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.
76. 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.
77. 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.
78. 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 (JSAC)*, Vol. 39, No. 8, 2021, 2445-2460.
79. 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.
80. 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.
81. J. Zhang, W. Jiang, J. Zhang, J. Wu, and G. Wang, "Exploring Weather Data to Predict Activity Attendance in Event-based Social Network: From the Organizer's View," *IEEE Transactions on the Web*, Vol. 15, No. 4, 2021, 1556-4681.
82. 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.
83. 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.
84. 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.



85. 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.
86. 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.
87. 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.
88. Y. Liang, J. Ge, S. Zhang, J. Wu, L. Pan, T. Zhang, and B. Luo, "Interaction-Oriented Service Entity Placement in Edge Computing," *IEEE Transactions on Mobile Computing*, Vol. 7, No.5, 2021, 4016-4027.
89. 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.
90. 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.
91. W. Jiang, J. Chen, X. Ding, J. Wu, J. He, and G. Wang, "Review Summary Generation in Online Systems: Frameworks for Supervised and Unsupervised Scenarios," *IEEE Transactions on the Web*, Vol. 15, No. 13, 2021, 1-13.
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94. J. Chen, K. He, L. Deng, Q. Yuan, R. Du, Y. Xiang, and J. Wu, "EliMFS: Achieving Efficient, Leakage-resilient, and Multi-keyword Fuzzy Search on Encrypted Cloud Data," *IEEE Transactions on Services Computing*, Vol. 13, No. 6, 2020, 1072 - 1085.
95. S. Zhang, G. Yu, J. Ge, M. Xiao, and J. Wu, "Provably Efficient Resource Allocation for Edge Service Entities using Hermes," *IEEE Transactions on Networking*, Vol. 28, No. 4, 2020, 1684-1697.
96. J. Zhang, Y. Zhao, J. Wu, and B. Chen, "LVPDA: A Lightweight and Verifiable Privacy-Preserving Data Aggregation Scheme for Edge-Enabled IoT," *IEEE Internet of Things Journal*, Vol. 7, No. 5, 2020, 4016-4027.
97. M. Z. Alam Bhuiyan, T. Wang, M. A. Rahman, L. Qi, G. Wang, J. Wu, and T. Hayajneh, "Preserving Balance between Privacy and Data Integrity in Edge-Assisted Internet of Things," *IEEE Internet of Things Journal*, Vol. 7, No. 4, 2020, 2679-2689.

98. 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.
99. 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.
100. 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.
101. E. Wang, Y. Yang, J. Wu, K. Lou, W. Liu, and Y. Xu, "Budgeted Video Replacement Policy in Mobile Crowdsensing," *Journal of Parallel and Distributed Computing*, Vol. 136, 2020, 1-13.
102. 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.
103. H. Zhou, X. Chen, S. He, J. Chen, and J. Wu, "DRAIM: A Novel Delay-constraint and Reverse Auction-based Incentive Mechanism for WiFi Offloading," *IEEE Transactions on Mobile Computing*, Vol. 38, No. 4, 2020, 711-722.
104. H. Tao, M. Z. Alam Bhuiyan, M. A. Rahman, T. Wang, J. Wu, S. Q. Salih, Y. Li, and T. Hayajneh, "TrustData: Trustworthy and Secured Data Collection for Event Detection in Industrial Cyber-Physical System," *IEEE Transactions on Industrial Informatics*, Vol. 16, No. 5, 2020, 3311-3321.
105. G. Gao, M. Xiao, J. Wu, S. Zhang, L. Huang, and G. Xiao, "DPDT: A Differentially Private Crowd-Sensed Data Trading Mechanism," *IEEE Internet of Things Journal*, Vol. 7, No. 1, 2020, 751-762.
106. Y. Ma, W. Liang, J. Wu, and Z. Xu, "Throughput Maximization of NFV-Enabled Multicasting in Mobile Edge Cloud Networks," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 31, No. 2, 2020, 393-407.
107. E. Wang, Y. Yang, J. Wu, K. Lou, D. Luan, and H. Wang, "User Recruitment System for Efficient Photo Collecting in Mobile Crowdsensing," *IEEE Transactions on Human-Machine Systems*, Vol. 50, No. 1, 2020, 1-12.
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## 4.2 Refereed Conference Proceedings

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#### 4.3.1 Magazine Articles (2)

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2. J. Wu, "Some Reflections on C&I Education," *CCF China National Computer Conference, Invited Keynote*, Communication of CCF, (in Chinese), Vol. 8, No. 1, 2012, 40-43.
3. J. Wu and F. Dai, "Mobility Control and Its Applications in Mobile Ad Hoc Networks," *IEEE Network*, July-August 2004, 30-35.

#### 4.4 Department Technical Reports (80)

#### 4.5 Keynote Speeches (55)

- Keynoter Speaker: Edge-Cloud Networks for Efficient AI/ML Implementations, *Cloudnet*, 2023.
- Keynote Speaker: Challenges and Opportunities in Re-Balancing of Bike Sharing Systems, *ISTEC-CoSQA*, 2023.
- Keynote Speaker: On Cost-Optimal Parallel Solution of the Majority Problem, *APDCM*, 2023.
- Keynote Speaker: On Optimal Partitioning and Scheduling of DNNs in Mobile Edge/Cloud Computing, *ICAICE*, 2021.
- Keynote Speaker: Crowdsourcing as a Future Collaborative Computing Paradigm, *CollaborateCom*, 2021.
- Keynote Speaker: Enhancing Scalability and Liquidation in QoS Lightning Networks, *IWQoS*, 2021.
- Keynote Speaker: Challenges and Opportunities in Re-Balancing of Bike-Sharing Systems, *FICC*, 2021.
- Keynote Speaker: Cyber Security Defense: From Moving Target Defense to Cyber Deception, *CSP*, 2021.
- Keynote Speaker: On Optimal Partitioning and Scheduling of DNNs in Mobile Edge/Cloud Computing, *ICPADS*, 2020.
- Keynote Speaker: Blockchain Mining Game in Hierarchical Blockchain Mining Offloading, *BRAINS*, 2020.
- Keynote Speaker: Algorithmic Solutions for Re-Balancing in Bike Sharing: Challenges and Opportunities, *ICNC*, 2020.
- Keynote Speaker: Cyber Security Defense: From Moving Target Defense to Cyber Deception, *DependSys*, 2019.
- Keynote Speaker: Cyber Security Defense: From Moving Target Defense to Cyber Deception, *FCS*, 2019.
- Keynote Speaker: Maximum Elastic Scheduling Based on the Hose Model, *HPC China*, 2019.
- Keynote Speaker: On Efficient Data Collection Using Autonomous Underwater Vehicles, *Big Data Expo*, 2019.
- Keynote Speaker: On Authenticated Query Processing via Untrusted Cloud Service Providers, *IEEE Trustcom*, 2018.
- Keynote Speaker: Joint Scheduling of Overlapping Phases in the MapReduce Framework, *ISPA*, 2018.

- Keynote Speaker: On Effective Computer Science Education in the Era of Information Technology, *International Conference on Information Technology in Medicine and Education*, 2018.
- Keynote Speaker: On Balancing Middlebox Set-up Cost and Bandwidth Consumption in NFV,, *PVE-SDN* (in conjunction with NetSoft), 2018.
- Keynote Speaker: On Efficient Data Collection Using Autonomous Underwater Vehicles, *WASA*, 2018.
- Keynote Speaker: Joint Scheduling of Overlapping Phases in the MapReduce Framework, *CloudCom*, 2017.
- Keynote Speaker: Collaborative Mobile Charging: From Abstraction to Solution, *ACM MobiArch* (in conjunction with ACM SIGCOMM), 2017.
- Keynote Speaker: Algorithmic Crowdsourcing and Its Applications in Big Data, *ICISCE*, 2017.
- Plenary Speaker: Algorithmic Crowdsourcing and Its Applications in Big Data, *IEEE ICNC*, 2017.
- Keynote Speaker: Algorithmic Crowdsourcing and Its Applications in Big Data, *APSCC*, 2016.
- Keynote Speaker: Dual-Centric Data Center Network Architectures, *SRMPDS*, 2016.
- Keynote Speaker: Collaborative Mobile Charging: From Abstraction to Solution, *IEEE/ACM IWQoS*, 2016.
- Keynote Speaker: Algorithmic Crowdsourcing: Current Status and Future Perspective, *IPCCC*, 2014, and *IEEE APDCM*, 2016.
- Keynote Speaker: Resource Allocation in Network Virtualization, *WSDIF (in conjunction with IEEE MASS)*, 2014.
- Keynote Speaker: Social-Aware Routing in Delay Tolerant Networks, *DySON (in conjunction with IEEE INFOCOM)*, 2014.
- Keynote Speaker: Algorithmic Crowdsourcing and Applications in Big Data, *Intel-CSU Transparent Computing and Big Data Summit*, 2014.
- Keynote Speaker: Collaborative Mobile Charging and Coverage in Wireless Sensor Networks, *THU-SJTU Joint Workshop on Mobile Computing and Networking*, 2014.
- Keynote Speaker: Collaborative Mobile Charging and Coverage in WSNs, *MiSeNet (in conjunction with ACM MobiCom)*, 2013.
- Plenary Speaker: Resilient Priority-Based Data Transmission Using Network Coding, *Resilience Week*, 2013.
- Keynote Speaker: Algorithmic Crowdsourcing, *The 5th International Workshop on Hop Topics in Peer-to-peer Computing and Online Social Networking (HotPOST)*, July 2013.

- Keynote Speaker: Utility-based Routing and Its Application in Dynamic Wireless Networks, *IEEE TrustCom*, June 2012.
- Keynote Speaker: Utility-based Routing and its Application in Dynamic Wireless Network, *IEEE ChinaCom*, August 2012.
- Keynote Speaker: Some Reflections on C&I Education, *CCF CNCC*, November 2011.
- Keynote Speaker: Some Challenges in Routing in Dynamic Networks. *2011 IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)*, October 2011.
- Keynote Speaker: Trust Mechanisms and Their Applications in Dynamic and Mobile Computer Systems. *2009 IEEE/IFIP International Symposium on Trusted Computing and Communications*, Aug. 2009.
- Keynote Speaker: A Utility-based Routing Scheme and Its Applications. *2009 IEEE International Symposium on Parallel and Distributed Processing with Applications (ISPA)*, August 2009.
- 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.
- Keynote Speaker: A Utility-based Routing Scheme in Ad Hoc Networks. *2008 International Conference on Wireless Algorithms, Systems and Applications (WASA)*, Oct. 2008.
- Keynote Speaker: Mobility in Ad Hoc Wireless Networks: Friend or Foe. *The 8th IEEE International Symposium on Network Computing and Applications (NCA)*, July 2008.
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- Keynote Speaker: A Utility-based Routing Scheme in MANETs, *The 4th IEEE International Conference on Mobile Ad-Hoc and Sensor Systems (MASS)*, Oct. 2007.
- 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.
- 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.
- Keynote Speaker: The 2nd International Conference on Mobile Ad-Hoc and Sensor Networks (MSN), 2006.
- Keynote Speaker: The 6th International Workshop on Parallel and Distributed Scientific and Engineering Computing (PDSEC), 2005.
- Keynote Speaker: The 3rd International Workshop on Mobile Distributed Computing (MDC), 2005.
- Keynote Speaker: The 6th International Workshop on Advances in Parallel and Distributed Computational Models, 2004.



- Keynote Speaker: International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT), 2004.
- Keynote Speaker: International Symposium on Parallel Processing and Applications, 2003.
- Keynote Speaker: International Conference on Parallel and Distributed Computing and Networks, 1998.

#### **4.6 Presentations (Distinguished Lectures and Invited Seminars)(232)**

University of Science and Technology of China (China), Suzhou University (China), University of Arizona, George Mason University, Hehai University (China), IEEE ComSoc TCCN online seminar, Fujian Normal University (China), Beijing University of Technology (China), North Carolina State University, Fujian Normal University (China), University of Vienna (Austria), Jilin University (China), Northwestern Polytechnical University (China), Texas A&M University at Kingsville, Shanghai University (China), Beijing Post and Telecommunications University (China), University of Jordan (Jordan), Al Maaref University (Lebanon), American University in Beirut (Lebanon), Fudan University (China), Hunan University (China), Northwestern Polytechnical University (China), University of Macau (China), New York University, University of Technology Sydney (Australia), Nanyang Technological University (Singapore), University of Tunku Abdul Rahman (Malaysia), Rowan University, Arizona State University, University of Texas, Dallas, University of Delaware, China Three Gorges University, University of Brasilia (Brazil), Sun Yat-Sen University (China), Beijing Jiaotong University (China), Hehai University (China), Nanjing University of Aeronautics & Astronautics (China), Northeastern University, Michigan Tech, University of Toronto, Xiamen University (China), Beijing Institute of Technology (China), Henan University of Finance and Economics (China), University of Buffalo, Shanghai Jiaotong University (China), Old Dominion University (Distinguished Lecture), University of Electronic Science and Technology (China), Nanjing University of Aeronautics and Astronautics (China), North China University of Technology (China), Beijing University of Posts and Telecommunications (China), Italian National Research Council (Italy), University of Rome (Italy), Anna University (India), India Institute of Technology (India) International Institute of Information Technology (India), University of Alabama (Distinguished Lecture), Texas State University, Syracuse University, Purdue University Calumet, Illinois Institute of Technology, Colorado State University ISTE, Shenzhen Institutes of Advanced Technology, Pontificia Universidad Catolica de Chile, Universidad Finis Terrae, Tsinghua University (China), Chinese Academy of Science (Distinguished Lecture), Colorado State University, Suzhou University (China), University of Electronic Science and Technology of China, Jilin University (China), New Jersey Institute of Technology, MiSeNet (in conjunction with ACM MobiCom), Resilience Week, Dalian University of Technology (China), Hunan University (China), Wayne State University (ACM Distinguished Lecture), University of Michigan Dearborn (Distinguished Lecture), Hunan University of Humanities, Science and Technology (China), University of Belgrade, Tsinghua University (Distinguished Lecture), Rutgers University, Ohio State University (Distinguished Speaker), The Polytechnic University of Hong Kong, University of Electronic Science and Technology of China, Tsinghua University, UAE University (Distinguished Lecture), University of Electronic Science and Technology of China, Pennsylvania State University, University of Pennsylvania, Indian Institute of Technology (Mumbai), Indian Institute of Technology

(Delhi), College of William and Mary (Distinguished Lecture), Shanghai Jiaotong University (China), Central South University (China), The Polytechnic University of Hong Kong, Zhongshang University (China), University of Ricardo Palma (Peru), Lehigh University, Drexel University, University of Memphis, Stevens Institute of Technology, University of Illinois at Urbana-Champaign, Indiana University-Purdue University Indianapolis, Institute of Software at Chinese Academic of Sciences, Tsinghua University, Shanghai Jiaotong University, Wayne State University, Georgia Institute of Technology, Ohio State University (Distinguished Lecture), Inner Mongolia University (China), Central South University (China), Montclair State University, University of Buenos Aires (Argentina), Hong Kong Baptist University (Hong Kong), Wuhan University (China), American University in Beirut, Zhongshang University (China), George Washington University, West Chester University, National University of Defense Technology (China), Xiamen University (China), Michigan State University, McGill University (Canada), University of Tsukuba (Japan), University of Massachusetts at Amherst, University of Nebraska at Lincoln, Northeastern University (China), Polytechnic University of Milan (Italy), University of Connecticut, University of Alabama, Academy of Sciences (Taiwan), Tamkang University (Taiwan), National Qiaotong University (Taiwan), Zhejiang University (China), Kent State University, Hong Kong Polytechnic University (Hong Kong), University of Minnesota (sponsored by Cray Inc.), University of Cincinnati (IEEE Distinguished Lecture), IEEE Ottawa Chapter (Canada) (IEEE Distinguished Lecture), City University of Hong Kong, Shanghai Jiaotong University, Shanghai University, IEEE Central Texas Chapter (IEEE Distinguished Lecture), Motorola (Plantation, FL), Southwest Texas State University, University of Toledo, IEEE Philadelphia Chapter (IEEE Distinguished Lecture), Univ. of New South Wale (Australia), Old Dominion University, National Central University (Taiwan), National Taiwan University (Taiwan), National Tsinghua University (Taiwan), National Cheng-Kung University (Taiwan), Tokyo Denki University (Japan), The University of Vermont, Nanjing University (China), Xi'an Qiaotong University (China), Chinese Academy of Science (China), Tsinghua University (China), American University of Bulgaria (Bulgaria), University of Newcastle Upon Tyne (England), Motorola (Boynton Beach, FL), Shanghai Railway University (China), Louisiana State University, Polish Academy of Sciences (Poland), Shanghai University of Science and Technology (China) Polytechnic University of Madrid (Spain), University of Hong Kong (Hong Kong), Georgia Institute of Technology, University of Rhode Island, IEEE Palm Beach Chapter, Utah State University, Xavier University, George Mason University (Distinguished Lecture).

## 5 Sponsored Research

- *SaTC: EDU: Enhancing Cybersecurity Training for Next Generation Healthcare Professionals* (PI) (SaTC 2310298) 08/23-07/26  
Supported by National Science Foundation (NSF), Alexandria, VI. (\$400,000)
- *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. (\$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. (\$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 portion, \$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. (\$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) 05/15 - 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-present  
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. (\$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. (\$149,868)
- *REU Site: Enhancing Undergraduate Experience in Next Generation Networking Technologies* (Co-PI) (CNS 1156574) 06/12 - 05/16  
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. (\$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) (CNS 0626240) 09/06-09/09  
Supported by National Science Foundation (NSF), Arlington, VI. (\$284,943)
- *Outstanding Overseas Young Researcher Award* (PI) 08/06 - present  
Supported by National Nature Science Foundation of China (400,000 Chinese Yuan = \$50,000)
- *IEEE MASS 2006 Travel Grant* (PI) 09/06-09/07  
National Science Foundation (NSF), Arlington, VI. (\$15,000)
- *Acquisition of a NUMA-based Supercluster for High Performance Computing* (PI) 9/05 - 9/08.  
Supported by National Science Foundation, 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)
- *Efficient and Localized Broadcasting in Ad-Hoc Wireless Networks* (PI) 9/04 - 9/07.  
Supported by National Science Foundation, Arlington, VA (CNS 0422762) (\$225,000)
- *Wireless and Sensor Network Laboratory* (CNS 0434533) (Co-PI) 8/04 - 8/07.  
Supported by National Science Foundation, Arlington, VA (CNS 0422762) (\$57,263)
- *Secure Telecommunication Networks* (Co-PI) 9/04 - 9/06.  
Supported by Defense Information Systems Agency (DISA) (\$ 300,000 out of \$3,000,000)
- *Energy Efficient Communication in Sensor Networks* (PI) 9/03 - 9/06.  
Supported by National Science Foundation, 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, Arlington, VA (CCR 0335238) (\$22,200)
- *Research Experiences for Undergraduates (REU)* (PI) 5/03 - 5/04 Supported by National Science Foundation, Arlington, VA (\$11,650)
- *A Theory of Fault-Tolerant Adaptive and Minimal Routing in Mesh-Connected Multicomputers* (PI) 4/99 - 4/03.  
Supported by National Science Foundation, Arlington, VA (CCR 9900646) (\$134,109)
- *A Dominating-Set-Based Routing Scheme in Ad-Hoc Wireless Networks* (PI) 6/00 - 6/03.  
Supported by National Science Foundation, Arlington, VA (ANI 0073736) (\$181,957)
- *A Low Cost Parallel and Distributed Systems Laboratory* (PI) 9/01 - 9/04.  
Supported by National Science Foundation, Arlington, VA (EIA 0130806) (\$79,039)
- *Research Experiences for Undergraduates (REU)* (PI) 5/02 - 5/03 Supported by National Science Foundation, Arlington, VA (\$5,500)

- Implementation of Radio Service Software (PI) 1/97 - present.  
Supported by a grant from Motorola, Inc. Plantation, FL (\$1,898,255)
- Self-Organization Cluster-Tree Design in ns-2 platform (PI) 8/03 - 7/04.  
Supported by a grant Florida Communication Research Lab, Motorola, Inc. Plantation, FL (\$60,000)
- Software Path Coverage (PI) 1/03 - 12/03.  
Supported by a grant from Motorola, Inc. Plantation, FL (\$55,487)
- Computer System Evaluation (PI) 1/90-5/95.  
Supported by IBM, Boca Raton, FL (\$1,030,000)
- PI in 6 other sponsored research grants (a total of over \$400,000) funded by:
  - Motorola, Boynton Beach, FL (1997-1998)
  - South Florida Water Management District (1996-1998)
  - Florida High Tech. and Industry Council (1990-1991)
  - Alpine Engineered, FL (1999-2000)
  - Malema Corp., FL (2000-2001)
  - SIVA Corp., FL (2000-2001 and 2005-2006)
  - EDSS Corp., FL (2003-2003)

## 6 Instructional Experience

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

Ad-Hoc Networks, Internet Routing Protocols, Design and Analysis of Parallel Algorithms, Distributed Algorithms, Distributed System Design, Formal Specification Methods, Introduction to Parallel Computers, Real-Time Software, Fault-Tolerant System Design, Concurrent Processing, Analysis of Algorithms, Distributed Computing and Design and Analysis of Algorithms.

### 6.2 Undergraduate Level Courses (14, including one new course)

Design and Analysis of Algorithms, Data Structure and Algorithm Design Using C, Introduction to Computers, Data Structure and Algorithm Design Using C++, Introduction to Logic Design, Structured Computer Architecture, Switching Systems, Senior Project, Senior Seminar, Engineering Design II, Cooperative Education in CS, Cooperative Education in IS&T, Programming Methodologies (at Shanghai University), and Programming Language Pascal (at Shanghai University)

## 6.3 Mentorship

### **(Postdoctoral Associates: 3)**

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

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

- Yubing Duan, “Accelerating DNN Inference and Training in Distributed Systems,” (Summer 2022).  
(Software Engineer, Facebook Inc.)
- Suhan Jiang, “Theoretical Discussions on Blockchain-based Systems: Design, Extension, and Application,” (Spring 2022).  
(Software Engineer, Facebook Inc.)
- Rajorshi Biswas, “Mitigation of Different Network Attacks and Optimization in Software Defined Network,” (Summer 2021).  
(Assistant Professor, Penn State University Berks)
- Yang Chen, “Resource Scheduling in Software-Defined Networks,” (Summer 2020).  
(Software Engineer, Facebook Inc.)
- Jiacheng Shang, “Non-intrusive Sensing in Wireless Environment,” (Summer 2020).  
(Assistant Professor, Montclair State University)
- Ning Wang, “Efficient Routing and Offloading Design in Internet-of-Things Systems,” (Summer 2018)  
(Assistant Professor, Rowan University)
- Huiyang Zheng, “Social Network Architectures and Applications,” (Winter of 2017).  
(Software Engineer, Google Inc.)
- Dawei Li, “On the Design and Analysis of Cloud Data Center Network Architectures,” (Winter 2016)  
(Assistant Professor, Montclair State University)

- Wei Chang, “Security and Privacy Issues in Social Information-Assisted Application Design,” (Summer 2016)  
(Assistant Professor, Saint Joseph’s University)
- Pouya Ostovari, “Priority-Based Data Transmission in Wireless Networks using Network Coding,” (Winter 2015).  
(Assistant Professor, San Jose State University)
- Ying Dai, “Spectrum Management and Cross-layer Protocol Design in Cognitive Radio Networks,” (Winter 2014).  
(Software Engineer, LinkedIn Inc.)
- Wenjun Jiang, “Researches on Personalized Trust Evaluation in Online Social Networks,” (Co-adviser, Summer 2014).  
(Professor, Hunan University, China)
- Yunsheng Wang, “Social Feature based Routing in Delay Tolerant Networks,” (Summer 2013).  
(Associate Professor, Kettering University)
- Qin Liu, “Security in Cloud Computing with Multi-User Data Sharing,” (Co-adviser, Winter 2012).  
(Associate Professor, Hunan University, P. R. China)
- Yaxiong Zhao, “Efficient Content-Based Publish/Subscribe Systems for Dynamic and Large-Scale Networked Applications,” (Summer 2012)  
(Software Engineer, Google Inc.)
- Cong Liu, “Design and Implementation of Efficient Routing Protocols in Delay Tolerant Networks,” (Summer 2009)  
(Associate Professor, Sun Yat-sen University, P. R. China)
- 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)
- Avinash Srinivasan, “Secured Broadcasting in Mobile Ad-Hoc Networks,” (Summer 2008).  
(Associate Professor at Temple University, Philadelphia)
- Mingming Lu, “Incentive Mechanisms in Mobile Ad-Hoc Networks,” (Summer 2008)  
(Associate Professor at Central South China University, P. R. China)
- Shuhui Yang, “Connected Dominating Set (CDS) in Wireless Ad Hoc Networks: Variations with Applications,” (Fall 2007).



(Full Professor at Purdue University Northwest, Indiana)

- Bing Wu, “Key Management in Secured Ad-Hoc Networks,” (Fall 2006).

(Full Professor at Fayetteville State University, North Carolina)

- Xiuqi Li, “Efficient Searching in Unstructured Peer-to-Peer Networks,” (Fall 2006).

(Associate Professor at Temple University, Philadelphia)

- Imad Jawhar, “Quality of Service Support in TDMA-Based Mobile Ad-Hoc Networks,” (Summer 2005).

(Chair and Full Professor at Al Maaref University, Lebanon)

- Fei Dai, “Localized Broadcasting in Ad-Hoc Wireless Networks,” (Summer 2005).

(Senior SOE, Microsoft Corp.)

- Wei Lou, “Broadcasting in Ad-Hoc Wireless Networks,” (Summer 2004).

(Associate Professor at Hong Kong Polytechnic University, Hong Kong)

- Zhen Jiang, “Fault-Tolerant Routing in Mesh-Connected Networks with Dynamic Faults,” (Summer 2002).

(Full Professor at West Chester University, Pennsylvania)

- Xiao Chen, “Fault-Tolerant Routing in 2-D and 3-D Meshes,” (Summer 1999).

(Associate Professor at Texas State University, Texas)

- Praduem Goyal, “Cube-Connected-Cubes Multicomputers,” (Fall 1998).

- Ke Huang, “The Balanced Hypercube and Its Applications,” (Summer 1997).

- Yijun Wang, “A Uniform Hardware and Software Fault-Tolerant Model,” (Fall 1995).

- Larry Brown, “Fault-Tolerant Distributed Shared Memories,” (Fall 1993).

- Nadia Niknami, “Security Enhancement in SDN Networks,” (in progress).

- Abdalaziz Sawwan, “Extended Multi-Armed Bandits,” (in progress).

- Nasif Fahmid Prangon, “Intelligent Cloud Networking,” (in progress).

**(Visiting Professors/Scholars: 17)**

**(Visiting PhD Students: 16)**

**(MS Theses: 35 completed and 1 in progress)**

## 7 Professional Service

### 7.1 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)
- Upsilon Pi Epsilon (UPE): Computing Science Honor Society

### 7.2 Editorial Board

- IEEE/ACM Transactions on Networking (ToN) (2023 - present)
- 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 Analytics”)
- 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 Service Computing (Guest Editor, 09/2016-10/2016)  
(special issue on “Mobile Big Data Management and Innovative Applications”)
- IEEE Transactions on Computers (2009 - 2014)
- Science China (Information Sciences) (2014 - 2017)
- Journal of Parallel and Distributed Computing (2009 - present)

- Frontier of Computer Science (01/2010-present)
- IEEE Transactions on Mobile Computing (2008-2010)
- IEEE Transactions on Parallel and Distributed Systems, (2001-2005)
- IEEE Computer (Guest Editor, 02/2004)  
(special issue on “Ad-Hoc Networking”)
- Journal of Parallel and Distributed Computing (Guest Editor, 12/2004)  
(special issue on “Theoretical and Algorithmic Aspects of Sensor, Ad-Hoc Networks, and Peer-to-Peer Networks”)
- IEEE Transactions on Parallel and Distributed Systems (Guest Editor, 11/1999)  
(special issue on “Challenges in Designing Fault-Tolerant Routing in Networks”)
- Journal of Parallel and Distributed Computing (Guest Editor, 9/2001)  
(special issue on “Routing in Computer and Communication Networks”)
- IASTED International Journal of Computers and Applications (Co-Editor-in-Chief, 9/2003-12/2006)
- Computer Networks (2009)
- Elsevier Computer Communications (1/2008 - 12/2009)
- International Journal of Security and Networks (IJSN) (1/2008)
- Journal of Interconnection Networks (1/2007)
- International Journal of High Performance Computing and Networking (IJHPCN) (9/2003)
- 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) (9/2004)
- 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.

### **7.3 Conference Organization**

1. General Co-Chair: The 24th IEEE/ACM international Symposium on Cluster, Cloud and Internet Computing (CCGrid), 2024.
2. Area Chair: IEEE Conference on Communications and Network Security(CNS), 2024.
3. Area TPC Chair: IEEE Conference on Computer Communications (INFOCOM), 2024.

4. General Co-Chair: The 24th ACM International Symposium on Theory, Algorithmic Foundations, and Protocol Design for Mobile Networks and Mobile Computing (MobiHoc), 2023.
5. General Co-Chair: IEEE International Parallel Distributed Processing Symposium (IPDPS), 2023.
6. Area TPC Chair: IEEE Conference on Computer Communications (INFOCOM), 2023.
7. General Chair: IEEE International Conference on Networking, Architecture, and Storage (NAS), 2022.
8. General Co-Chair: International Conference on Mobility, Sensing and Networking (MSN), 2022.
9. Program Committee Member: The 10th IEEE Conference on Communications and Network Security (CNS), 2022.
10. Program Committee Member: The ACM Web. Conference (WWW'22), 2022.
11. Program Area Chair: IEEE Conference on Computer Communications (INFOCOM), 2022.
12. General Co-Chair: International Conference of Distributed Computing and Networking (ICDCN), 2022.
13. General Co-Chair: The 7th International Symposium on Security and Privacy in Social networks and Big Data (SocialSec), 2021.
14. Program Committee Member: The 2021 IEEE International Conference on Blockchain (Blockchain), 2021.
15. Program Committee Member: The 35th AAAI Conference on Artificial Intelligence (AAAI-21), 2021.
16. Program Committee Member: The 55th IEEE International Conference on Communications (ICC), 2021.
17. Program Committee Member: The 9th International Conference on Sensor Networks (SENSOR-NETS), 2021.
18. General Co-Chair: The 19th International Symposium on Modeling and Optimization in Mobile, Ad hoc, and Wireless Networks (WiOpt), 2021
19. Honorary Chair: The 1st International Conference on Cyber Security, Privacy and Networking (IC-SPN 2020).
20. Program Committee Member: The 2020 IEEE International Conference on Blockchain (Blockchain), 2020.
21. Program Committee Member: The 8th IEEE Conference on Communications and Network Security (CNS), 2020.
22. Program Committee Member: The International Conference on Internet of Things and Intelligence System (IoT&IS), 2020.

23. Program Committee Member: The 1st Workshop on Energy Efficiency at the Edge (WEEE), 2020.
24. Program Committee Member: The 54th IEEE International Conference on Communications (ICC), 2020.
25. TPC Co-Chair: The 29th International Conference on Computer Communications and Networks (ICCCN), 2020.
26. Program Committee Member: The 8th International Conference on Sensor Networks (SENSOR-NETS), 2020.
27. Workshop Co-chair: IEEE Global Communication Conference (GLOBECOM), 2019.
28. Workshop General Chair: IEEE International Conference on Mobile Ad-Hoc and Smart Systems (MASS), 2019.
29. Program Committee Member: The 6th International Workshop on Mobile Applications (MobiApps), 2019.
30. Program Committee Member: The 2019 International Conference on Internet of Things and Intelligence System (IoTais), 2019.
31. Program Area Chair: IEEE Conference on Computer Communications (INFOCOM), 2015, 2016, 2017, 2018, 2019, 2020, 2021, and 2022.
32. Program Area Chair: IEEE Conference on Distributed Computing Systems (ICDCS), 2019.
33. Workshop General Co-chair: IEEE Global Communication Conference (GLOBECOM), 2018.
34. 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.
35. General Chair: The 45th International Conference on Parallel Processing (ICPP), 2016.
36. General Chair: IEEE Conference on Communications and Network Security (CNS), 2016.
37. Steering Committee Member: Resilience Week, August, 2015, 2016, and 2017.
38. Steering Committee: ACM Annual International Workshop on Mission-Oriented Wireless Sensor Networking (NISENET).
39. Symposium Chair: Resilient Communication Systems, Resilience week, August 2015.
40. Workshop Chair: The 1st and 2nd National Workshop for REU Research in Networking and Systems, 2014 and 2015.
41. General Chair: The 15th ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), 2014.
42. Area TPC Chair: IEEE International Conference on Network Protocols (ICNP), 2014.
43. Program Chair: CCF China National Computer Congress (CNCC), 2013.

44. Program Chair: Workshop on Security and Reliability in Transparent Computing (SRTC), 2013.
45. General Chair: The 33rd IEEE International Conference on Distributed Computing Systems (ICDCS), 2013.
46. General Co-Chair: The 12th IEEE International Symposium on Signal Processing and Information Technology (ISSPIT), 2012.
47. Co-Chair: 2011 IEEE INFOCOM Achievement Award Committee.
48. Program Co-Chair: The 30th IEEE Conference on Computer Communications (INFOCOM), 2011.
49. Program Co-Chair: International Conference on Distributed Computing and Networking (ICDCN) 2010.
50. General Co-Chair: The 6th IEEE/IFIP International Symposium on Trusted Computing and Communications (TrustCom), 2010.
51. Panel Co-Chair: The 29th IEEE Conference on Computer Communications (INFOCOM), 2010.
52. Award Chair: The 5th International Conference on Networking Architecture and Storages (NAS), 2010.
53. General Co-Chair: International Conference on Distributed Computing in Sensor Systems (DCOSS), 2009.
54. Panel Co-Chair: ACM Annual International Conference on Mobile Computing and Networking (MobiCom), 2009.
55. Area TPC Chair: The 27th, 28th, 29th, 31st, 32nd, 33rd, 34th, 35th, 36th, and 37th IEEE Conference on Computer Communications (INFOCOM), 2008, 2009, 2010, 2012, 2013, 2014, 2015, 2016, 2017, and 2018.
56. 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.
57. General Chair: The 1st ACM International Workshop on Medical-grade Wireless Networks (WiMD) (in conjunction with MobiHoc), 2009.
58. General Chair: IEEE International International Parallel & Distributed Processing Symposium (IPDPS), 2008.
59. Executive Vice Program Chair: The 28th IEEE International Conference on Distributed Computing Systems (ICDCS), 2008.
60. General Co-Chair: The 3rd International Workshop on Sensor Networks (SN 2010), in conjunction with IEEE ICDCS, 2010.
61. General Co-Chair: The International Conference on Wireless Algorithms, Systems and Applications (WASA), 2007.

62. General Co-Chair: The 5th International Symposium on Parallel and Distributed Processing and Applications (ISPA'07), 2007.
63. General Vice Chair: IEEE International International Parallel & Distributed Processing Symposium (IPDPS), 2007.
64. Program Co-Chair: Symposium on Advances in Internet, ChinaCom, 2007.
65. General Chair: The 3rd IEEE International Conference on Mobile Ad-Hoc and Sensor Systems (MASS), 2006.
66. Program Co-Chair: International Workshop on Networking, Architecture, and Storage, 2006.
67. General Vice Chair: The 2nd IEEE International Conference on Distributed Computing Sensor Systems (DCOSS), 2006.
68. General Chair: International Workshop on Wireless and Sensor Networks Security (WSNS'05) (in conjunction with MASS), 2005.
69. Program Co-Chair: The 1st International Workshop on Security and Mobility in Peer-to-Peer Systems (MPPS) (in conjunction with ICDCS), 2005.
70. Program Co-Chair: The 1st International Workshop on Ad-Hoc, Sensor and P2P Networks (AHSP) (in conjunction with ISADS), 2005.
71. Program Co-Chair: International Conference on Mobile Ad-Hoc and Sensor Networks (MSN), 2005.
72. Program Vice Chair: International Conference on Computer Networks and Mobile Computing (ICCNMC), 2005.
73. Program Chair: The 1st IEEE International Conference on Mobile Ad-Hoc and Sensor Systems (MASS), 2004.
74. General Co-Chair: The 2nd International Workshop on Mobile Distributed Computing (MDS), 2004.
75. Workshops Chair: The IEEE International Conference on Distributed Computing Systems (ICDCS), 2003.
76. General Co-Chair: The 7th International Conference on Computer Science and Informatics (ICS), 2003.
77. Program Co-Chair: The 4th and 5th Workshops on Advances in Parallel and Distributed Computational Models (in conjunction with IPDPS), 2002 and 2003.
78. Program Vice Chair: The 21th IEEE International Conference on Distributed Computing Systems (ICDCS), 2001.
79. Program Co-Chair: Workshop on Wireless Networks and Mobile Computing 2001 (in conjunction with ICPP 2001), 2001.
80. Program Vice Chair: The 29th International Conference on Parallel Processing (ICPP), 2000.

81. Program Co-Chair: The 12th ISCA International Conference on Parallel and Distributed Computing Systems (PDCS), 1999.
82. Local Arrangements Chair: The 5th IEEE International Symposium on High Performance Computer Architecture (HPCA), 1999.
83. Steering Committee Chair: The IEEE International Workshop on Wireless Security and Privacy (WiSP).
84. Steering Committee Chair: The IEEE International Workshop on Wireless and Sensor Networks Security (WSNS).
85. Steering Committee: The 1st and 2nd Workshop on Mission-Oriented Wireless Sensor Networking (MiSeNet).
86. Steering Committee: The First International Workshop on Cyber-Physical Networking Systems (CPNS) 2011.
87. Technical Program Committee: The 31st IEEE International Symposium on Reliable Distributed Systems (SRDS) 2012.
88. Technical Program Committee: The 1st, 8th and 9th IEEE IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS), 2005, 2012, and 2013.
89. Technical Program Committee: The 2011 Military Communications Conference (MILCOM) 2011.
90. Advisory Committee: The 13th and 14th ISCA International Conference on Parallel and Distributed Computing Systems (PDCS), 2000 and 2001.
91. Advisory Committee: The 18th and 21st International Conference on Advanced Information Networking and Applications (AINA), 2004 and 2007.
92. Steering Committee Chair: The National Workshop for REU Research in Networking and Systems (REUNS).
93. Steering Committee Chair: The IEEE International Conference on Mobile Ad-Hoc and Sensor Systems (MASS), since 2020.
94. Steering Committee: The ACM International Symposium on Theory, Algorithmic Foundations, and Protocol Design for Mobile Networks and Mobile Computing (MobiHoc), since 2024.
95. Steering Committee: Workshop on IoT based Big Data Architectures and Applications, in conjunction with the 2020 IEEE International Conference on Big Data (IEEE Big Data), 2020.
96. Steering Committee: IEEE International Parallel & Distributed Processing Symposium (IPDPS), 2008 and 2009.
97. Steering Committee: The 6th Workshop on Advances in Parallel and Distributed Computational Models (in conjunction with IPDPS), 2004.
98. Steering Committee: Workshop on Advances in Parallel and Distributed Computational Models (APDCM).



99. Steering Committee: International Symposium on Parallel and Distributed Processing and Application (ISPA).
100. Steering Committee: IEEE Symposium on Reliable Distributed Systems (SRDS).
101. Program Committee: The 15th International Conference on Mobile Systems and Pervasive Computing (MobiSPC), 2018.
102. Program Committee: 15th LACCEI International Multi-Conference for Engineering, Education, and Technology (LACCEI), 2017.
103. Program Committee: IEEE International Conference on Network Protocols (ICNP), 2007, 2008, 2009, 2010, 2011, 2012, and 2013.
104. Program Committee: ACM International Symposium on Mobile Ad-Hoc Networking and Computing (MobiHoc), 2006 and 2007.
105. Program Committee: The 27th IEEE Symposium on Reliable Distributed System (SRDS-27), 2008.
106. Program Committee: The 5th, 6th and 10th Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON), 2008, 2009, and 2013.
107. Program Committee: The 3rd and 4th NSF/TCPP Workshop on Parallel and Distributed Computing Education (EduPar), 2013 and 2014.
108. Program Committee: The 9th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM), 2008.
109. Program Committee: The International Conference on Parallel Processing (ICPP), 1999, 2000, 2001, 2002, 2004, 2006, and 2007.
110. Program Committee: The 16th, 18th, 20th, 21st, 24th, 30th, 32nd, 34th, 36th, and 37th International Conference on Distributed Computing Systems (ICDCS), 1996, 1998, 2000, 2001, 2004, 2010, 2012, 2014, 2016, and 2017.
111. Program Committee: The 23rd and 24th Annual Joint Conference of the IEEE Computer and Communications (INFOCOM), 2004 and 2005.
112. Program Committee: The 5th Annual IEEE International Conference on Pervasive Computing and Communications (PerCom), 2007
113. Program Committee: The IEEE Global Telecommunications Conference (GLOBECOM), 2004.
114. Program Committee: The IEEE ICC SAC Symposium Social Networking Track (ICC), 2018.
115. Program Committee: IEEE International Parallel and Distributed Processing Symposium (IPDPS), 2005.
116. Program Committee: The 10th Annual International Symposium on High Performance Computing (HPCA), 2003.
117. Organization Committee of over 100 other international conferences and workshops.

## 7.4 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.

## 7.5 NSF-related Activities

1. 2013 NSF CAREER Proposal Writing Workshop, March 15, 2013.
2. NSF Wireless Networks PI meeting, Chicago, July 2007.
3. 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.
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.

## 7.6 Professional Referee Service

**Proposals:** National Science Foundation (NSF)

**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, Journal of Parallel and Distributed Computing, Concurrency – Practice and Experience, Software – Practice and Experience, and many other journals.

**Conferences papers:** International Conference of the IEEE Computer and Communications (INFOCOM), ACM International Symposium on Mobile Ad-Hoc Networking and Computing (MobiHoc), IEEE International Conference on Pervasive Computing and Communications (PerCom), IEEE Global Telecommunications Conference (GLOBECOM), IEEE International Conference on Mobile Ad-Hoc and Sensor Systems (MASS), IEEE International Conference on Communications (ICC), IEEE Semi-annual 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), International Symposium on Fault-Tolerant Computing (FTCS), International Conference on Parallel Processing (ICPP), IEEE International Symposium on High-Performance Computer Architecture (HPCA), IEEE International Conference on Distributed Computing Systems (ICDCS), IEEE International Parallel and Processing Symposium (IPPS), IEEE International Symposium on Parallel and Distributed Processing (SPDP), IEEE International Parallel and Distributed Processing Symposium (IPDPS), IEEE Symposium on Reliable Distributed System (SRDS), IEEE International Computer Software and Applications Conference (COMPSAC), and many other conferences.

**Published Reviews of Books and Articles:** Five review articles for *ACM Computing Reviews*. One review article for *IEEE Computer*

## 7.7 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)

## 7.8 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 (2018-2019)

P&T Committee (Chair, 2019-2020)

Dept. Planning Committee (Chair, 2018-2019)

### **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)

## 8 Professional Recognition

- Faculty Research Award, Temple University , 2022.

- 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.
- 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, 12/2006-12/2010.
- Researcher of the Year (Full Professor level): FAU, 2006-2007 and 2001-2002.
- IEEE Distinguished Visitor: Computer Society, September 1998 - August 2001.
- IEEE Computer Society and ICDCS'03 Outstanding Service Award, May 2003.
- Concurrent Professor: Nanjing University, China, 1999 - present.
- Guest Professor: Shanghai Jiaotong University, Shanghai, China, 2002 - present.
- AP Professor: Shenzhen Institutes of Advanced Technology, Chinese Academic of Sciences
- International Advisory Board: School of Electronics, Information and Electrical Engineering (SEIEE), Shanghai Jiaotong University, Shanghai, China, 2002 - 2005.
- Researcher of the Year (Associate Professor level): FAU, 1996-1997.
- Distinguished Guest Lecturer: Department of Computer Science and Engineering, The Ohio State University, 2005.
- Outstanding Achievements Award: International Association of Science and Technology for Development (IASTED), 1998.