

# Jie Wu

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## 1 Employment History

- Director of International Affairs, College of Science and Technology (CST),  
Temple University 09/17 - present
- 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
- 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  
Health-Care IT  
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 341 journal publications)

1. E. Wang, Y. Yang, J. Wu, K. Lou, D. Luan, and H. Wang, "User Recruitment System for Efficient Photo Collecting in Mobile Crowdsensing," accepted to appear in *IEEE Transactions On Human-Machine Systems*.
2. J. Zheng, B. Li, C. Tian, K. Foerster, S. Schmid, G. Chen, J. Wu, and R. Li, "Congestion-Free Rerouting of Multiple Flows in Timed SDNs," accepted to appear in *IEEE Journal on Selected Areas in Communications*.
3. J. Wang, S. Guo, W. Chen, J. Wu, and Y. San, "Big Data Processing with Minimal Delay and Guaranteed Data Resolution in Disaster Areas," accepted to appear in *IEEE Transactions on Vehicular Technology*.
4. Y. Yang, W. Liu, E. Wang, and J. Wu, "A Prediction-based User Selection Framework for Heterogeneous Mobile CrowdSensing," accepted to appear in *IEEE Transactions on Mobile Computing*.
5. J. Xie, D. Guo, J. Wu, B. Ren, T. Chen, and H. Chen, "Exploiting Reliable and Scalable Multicast Services in IaaS Datacenters," accepted to appear in *IEEE Transactions on Services Computing*.

6. Y. Chen, H. Zheng, and J. Wu, "Consistency, Feasibility, and Optimality of Network Update in SDNs," accepted to appear in *IEEE Transactions on Network Science and Engineering*.
7. R. Li, H. Asaeda, and J. Wu, "DCAuth: Data-Centric Authentication for Secure In-Network Big-Data Retrieval," accepted to appear in *IEEE Transactions on Network Science and Engineering*.
8. N. Wang and J. Wu, "Cost-efficient Heterogeneous Worker Recruitment under Coverage Requirement in Spatial Crowdsourcing," accepted to appear in *IEEE Transactions on Big Data*.
9. K. Wang, Y. Shao, L. Xie, J. Wu, and S. Guo, "Adaptive and Fault-tolerant Data Processing in Healthcare IoT Based on Fog Computing," accepted to appear in *IEEE Transactions on Network Science and Engineering*.
10. L. Xie, C. Wang, J. Sun, Q. Cai, J. Wu, and S. Lu, "TaggedAR: An RFID-based Approach for Recognition of Multiple Tagged Objects in Augmented Reality Systems," accepted to appear in *IEEE Transactions on Mobile Computing*.
11. L. Luo, D. Guo, X. Zhao, J. Wu, O. Rottenstreich, and X. Luo, "Near-accurate Multiset Reconciliation," accepted to appear in *IEEE Transactions on Knowledge and Data Engineering*.
12. H. Chen, L. Liao, H. Jin, and J. Wu, "vThe Dynamic Cuckoo Filter," accepted to appear in *IEEE Transactions on Knowledge and Data Engineering*.
13. Y. Dai, J. Wu, and X. Du, "Hierarchical and Hybrid: Mobility-compatible Database-assisted Framework For Dynamic Spectrum Access," accepted to appear in *IEEE Transactions on Network Science and Engineering*.
14. M. Z. Alam Bhuiyan, J. Wu, G. Weiss, T. Hayajneh, T. Wang, and G. Wang, "Event Detection through Differential Pattern Mining in Cyber-Physical Systems," accepted to appear in *IEEE Transactions on Big Data*.
15. J. Zheng, H. Xu, G. Chen, H. Dai, J. Wu, "Congestion-Minimizing Network Update in Data Centers," accepted to appear in *IEEE Transactions on Services Computing*.
16. 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," accepted to appear in *IEEE Transactions on Services Computing*.
17. H. Zheng and J. Wu, "Placement Optimization for Advertisement Dissemination in Smart City," accepted to appear in *IEEE Transactions on Network Science and Engineering*.
18. W. Zhang, Y. Lin, J. Wu, and T. Zhou, "Inference Attack-Resistant E-Healthcare Cloud System with Fine-Grained Access Control," accepted to appear in *IEEE Transactions on Services Computing*.
19. X. Zhu, J. Wu, W. Chang, G. Wang, and Q. Liu, "Efficient Authentication of Multi-dimensional Top-k Queries," *IEEE Access Journal*, Vol. 7, 2018, 4748 – 4762.
20. S. Zhang, Z. Qian, J. Wu, F. Kong, and S. Lu, "Wireless Charger Placement and Power Allocation for Maximizing Charging Quality," *IEEE Transactions on Mobile Computing*, Vol. 17, No. 6, 1483-1496.

21. G. Gao, M. Xiao, J. Wu, L. Huang, and C. Hu, "Truthful Incentive Mechanism for Nondeterministic Crowdsensing with Vehicles," *IEEE Transactions on Mobile Computing*, Vol. 17, No. 12, 2018, 2982 – 2997.
22. E. Wang, Y. Yang, W. Liu, X. Wang, and J. Wu, "An Efficient Prediction-Based User Recruitment for Mobile Crowdsensing," *IEEE Transactions on Mobile Computing*, Vol. 17, 2018, 16-28.
23. S. Lu, Z. Fang, J. Wu, and G. Qu, "Elastic Scheduling for Scaling Virtual Clusters in Cloud Data Center Networks," *IEEE Access Journal*, Vol. 6, 2018, 13632 - 13643.
24. L. Guo, J. Li, J. Wu, W. Chang, and J. Wu, "A Novel Airbnb Matching Scheme in Shared Economy using Confidence and Prediction Uncertainty Analysis," *IEEE Access Journal*, Vol. 6, 2018, 10320 - 10331.
25. S. Li, W. Wang, B. Zhou, J. Cheng, and J. Wu, "A (M,m) Authentication Scheme against mobile sink replication Attack in Unattended Sensor Networks," *IEEE Wireless Communications Letters*, Vol. 7, 2018, 250-253.
26. X. Liu, X. Du, L. Qiu, A. Liu, S. Guo, and J. Wu, "Fast Identification of Blocked RFID Tags," *IEEE Transactions on Mobile Computing*, Vol. 17, 2018, 2041-2054.
27. S. Zhang, Z. Qian, J. Wu, F. Kong, and S. Lu, "Optimizing Itinerary Selection and Charging Association for Mobile Chargers," *IEEE Transactions on Mobile Computing*, Vol. 16, No. 10, Oct. 2017, 2833-2846.
28. H. Li, J. Wu, Z. Jiang, X. Li, and X. Wei, "Minimum Backups for Stream Processing With Recovery Latency Guarantees," *IEEE Transactions on Reliability*, Vol. 66, 2017, 783-794.
29. G. Gao, M. Xiao, J. Wu, K. Han, L. Huang, and Z. Zhao, "Opportunistic Mobile Data Offloading with Deadline Constraints," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 28, No. 12, 2017, 3584 - 3599.
30. G. Wang, Z. Wang, and J. Wu, "A Local Average Broadcast Gossip Algorithm for Fast Global Consensus Over Graphs," *Journal of Parallel and Distributed Computing*, Vol. 109, 2017, 301-309.
31. M. Z. A Bhuiyan, J. Wu, G. Wang, T. Wang, and M. Hassan, "e-Sampling: Event-Sensitive Autonomous Adaptive Sensing and Low-Cost Monitoring in Networked Sensing Systems," *ACM Transactions on Autonomous and Adaptive Systems*, Vol. 12, 2017, 1-29.
32. E. Wang, Y. Yang, and J. Wu, "Energy Efficient Beaconing Control Strategy Based on Time-Continuous Markov Model in DTNs," *IEEE Transactions on Vehicular Technology*, Vol. 66, 2017, 7411-7421.
33. H. Zheng, N. Wang, and J. Wu, "Minimizing Deep Sea Data Collection Delay with Autonomous underwater Vehicles," *IEEE Transactions on Services Computing*, Vol. 104, 2017, 99-113.
34. F. Huang, Y. Zhang, D. Li, J. Wu, K. Ren, D. Guo, J. Li, and X. Lu, "meGautz: A High Capacity, Fault-tolerant and Traffic Isolated Modular Datacenter Network," *IEEE Transactions on Services Computing*, Vol. 13, 2017, 1-13.

35. Y. Tian, W. Wang, J. Wu, Q. Kou, Z. Song, and E. Nagi, "Privacy Preserving Social Tie Discovery Based on Cloaked Human Trajectories," *IEEE Transactions on Services Computing*, Vol. 66, 2017, 1619-1630.
36. P. Ostovari, A. Khreishah, and J. Wu, "Cooperative Internet Access using Helper Nodes and Opportunistic Scheduling," *IEEE Transactions on Vehicular Technology*, Vol. 66, 2017, 6439-6448.
37. X. Liu, B. Xiao, K. Li, A. Liu, J. Wu, X. Xie, and H. Qi, "RFID Estimation with Blocker Tags," *IEEE Transactions on Networking*, Vol. 25, 2017, 224-237.
38. X. Liu, X. Xie, K. Li, B. Xiao, J. Wu, H. Qi, and D. Lu, "Fast Tracking the Population of Key Tags in Large-scale Anonymous RFID Systems," *IEEE Transactions on Networking*, Vol. 25, 2017, 278-291.
39. H. Zheng and J. Wu, "Up-and-Down Routing through Nested Core-periphery Hierarchy in Mobile Opportunistic Social Networks," *IEEE Transactions on Vehicular Technology*, Vol. 66, 2017, 4300-4314.
40. M. Z. A Bhuiyan, G. Wang, J. Wu, J. Cao, X. Liu, and T. Wang, "Dependable Structural Health Monitoring Using Wireless Sensor Networks," *IEEE Transactions on Dependable and Secure Computing*, Vol. 14, 2017, 363-376.
41. M. Z. A Bhuiyan, J. Wu, G. Wang, J. Cao, and W. Jiang, "Towards Cyber-Physical Systems Design for Structural Health Monitoring: Hurdles and Opportunities," *ACM Transactions on Cyber-Physical Systems*, Vol. 1, No. 4, No. 19, 2017, 1-26.
42. Q. Liu, G. Wang, F. Li, S. Yang, and J. Wu, "Preserving Privacy with Probabilistic Indistinguishability in Weighted Social Networks," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 28, 2017, 1417-1429.
43. S. Li, W. Wang, B. Zhou, J. Wang, Y. Cheng, J. Wu, "A Secure Scheme for Heterogeneous Sensor Networks," *IEEE Wireless Communications Letters*, Vol. 6, 2017, 182-185.
44. H. Zheng and J. Wu, "Effective Network Quarantine with Minimal Restrictions on Communication Activities," *IEEE Transactions on Network Science and Engineering*, Vol. 3, No. 3, 2016, 159-170.
45. B. Xie, K. Chen, G. Tan, M. Lu, Y. Liu, J. Wu, and T. He, "LIPS: A Light Intensity Based Positioning System For Indoor Environments," *ACM Transactions on Sensor Networks*, Vol. 12, No. 4, 2016, Article 28.
46. A. Gharaibeh, A. Khreishah, I. Khalil, and J. Wu, "Distributed Online En-route Caching," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 27, No. 12, 2016, 3455-3468.
47. S. Zhang, J. Wu, and S. Lu, "Distributed Workload Dissemination for Makespan Minimization in Disruption Tolerant Networks," *IEEE Transactions on Mobile Computing*, Vol. 15, No. 7, 2016, 1661-1673.
48. B. Zhou, F. Zhang, L. Wang, C. Hou, A. Anta, A. Vasilakos, Y. Wang, J. Wu, and Z. Liu, "HDEER: A Distributed Routing Scheme for Energy-Efficient Networking," *IEEE Journal on Selected Areas in Communications (JSAC)*, Vol. 34, No. 5, 2016, 1713-1727.

49. P. Ostovari, J. Wu, A. Khreishah, and N. Shroff, "Scalable Video Streaming with Helper Nodes using Random Linear Network Coding," *IEEE/ACM Transactions on Networking*, Vol. 24, No. 3, 2016, 1574-1587.
50. H. Wang, Yong Li, P. Hui, D. Jin, and J. Wu, "Saving Energy in Partially Deployed Software Defined Networks," *IEEE Transactions on Computers*, Vol. 65, No. 5, 2016, 1578-1592.
51. H. Zhou, J. Chen, H. Zheng, and J. Wu, "Energy Efficiency and Contact Opportunities Trade-off in Opportunistic Mobile Networks," *IEEE Transactions on Vehicular Technology*, Vol. 65, No. 5, 2016, 3723-3734.
52. W. Jiang, J. Wu, G. Wang, and H. Zheng, "Forming Opinions via Trusted Friends: Time-evolving Rating Prediction Using Fluid Dynamics," *IEEE Transactions on Computers*, Vol. 65, No. 4, 2016, 1211-1224.
53. E. Wang, Y. Yang, J. Wu, and W. Liu, "Phone-to-Phone Communication Utilizing WiFi Hotspot in Energy-Constrained Pocket Switched Networks," *IEEE Transactions on Vehicular Technology*, Vol. 65, No. 10, 2016, 8578-8590.
54. L. Wu, X. Du, and J. Wu, "Effective Defense Schemes for Phishing Attacks on Mobile Computing Platforms," *IEEE Transactions on Vehicular Technology*, Vol. 65, No. 8, 2016, 6678-6691.
55. G. Wang, W. Jiang, J. Wu, F. Li, and H. Zheng, "Trust Evaluation in Online Social Networks Using Generalized Network Flow," *IEEE Transactions on Computers*, Vol. 65, No. 3, 2016, 952-963.
56. L. Xie, H. Han, Q. Li, J. Wu, and S. Lu, "Efficient Protocols for Collecting Histograms in Large-Scale RFID System," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 26, No. 9, 2015, 2421-2433.
57. H. Zhou, J. Wu, H. Zhao, S. Tang, C. Chen, and J. Chen, "Incentive-Driven and Freshness-Aware Content Dissemination in Selfish Opportunistic Mobile Networks," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 26, No. 9, 2015, 2493-2505.
58. J. Zhang, X. Chen, Y. Xiang, W. Zhou, and J. Wu, "Robust Network Traffic Classification," *IEEE/ACM Transactions on Networking*, Vol. 23, No. 4, 2015, 1257-1270.
59. Md. Z. Alam Bhuiyan, G. Wang, J. Cao, and J. Wu, "Deploying Wireless Sensor Networks with Fault-Tolerance for Structural Health Monitoring," *IEEE Transactions on Computers*, Vol. 64, No. 2, 2015, 382-395.
60. S. Zhang, J. Wu, and S. Lu, "Collaborative Mobile Charging," *IEEE Transactions on Computers*, Vol. 64, No. 3, 2015, 654-667.
61. D. Li and J. Wu, "On Data Center Network Architectures for Interconnecting Dual-Port Servers," *IEEE Transactions on Computers*, Vol. 64, No. 11, 2015, 3210-3222.
62. W. Zhang, Y. Lin, S. Xiao, J. Wu, and S. Zhou, "Privacy Preserving Ranked Multi-Keyword Search for Multiple Data Owners in Cloud Computing," *IEEE Transactions on Computers*, Vol. 64, No. 6, 2015, 1-14.

63. D. Li and J. Wu, "Minimizing Energy Consumption for Frame-Based Tasks on Heterogeneous Multi-processor Platforms," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 26, No. 3, 2015, 810-823.
64. D. Tang, T. Li, J. Ren, and J. Wu, "Cost-Aware SEcure Routing (CASER) Protocol Design for Wireless Sensor Networks," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 26, No. 4, 2015, 960 - 973.
65. M. Xiao, J. Wu, and L. Huang, "Time-sensitive Utility-based Single-copy Routing in Low-duty-cycle Wireless Sensor Networks," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 26, No. 5, 2015, 1452-1465.
66. A. Khreishah, I. M. Khalil, and J. Wu, "Universal Network Coding-based Opportunistic Routing for Unicast," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 26, No. 6, 2015, 1765-1773.
67. W. Chang and J. Wu, "Progressive or Conservative: Rationally Allocate Cooperative Work in Mobile Social Networks," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 26, No. 7, 2015, 2020-2035.
68. S. Zhang, Z. Qian, Z. Luo, J. Wu, and S. Lu, "Burstiness-Aware Resource Reservation for Server Consolidation in Computing Clouds," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 27, No. 4, 2015, 964-977.
69. C. H. Liu, J. Fan, P. Hui, J. Wu, and K. K. Leung, "Towards QoI and Energy-Efficiency in Participatory Crowdsourcing," *IEEE Transactions on Vehicular Technology*, Vol. 64, No. 10, 2015, 4684-4700.
70. Y. Dai, J. Wu, and Y. Zhao, "Boundary Helps: Reliable Route Selection With Directional Antennas in Cognitive Radio Networks," *IEEE Transactions on Vehicular Technology*, Vol. 64, No. 9, 2015, 4135-4143.
71. W. Jiang, J. Wu, and G. Wang, "On Selecting Recommenders for Trust Evaluation in Online Social Networks," *ACM Transactions on Internet Technology*, Vol. 15, No. 14, 2015, 1-21.
72. E. Wang, Y. Yang, and J. Wu, "A Knapsack-based Buffer Management Strategy for Delay-tolerant Networks," *Journal of Parallel and Distributed Computing*, Vol. 86, No. 1, 2015, 1-15.
73. J. Wu and Y. Wang, "Hypercube-based Multi-path Social Feature Routing in Human Contact Networks," *IEEE Transactions on Computers*, Vol. 63, No. 2, 2014, 383-396.
74. W. Peng, F. Li, X. Zou, and J. Wu, "A Two-stage Deanonimization Attack Against Anonymized Social Networks," *IEEE Transactions on Computers*, Vol. 63, No. 2, 2014, 290-303.
75. M. Xiao, J. Wu, and L. Huang, "Community-Aware Opportunistic Routing in Mobile Social Networks," *IEEE Transactions on Computers*, Vol. 63, No. 7, 2014, 1682-1695.
76. C. Liu, Y. Pan, A. Chen, and J. Wu, "A DFA with Extended Character-set for Fast Deep Packet Inspection," *IEEE Transactions on Computers*, Vol. 63, No. 8, 2014, 1925-1937.

77. S. Zhang, Z. Qian, J. Wu, S. Lu, and L. Epstein, "Virtual Network Embedding with Opportunistic Resource Sharing," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 25, No. 3, 2014, 816-827.
78. Y. Zhao and J. Wu, "The Design and Evaluation of An Information Sharing System for Human Networks," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 25, No. 3, 2014, 796-805.
79. W. Peng, F. Li, X. Zou, and J. Wu, "Behavioral Malware Detection in Delay Tolerant Networks," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 25, No. 1, 2014, 53-63.
80. G. Wang, M. Z. Alam Bhuiyan, J. Cao, and J. Wu, "Detecting Movements of a Target Using Face Tracking in Wireless Sensor Networks," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 25, No. 4, 2014, 939-949.
81. Y. Dai, J. Wu, and C. Xin, "Efficient Virtual Backbone Construction without a Common Control Channel in Cognitive Radio Networks," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 25, No. 12, 2014, 3156-3166.
82. J. Li, Y. Li, J. Ren, and J. Wu, "Hop-by-Hop Message Authentication and Source Privacy in Wireless Sensor Networks," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 25, No. 5, 2014, 1223-1232.
83. Q. Liu, C. C. Tan, J. Wu, and G. Wang, "Towards Differential Query Services in Cost-Efficient Clouds," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 25, No. 6, 2014, 1648-1658.
84. G. Wang, W. Jiang, J. Wu, and Z. Xiong, "Fine-grained Feature-based Social Influence Evaluation in Online Social Networks," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 25, No. 9, 2014, 2286-2296.
85. G. Tan, M. Lu, F. Jiang, K. Chen, X. Huang, and J. Wu, "Bumping: A Bump-Aided Inertial Navigation Method for Indoor Vehicles Using Smartphones," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 25, No. 7, 2014, 1670-1680.
86. M. Z. Alam Bhuiyan, G. Wang, J. Cao, and J. Wu, "Sensor Placement with Multiple Objectives for Structural Health Monitoring," *ACM Transactions on Sensor Networks*, Vol. 10, No. 4, 2014, 68:1-68:45.
87. Q. Liu, G. Wang, and J. Wu, "Consistency as a Service: Auditing Cloud Consistency," *IEEE Transactions on Network and Service Management*, Vol. 11, No. 1, 2014, 25-35.
88. Z. Song, C. H. Liu, J. Wu, J. Ma, and W. Wang, "QoI-Aware Multi-Task-Oriented Dynamic Participant Selection with Budget Constraints," *IEEE Transactions on Vehicular Technology*, Vol. 63, No. 9, 2014, 4618-4632.
89. P. Ostovari, J. Wu, and A. Khreishah, "Symbol-Level Reliable Broadcasting of Sensitive Data in Error-Prone Wireless Networks," *Journal of Parallel and Distributed Computing*, Vol. 74, No. 7, 2014, 2673-2685.



90. C. Liu and J. Wu, "Fast Deep Packet Inspection with a Dual Finite Automata," *IEEE Transactions on Computers*, Vol. 62, No. 2, 2013, 310-321.
91. H. Lai, Y. Pan, C. Liu, L. Lin, and J. Wu, "Sparse Learning-to-Rank via an Efficient Primal-Dual Algorithm," *IEEE Transactions on Computers*, Vol. 62, No. 6, 2013, 1221-1233.
92. Y. Wang, W. -S. Yang, and J. Wu, "Analysis of a Hypercube-based Social Feature Multi-Path Routing in Delay Tolerant Networks," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 24, No. 9, 2013, 1706-1716.
93. J. Fan, J. Chen, Y. Du, W. Gao, J. Wu, and Y. Sun, "Geo-Community-Based Broadcasting for Data Dissemination in Mobile Social Networks," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 24, No. 4, 2013, 734-743.
94. D. Guo, H. Jin, T. Chen, J. Wu, L. Lu, D. Li, X. Zhou, "Partial Probing for Scaling Overlay Routing," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 24, No. 11, 2013, 2261-2272.
95. A. Khreishah, I. M. Khalil, and J. Wu, "Low Complexity and Provably Efficient Algorithm for Joint Inter and Intrasession Network Coding in Wireless Networks," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 24, No. 10, 2013, 2015-2024.
96. F. Xu, X. Zhu, C. C. Tan, Q. Li, G. Yan, and J. Wu, "SmartAssoc: Decentralized Access Point Selection Algorithm to Improve Throughput," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 24, No. 12, 2013, 2482-2491.
97. X. Chen, Z. Dai, W. Li, Y. Hu, J. Wu, H. Shi, and S. Lu, "ProHet: A Probabilistic Routing Protocol with Assured Delivery Rate in Wireless Heterogeneous Sensor Networks," *IEEE Transactions on Wireless Communications*, Vol. 12, No. 4, 2013, 1524-1531.
98. Y. Wang, J. Wu, and W. -S. Yang, "Cloud-based Multicasting with Feedback in Mobile Social Networks," *IEEE Transactions on Wireless Communications*, Vol. 12, No. 12, 2013, 6043-6053.
99. X. Wang, Z. Li, and J. Wu, "Joint TCP Congestion Control and CSMA Scheduling without Message Passing," *IEEE Transactions on Wireless Communications*, Vol. 12, No. 12, 2013, 6194-6204.
100. Y. Zhao and J. Wu, "Building a Reliable and High-performance Content-based Publish/subscribe System," *Journal of Parallel and Distributed Computing*, Vol. 73, No. 4, 2013, 371-382.
101. B. Zhou, J. Wang, S. Li, Y. Cheng, and J. Wu, "A Continuous Secure Scheme in Static Heterogeneous Sensor Networks," *IEEE Communications Letters*, Vol. 17, No. 9, 2013, 1868-1871.
102. Q. Liu, C. C. Tan, J. Wu, and G. Wang, "Cooperative Private Searching in Clouds," *Journal of Parallel and Distributed Computing*, Vol. 72, No. 8, 2012, 1019-1031. (**Top-25 most downloaded papers at JPDC**)
103. Q. Yuan, I. Cardei, and J. Wu, "An Efficient Prediction-based Routing in Disruption-Tolerant Networks," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 23, No. 1, 2012, 19-31.

104. Y. Li, J. Ren, and J. Wu, "Quantitative Measurement and Design of Source-Location Privacy Schemes for Wireless Sensor Networks," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 23, No. 7, 2012, 1302-1311.
105. C. Liu and J. Wu, "On Multi-copy Opportunistic Forwarding Protocols in Nondeterministic Delay Tolerant Networks," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 23, No. 6, 2012, 1121-1128.
106. Y. Zhao, J. Wu, F. Li, and S. Lu, "On Maximizing the Lifetime of Wireless Sensor Networks Using Virtual Backbone Scheduling," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 23, No. 8, 2012, 1528-1535.
107. Y. Wang and J. Wu, "A Dynamic Multicast Tree based Routing Scheme without Replication in Delay Tolerant Networks," *Journal of Parallel and Distributed Computing*, Vol. 72, No. 3, 2012, 424-436.
108. J. Y. Shi, M. Taifi, A. Khreishah, and J. Wu, "Tuple Switching Network – When Slower May Be Better," *Journal of Parallel and Distributed Computing*, Vol. 72, No. 11, 2012, 1521-1534.
109. A. Khreishah, I. M. Khalil, P. Ostovari, and J. Wu, "Flow-based XOR Network Coding for Lossy Wireless Networks," *IEEE Transactions on Wireless Communications*, Vol. 11, No. 6, 2012, 2321-2329.
110. X. Chen, N. C. Rowe, J. Wu and K. Xiong, "Improving the Localization Accuracy of Targets by Using Their Spatial-Temporal Relationships in Wireless Sensor Networks," *Journal of Parallel and Distributed Computing*, Vol. 72, No. 8, 2012, 1008-1018.
111. X. Li, J. Wu, S. Lin, and X. Du, "Channel Switching Control Policy for Wireless Mesh Networks," *Journal of Parallel and Distributed Computing*, Vol. 72, No. 10, 2012, 1295-1305.
112. Z. Li, J. Wu, J. Xie, T. Zhang, G. Chen, and Y. Dai, "Stability-Optimal Grouping Strategy of Peer-to-Peer Systems," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 22, No. 12, 2011, 2079-2087.
113. C. Liu and J. Wu, "Practical Routing in a Cyclic MobiSpace," *IEEE/ACM Transactions on Networking*, Vol. 19, No 2, 2011, 369-382.
114. D. Guo, J. Wu, Y. Liu, H. Jin, H. Chen, and T. Chen, "Quasi-Kautz Digraph for Peer-to-Peer Networks," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 22, No. 6, 2011, 1042-1055.
115. Y. Xiao, M. Peng, H. Chen, S. Ozdemir, A.V. Vasilakos, and J. Wu, "Impacts of Sensor Node Distributions on Coverage in Sensor Networks," *Journal of Parallel and Distributed Computing*, Vol. 71, No. 12, 2011, 1578-1591.
116. Z. Jiang, Z. Li, J. Wu, and N. Xiao, "Capability Information: A Cost-Effective Information Model for Multi-Hop Routing of Wireless Ad Hoc Networks in the Real Environment," *Journal of Parallel and Distributed Computing*, Vol. 71, No. 8, 2011, 1085-1097.
117. F. Li and J. Wu, "Uncertainty Modeling and Reduction in MANETs," *IEEE Transactions on Mobile Computing*, Vol. 9, No. 7, July 2010, 1035 - 1048.

118. I. Jawhar, J. Wu, and D. P. Agrawal, "Resource Scheduling in Multihop Wireless Networks Using Directional Antennas," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 21, No. 9, Sept 2010, 1240 - 1253.
119. F. Li and J. Wu, "Attack and Flee: Game Theory-based Analysis On Interactions Among Nodes in MANETs," *IEEE Transactions on Systems, Man, and Cybernetics*, Vol. 40, No. 3, June 2010, 612 - 622.
120. S. Yang and J. Wu, "Efficient Broadcasting Using Network Coding and Directional Antennas in MANETs," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 21, No. 2, February 2010, 148-161.
121. D. Guo, J. Wu, H. Chen, Y. Yuan, and X. Luo, "The Dynamic Bloom Filters," *IEEE Transactions on Knowledge and Data Engineering*, Vol. 22, No. 1, January 2010, 120-133.
122. S. Peng, W. Jia, G. Wang, J. Wu, and M. Guo, "Trusted Routing Based on Dynamic Trust Mechanism in Mobile Ad-Hoc Networks," *IEICE Transactions on Information and Systems*, Vol 93-D, No. 3, pp. 510-517, March 2010.
123. C. Liu and J. Wu, "Scalable Routing in Cyclic Mobile Networks," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 20, No. 9, September 2009, 1325-1338.
124. C. Liu and J. Wu, "Virtual-Force-Based Geometric Routing Protocol in MANETs," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 20, No. 4, April 2009, 433-445.
125. M. Lu, F. Li, and J. Wu, "Efficient Opportunistic Routing in Utility-Based Ad Hoc Networks," *IEEE Transactions on Reliability*, Vol. 58, No. 3, September 2009, 485-495.
126. S. Yang, J. Wu, and F. Dai, "Efficient Directional Network Backbone Construction in Mobile Ad Hoc Networks," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 19, No. 12, Dec. 2008, 1601-1613.
127. M. Lu, J. Yu and J. Wu, "Free-Riding on BitTorrent-like Peer-to-Peer File Sharing Systems: Modeling Analysis and Improvement," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 19, No. 7, July 2008, 954-966.
128. Z. Jiang, J. Wu, and D. Wang, "A New Fault-Information Model for Adaptive & Minimal Routing in 3-D Meshes," *IEEE Transactions on Reliability*, Vol. 57, No. 1, 2008, 954-966.
129. J. Wu, S. Yang, and F. Dai, "Iterative Local Solutions for Connected Dominating Set in Ad Hoc Wireless Networks," *IEEE Transactions on Computers*, Vol. 57, No. 5, May 2008, 702-715.
130. M. Cardei, S. Yang, and J. Wu, "Algorithms for Fault-Tolerant Topology in Heterogeneous Wireless Sensor Networks," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 19, No. 4, April 2008, 545-558.
131. J. Wu, S. Yang, and F. Dai, "Logarithmic Store-Carry-Forward Routing in Mobile Ad Hoc Networks," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 18, No. 6, June 2007.

132. S. Yang, M. Li, and J. Wu, "Scan-Based Movement-Assisted Sensor Deployment Methods in Wireless Sensor Networks," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 18, No. 7, July 2007.
133. F. Dai and J. Wu, "On Constructing  $k$ -Connected  $k$ -Dominating Set in Wireless Networks," *Journal of Parallel and Distributed Computing (JPDC)*, 2007.
134. W. Lou and J. Wu, "Towards Broadcast Reliability in Mobile Ad Hoc Networks With Double Coverage," *IEEE Transactions on Mobile Computing*, Vol. 6, No. 2, February 2007, 148-163.
135. J. Wu, W. Lou, and F. Dai, "Extended Multipoint Relays to Determine Connected Dominating Sets in MANETs," *IEEE Transactions on Computers*, Vol. 55, No. 3, March 2006, 334-347.
136. F. Dai and J. Wu, "Efficient Broadcasting in Ad Hoc Networks Using Directional Antennas," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 17, No. 4, April 2006, 335-347.
137. M. Cardei, J. Wu, and S. Yang, "Topology Control in Ad Hoc Wireless Networks using Cooperative Communication," *IEEE Transactions on Mobile Computing*, Vol. 5, No. 6, June 2006, 711-724.
138. J. Wu and F. Dai, "Mobility-Sensitive Topology Control in Mobile Ad Hoc Networks," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 17, No. 6, June 2006, 522-535.
139. J. Wu, M. Cardei, F. Dai, and S. Yang, "Extended Dominating Set and Its Applications in Ad Hoc Networks Using Cooperative Communication," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 17, No. 8, August 2006.
140. J. Wu and F. Dai, "Virtual Backbone Construction in MANETs using Adjustable Transmission Ranges," *IEEE Transactions on Mobile Computing*, Vol. 5, No. 9, September 2006, 1188-1200.
141. J. Wu and Z. Jiang, "On Constructing the Minimum Orthogonal Convex Polygon in 2-D Faulty Meshes," *IEEE Transactions on Reliability*, Vol. 54, No. 3, September 2005, 449-458.
142. J. Wu, F. Gao, Z. Li, and Y. Min, "Optimal and Reliable Communication in Hypercubes using Extended Safety Vectors," *IEEE Transactions on Reliability*, Vol. 54, No. 3, September 2005, 402-411.
143. J. Wu and F. Dai, "Efficient Broadcasting with Guaranteed Coverage in Mobile Ad-Hoc Networks," *IEEE Transactions on Mobile Computing*, Vol. 4, No. 3, May/June 2005, 1-12.
144. Q. Dai and J. Wu, "Computation of Minimal Uniform Transmission Range in Ad-Hoc Wireless Networks," *Cluster Computing*, Vol. 8, 2005, 127-133.
145. F. Dai and J. Wu, "Performance Analysis of Broadcast Protocols in Ad-Hoc Networks Based on Self-Pruning," *IEEE Transactions on Parallel and Distributed Systems*, Vol.15, No.11, Nov. 2004, 1027-1040.
146. J. Wu and F. Dai, "A Generic Distributed Broadcast Scheme in Ad-Hoc Wireless Networks," *IEEE Transactions on Computers*, Vol. 15, No. 10, Oct. 2004, 908-920.
147. F. Dai and J. Wu, "An Extended Localized Algorithm for Connected Dominating Set Formation in Ad-Hoc Wireless Networks," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 53, No. 10, Oct. 2004, 1343-1354.

148. J. Wu and F. Dai, "Mobility Control and Its Applications in Mobile Ad-Hoc Networks," *IEEE Network*, Vol.18, No.4, July/Aug. 2004, 30-35.
149. J. Shen, L. Sheng, and J. Wu, "Searching for Sorted Sequences of Kings in Tournaments," *SIAM Journal of Computing*, 32, 5, 2003, 1201-1209.
150. J. Wu, "Optimal Broadcasting in Injured Hypercubes Using Directed Safety Levels," *Journal of Parallel and Distributed Computing*, 63, 2003, 815-826.
151. J. Wu, F. Dai, X. Lin, J. Cao, and W. Jia, "An Extended Fault-Tolerant Link-State Routing Protocol in the Internet," *IEEE Transactions on Computers*. Vol. 52, No. 10, Oct. 2003, 1298-1311.
152. J. Wu, "A Fault-Tolerant and Deadlock-Free Routing Protocol in 2-D Meshes Based on Odd-Even Turn Model," *IEEE Transactions on Computers*, Vol. 52, No. 9, Sept. 2003, 1154-1169.
153. D. Xiang, A. Chen, and J. Wu, "Reliable Broadcasting in Wormhole-Routed Hypercube-Connected Networks Using Local Safety Information," *IEEE Transactions on Reliability*, 52, 2, June 2003, 245-256.
154. J. Wu and S. Olariu, "On Cost-Optimal Merge of Two Intransitive Sorted Sequences," *International Journal of Foundations of Computer Science*, Vol. 14, No. 1, Feb. 2003, 99-106.
155. L. Sheng and J. Wu, "Maximum-Shortest-Path (MSP) Is Not Optimal For a General  $N \times N$  Torus," *IEEE Transactions on Reliability*, 52, 1, March 2003, 22-25.
156. W. Lou and J. Wu, "On Reducing Broadcast Redundancy in Ad-Hoc Wireless Networks," *IEEE Transactions on Mobile Computing*, Vol. 1, No. 2, April-June 2002, 111-122.
157. J. Wu, "Extended Dominating-Set-Based Routing in Ad-Hoc Wireless Networks with Unidirectional Links," *IEEE Transactions on Parallel and Distributed Systems*, 13, 9, Sept. 2002, 866-881.
158. J. Wu, "A Distributed Formulation of Smallest Faulty Orthogonal Convex Polygons in 2-D Meshes," *Journal of Parallel and Distributed Computing*, Vol. 62, 2002, 1168-1185.
159. J. Wu, "A Fault-Tolerant Adaptive and Minimal Routing Scheme in  $n$ -D Meshes," *The Computer Journal*, Vol. 45, No. 3, 2002, 349-363.
160. F. He and J. Wu, "An Efficient Parallel Implementation of the Everglades Landscape Fire Model Using Checkpointing," *Parallel Computing*, Vol. 28, 2002, 65-82.
161. L. Sheng and J. Wu, "A Note on 'A Tight Lower Bound on the Number of Channels Required for Deadlock-Free Wormhole Routing'," *IEEE Transactions on Computers*, 49, (9), Sept. 2000, 1005.
162. S. Cang and J. Wu, "Time-Step Optimal Broadcasting in 3-D Meshes with Minimum Total Communication Distance," *Journal of Parallel and Distributed Computing*, 60, 2000, 966-997.
163. S. Q. Zheng and J. Wu, "Dual of a Complete Graph as an Interconnection Network," *Journal of Parallel and Distributed Computing*, 60, 2000, 1028-1046.

164. J. Wu, "Fault-Tolerant Adaptive and Minimal Routing in Mesh-Connected Multicomputers Using Extended Safety Levels," *IEEE Transactions on Parallel and Distributed Systems*, 11, (2), Feb. 2000, 149-159.
165. J. Wu, "Maximum-Shortest-Path (MSP): An Optimal Routing Policy for Mesh-Connected Multicomputers," *IEEE Transactions on Reliability*, 48, (3), Sept. 1999, 247-255.
166. J. Wu and G. Guo, "Fault-Tolerant Measures for  $m$ -ary  $n$ -dimensional Hypercubes Based on Forbidden Faulty Sets," *IEEE Transactions on Computers*, 47, (8), Aug. 1998, 883-887.
167. J. Wu, E. B. Fernandez, and Y. Luo, "Embedding of Binomial Trees in Hypercubes with Link Faults," *Journal of Parallel and Distributed Computing*, Vol. 54, 1998, 59-74.
168. J. Wu, "Fault-Tolerant Communication in Multiple Bus Systems," *Parallel Processing Letters*, a special issue on *Computing on Bus-Based Architectures*. Vol. 8, No. 3, 1998, 307-320,
169. J. Wu, E. B. Fernandez, and D. Dai, "Fault-Secure Scheduling," *The Computer Journal*, 41, (4), 1998, 207-222.
170. J. Wu, "Adaptive Fault-Tolerant Routing in Cube-Based Multicomputers Using Safety Vectors," *IEEE Transactions on Parallel and Distributed Systems*, 9, (4), April 1998, 321-334.
171. J. Wu, "Extended Fibonacci Cubes," *IEEE Transactions on Parallel and Distributed Systems*, 8, (12), Dec. 1997, 1203-1210.
172. J. Wu and K. Huang, "The Balanced Hypercube: A Cube-Based System for Fault-Tolerant Applications," *IEEE Transactions on Computers*, 46, (4), April 1997, 484-491.
173. J. Wu, "Reliable Unicasting in Faulty Hypercubes Using Safety Levels," *IEEE Transactions on Computers*, 46, (2), Feb. 1997, 241-247.
174. J. Wu, "Dimension-Exchange-Based Global Load Balancing in Faulty Hypercubes," *Concurrency: Practice and Experience*, 9, (1), Jan. 1997, 41-61.
175. H. Qian and J. Wu, "Enhanced Fibonacci Cubes," *The Computer Journal*, 39, (4), 1996, 331-345.
176. J. Wu and K. Yao, "Fault-Tolerant Multicasting in Hypercubes Using Limited Global Information," *IEEE Transactions on Computers*, 44, (9), Sept. 1995, 1162-1166.
177. J. Wu, "Tight Bounds on the Number of  $L$ -nodes in a Faulty Hypercube," *Parallel Processing Letters*, 5, (2), 1995, 321-328.
178. L. Brown and J. Wu, "Snooping in Fault-Tolerant Distributed Shared Memories," *Journal of Systems and Software*, May 1995, 149-166.
179. J. Wu, "Safety Level-An Efficient Mechanism for Achieving Reliable Broadcasting in Hypercubes," *IEEE Transactions on Computers*, 44, (5), May 1995, 702-705.
180. J. Wu and E. B. Fernandez, "Using Petri Nets for Determining Conversation Boundaries in Fault-Tolerant Software," *IEEE Transactions on Parallel and Distributed Systems*, 5, (10), Oct. 1994, 1106-1112.

181. J. Wu, "An Optimal Fault-Tolerant Nonredundant Broadcasting Scheme in Injured Hypercubes," *Journal of Parallel and Distributed Computing*, 22, (2), August 1994, 295-313.
182. J. Wu, E. B. Fernandez, and R. Zhang, "Some Extensions to the Lattice Model in Multilevel Computer Security," *Computers and Security*, 11, (4), 1992, 357-369.
183. J. Wu and E. B. Fernandez, "A Simplification of A Conversation Design Scheme Using Petri Nets," *IEEE Transactions on Software Engineering*, 15, (5), May 1989, 658-660.

## 4.2 Conference Proceedings

(selected from 622 referred conference articles)

1. J. Li, J. Wu, and Y. Zhu, "Selecting Optimal Mobile Users for Long-term Environmental Monitoring by Crowdsourcing," *Proc. of the IEEE/ACM International Symposium on Quality of Service (IWQoS 2019)*, June 24-25, 2019.
2. Y. Chen and J. Wu, "Network Function Deployment with Balanced Server and Link Resources in Tree Topologies," *Proc. of the 16th IEEE International Conference on Sensing, Communication and Networking (SECON 2019)*, June 10-13, 2019.
3. J. Shang and J. Wu, "Enabling Secure Voice Input on Augmented Reality Headsets using Internal Body Voice," *Proc. of the 16th IEEE International Conference on Sensing, Communication and Networking (SECON 2019)*, June 10-13, 2019.
4. Y. Duan and J. Wu, "Optimizing the Crowdsourcing-based Bike Station Rebalancing Scheme," *Proc. of the 39th IEEE International Conference on Distributed Computing Systems (ICDCS 2019)*, July 7-10, 2019.
5. S. Jiang, X. Li, and J. Wu, "Hierarchical Edge-Cloud Computing for Mobile Blockchain Mining Game," *Proc. of the 39th IEEE International Conference on Distributed Computing Systems (ICDCS 2019)*, July 7-10, 2019.
6. N. Wang, J. Wu, and H. Dai, "Bundle Charging: Wireless Charging Energy Minimization in Dense Wireless Sensor Networks," *Proc. of the 39th IEEE International Conference on Distributed Computing Systems (ICDCS 2019)*, July 7-10, 2019.
7. N. Wang, J. Wu, and H. Zheng, "Non-Submodularity and Approximability: Influence Maximization in Online Social Networks," *Proc. of the 20th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMom 2019)*, June 10-12, 2019.
8. Y. Chen and J. Wu, "Minimizing Transmission and Processing Delay in a NFV-based Network," *Proc. of the 20th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMom 2019)*, June 10-12, 2019.
9. J. Shang and J. Wu, "A Usable Authentication System using Wrist-worn Photoplethysmography Sensors on Smartwatches," *Proc. of the IEEE Conference on Communications and Network Security (CNS 2019)*, June 10-12, 2019.

10. J. Su, C. Fu, G. Kayas, L. Luo, Q. Zeng, X. Du, C. Tan, and J. Wu, "A Multiversion Programming Inspired Approach to Detecting Audio Adversarial Examples," *Proc. of the 49th IEEE/IFIP International Conference on Dependable Systems and Networks (DSN 2019)*, June 24-27, 2019.
11. S. Jiang and J. Wu, "2-Dominant Resource Fairness: Fairness-Efficiency Tradeoffs in Multi-resource Allocation," *Proc. of the 37th IEEE International Performance Computing and Communications Conference (IPCCC 2018)*, November 17-19, 2018.
12. P. Ostovari, J. Wu, and A. Jolfaei, "Data Exchange in Delay Tolerant Networks using Joint Inter- and Intra-Flow Network Coding," *Proc. of the 37th IEEE International Performance Computing and Communications Conference (IPCCC 2018)*, November 17-19, 2018.
13. G. Lee, J. Shang, and J. Wu, "Location-leaking through Network Traffic in Mobile Augmented Reality Applications," *Proc. of the 37th IEEE International Performance Computing and Communications Conference (IPCCC 2018)*, November 17-19, 2018.
14. R. Biswas and J. Wu, "Cost-Efficient Resource Provisioning in Delay-Sensitive Cooperative Fog Computing," *Proc. of the 24th International Conference on Parallel and Distributed Systems (ICPADS 2018)*, December 11-13, 2018.
15. S. Lu, J. Wu, Y. Duan, N. Wang, and Z. Fang, "Cost-Efficient Resource Provisioning in Delay-Sensitive Cooperative Fog Computing," *Proc. of the 24th International Conference on Parallel and Distributed Systems (ICPADS 2018)*, December 11-13, 2018.
16. J. Shang, S. Chen, and J. Wu, "SRVoice: A Robust Sparse Representation-based Liveness Detection System," *Proc. of the 24th International Conference on Parallel and Distributed Systems (ICPADS 2018)*, December 11-13, 2018.
17. J. Shang, S. Chen, and J. Wu, "Defending Against Voice Spoofing: A Robust Software-based Liveness Detection System," *Proc. of the 15th International Conference on Mobile Ad-hoc and Sensor Systems (MASS 2018)*, October 9-12, 2018.
18. M. Zhi, J. Wu, S. Zhang, and S. Lu, "Fast Interference-Aware Scheduling of Multiple Wireless Chargers," *Proc. of the 15th International Conference on Mobile Ad-hoc and Sensor Systems (MASS 2018)*, October 9-12, 2018.
19. B. Hao, X. Hei, X. Du, Y. Tu, and J. Wu, "Voiceprint-based Access Control for Wireless Insulin Pump Systems," *Proc. of the 15th International Conference on Mobile Ad-hoc and Sensor Systems (MASS 2018)*, October 9-12, 2018.
20. G. Gao, M. Xiao, J. Wu, H. Huang, and G. Chen, "Minimum Cost Seed Selection for Multiple Influences Diffusion in Communities," *Proc. of the 15th International Conference on Mobile Ad-hoc and Sensor Systems (MASS 2018)*, October 9-12, 2018.
21. Y. Chen, J. Wu, and B. Ji, "Virtual Network Function Deployment in Tree-structured Networks," *Proc. of the 26th International Conference on Network Protocols (ICNP 2018)*, September 24-27, 2018.



22. Y. Chen and J. Wu, "NFV Middlebox Placement with Balanced Set-up Cost and Bandwidth Consumption," *Proc. of the 47th International Conference on Parallel Processing (ICPP 2018)*, August 13-16, 2018.
23. N. Wang and J. Wu, "Optimal Cloud Instance Acquisition via IaaS Cloud Brokerage with Volume Discount," *Proc. of the IEEE/ACM International Symposium on Quality of Service (IEEE/ACM IWQoS 2018)*, June 4-6, 2018.
24. R. Zhang, S. Zhang, Z. Qian, M. Xiao, J. Wu, J. Ge, and S. Lu, "Collaborative Interactive Wireless Charging in a Cyclic Mobispace," *Proc. of the IEEE/ACM International Symposium on Quality of Service (IEEE/ACM IWQoS 2018)*, June 4-6, 2018.
25. J. Li, J. Wu, and Y. Zhu, "Data Utility Maximization When Leveraging Crowdsensing in Machine Learning," *Proc. of the IEEE/ACM International Symposium on Quality of Service (IEEE/ACM IWQoS 2018)*, June 4-6, 2018.
26. X. Zhu, J. Wu, W. Chang, G. Wang, and Q. Liu, "Authentication of Multi-dimensional Top-K Query on Untrusted Server," *Proc. of the IEEE/ACM International Symposium on Quality of Service (IEEE/ACM IWQoS 2018)*, June 4-6, 2018.
27. J. Zheng, B. Li, C. Tian, K. Foerster, S. Schmid, G. Chen, and J. Wu, "Scheduling Congestion-Free Updates of Multiple Flows with Chronicle in Timed SDNs," *Proc. of the 38th IEEE International Conference on Distributed Computing Systems (IEEE ICDCS 2018)*, July 2-5, 2018.
28. N. Wang and J. Wu, "Latency Minimization Through Optimal User Matchmaking in Multi-Party Online Applications," *Proc. of the 19th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (IEEE WOWMOM 2018)*, June 12-15, 2018.
29. Q. Liu, S. Wu, S. Pei, J. Wu, T. Peng, and G. Wang, "Secure and Efficient Multi-Attribute Range Queries based on Comparable Inner Product Encoding," *Proc. of the IEEE Conference on Communications and Network Security (IEEE CNS 2018)*, May 30-June 1, 2018.
30. C. Song, J. Wu, X. Chen, S. Lei, and M. Liu, "Towards the Partitioning Problem in Software-Defined IoT Networks for Urban Sensing," *Proc. of the IEEE International Conference on Pervasive Computing and Communications (IEEE Percom 2018)*, March 19-23, 2018.
31. B. Zhou, J. Wu, L. Wang, F. Zhang, and Z. Liu, "Online Flow Scheduling with Deadline for Energy Conservation in Data Center Networks," *Proc. of the 23rd IEEE International Conference on Parallel and Distributed Systems (IEEE ICPADS 2017)*, December 15-17, 2017.
32. S. Lu and J. Wu, "Elastic Scaling of Virtual Clusters in Cloud Data Center Networks," *Proc. of the 36th International Performance Computing and Communications Conference (IEEE IPCCC 2017)*, December 10-12, 2017.
33. B. Zhou, J. Wu, F. Zhang, and Z. Liu, "Resource Optimization for Survivable Embedding of Virtual Clusters in Cloud Data Centers," *Proc. of the 36th International Performance Computing and Communications Conference (IEEE IPCCC 2017)*, December 10-12, 2017.

34. Y. Chen and J. Wu , “Link-Based Fine Granularity Flow Migration in SDNs to Reduce Packet Loss, ” *Proc. of the 36th International Performance Computing and Communications Conference (IEEE IPCCC 2017)*, December 10-12, 2017. (**Nominated for the best paper award**)
35. H. Li, J. Wu, Z. Jiang, and Y. Zhuang , “Integrated Recovery and Task Allocation for Stream Processing, ” *Proc. of the 36th International Performance Computing and Communications Conference (IEEE IPCCC 2017)*, December 10-12, 2017.
36. X. Li, J. Wu, Z. Qian, S. Tang, and S. Lu , “Towards Location-aware Joint Job and Data Assignment in Cloud Data Centers with NVM, ” *Proc. of the 36th International Performance Computing and Communications Conference (IEEE IPCCC 2017)*, December 10-12, 2017.
37. Y. Zhang, L. Xie, Y. Bu, Y. Wang, S. Lu, and J. Wu, “3-Dimensional Localization via RFID Tag Array,” *Proc. of the 14th International Conference on Mobile Ad-hoc and Sensor Systems (MASS 2017)*, October 22-25, 2017.
38. H. Zheng and J. Wu, “Cooperative Wireless Charging Vehicle Scheduling,” *Proc. of the 14th International Conference on Mobile Ad-hoc and Sensor Systems (MASS 2017)*, October 22-25, 2017.
39. J. Shang and J. Wu, “A Robust Sign Language Recognition System with Sparse Labeled Instances Using Wi-Fi Signals,” *Proc. of the 14th International Conference on Mobile Ad-hoc and Sensor Systems (MASS 2017)*, October 22-25, 2017.
40. H. Chen, L. Liao, H. Jin, and J. Wu, “The Dynamic Cuckoo Filter,” *Proc. of the 2017 IEEE International Conference of Network Protocols (ICNP 2017)*, October 10-13, 2017.
41. K. Sakai, M. Sun, W. Ku, and J. Wu, “A Framework for Anonymous Routing in Delay Tolerant Networks,” *Proc. of the 2017 IEEE International Conference of Network Protocols (ICNP 2017)*, October 10-13, 2017.
42. N. Wang and J. Wu, “Coverage and Workload Cost Balancing in Spatial Crowdsourcing,” *Proc. of the 2017 IEEE Ubiquitous Intelligence and Computing (UIC 2017)*, August 4 - 7, 2017.
43. P. Ostovari and J. Wu, “Fault-Tolerant and Secure Data Transmission Using Random Linear Network Coding,” *Proc of the International Conference on Computer Communications and Networks (ICCCN 2017)*, July 31 - August 3, 2017.
44. H. Zheng and J. Wu, “Friend Recommendation in Online Social Networks: Perspective of Social Influence Maximization,” *Proc. of the International Conference on Computer Communications and Networks (ICCCN 2017)*, July 31 - August 3, 2017.
45. X. Du, L. Wu, J. Wu, and B. Song, “Achieving Fair Spectrum Allocation for Co-Existing Heterogeneous Secondary User Networks,” *Proc. of the International Conference on Computer Communications and Networks (ICCCN 2017)*, July 31 - August 3, 2017.
46. J. Xie, D. Guo, Z. Hu, J. Wu, T. Chen, H. Chen, “Reliable Multicast Routing with Uncertain Sources,” *Proc. of the 2017 IEEE/ACM International Symposium on Quality of Service (IWQoS 2017)*, June 14 - 16, 2017.

47. Q. Liu, X. Nie, X. Liu, T. Peng, and J. Wu, "Verifiable Ranked Search over Dynamic Encrypted Data in Cloud Computing," *Proc. of the 2017 IEEE/ACM International Symposium on Quality of Service (IWQoS 2017)*, June 14 - 16, 2017.
48. W. Cheng, H. Zheng, and J. Wu, "On the RSU-based Secure Distinguishability Among Vehicular Flows," *Proc. of the 2017 IEEE/ACM International Symposium on Quality of Service (IWQoS 2017)*, June 14 - 16, 2017.
49. J. Wu, "Uncovering the Useful Structures of Complex Networks in Socially-Rich and Dynamic Environments," *Proc. of the 37th IEEE International Conference on Distributed Computing (ICDCS 2017) - Blue-Sky Ideas/Vision Track*, June 5 - 8, 2017.
50. H. Zheng and J. Wu, "Online to Offline Business: Urban Taxi Dispatching with Passenger-Driver Matching Stability," *Proc. of the 37th IEEE International Conference on Distributed Computing (ICDCS 2017)*, June 5 - 8, 2017.
51. J. Zheng, G. Chen, S. Schmid, H. Dai, and J. Wu, "Chronus: Consistent Data Plane Updates in Timed SDNs," *Proc. of the 37th IEEE International Conference on Distributed Computing (ICDCS 2017)*, June 5 - 8, 2017.
52. W. Jiang, and J. Wu, "Active Opinion Formation in Online Social Networks," *Proc. of the 36th IEEE International Conference on Computer Communications (IEEE INFOCOM 2017)*, May 1 - 4, 2017.
53. M. Xiao, J. Wu, S. Zheng, and J. Yu, "Secret-Sharing-Based Secure User Recruitment Protocol for Mobile Crowdsensing," *Proc. of the 36th IEEE International Conference on Computer Communications (IEEE INFOCOM 2017)*, May 1 - 4, 2017.
54. M. Xiao, J. Wu, H. Huang, L. Huang, and C. Hu, "Deadline-Sensitive User Recruitment for Mobile Crowdsensing with Probabilistic Collaboration," *Proc. of the 24th IEEE International Conference on Network Protocols (IEEE ICNP 2016)*, November 8-11, 2016.
55. H. Zheng and J. Wu, "NSFA: Nested Scale-Free Architecture for Scalable Publish/Subscribe over P2P Networks," *Proc. of the 24th IEEE International Conference on Network Protocols (IEEE ICNP 2016)*, November 8-11, 2016.
56. M. Z. Alam Bhuiyan and J. Wu, "Event Detection through Differential Pattern Mining in Internet of Things," *Proc. of the 13th IEEE International Conference on Mobile Ad hoc and Sensor Systems (IEEE MASS 2016)*, October 10-13, 2016. (**Best Paper Award**)
57. E. Wang, Y. Yang, J. Wu, and W. Liu, "A Multi-Copy Delegation Forwarding Based on Short-term and Long-term Speed in DTNs," *Proc. of the 13th IEEE International Conference on Mobile Ad hoc and Sensor Systems (IEEE MASS 2016)*, October 10-13, 2016.
58. P. Ostovari, J. Wu, and A. Khreishah, "Efficient Online Collaborative Caching in Cellular Networks with Multiple Base Stations," *Proc. of the 13th IEEE International Conference on Mobile Ad hoc and Sensor Systems (IEEE MASS 2016)*, October 10-13, 2016.

59. N. Wang and J. Wu, "Mutually Exclusive Data Dissemination in the Mobile Publish/Subscribe System," *Proc. of the 13th IEEE International Conference on Mobile Ad hoc and Sensor Systems* (IEEE MASS 2016), October 10-13, 2016.
60. C. Liu and J. Wu, "Track Your Foot Step: Anchor-free Indoor Localization based on Sensing Users' Foot Steps," *Proc. of the 13th IEEE International Conference on Mobile Ad hoc and Sensor Systems* (IEEE MASS 2016), October 10-13, 2016.
61. M. Z. A Bhuiyan, and J. Wu, "Collusion Attack Detection in Networked Systems," *Proc. of the 35th Digital Avionics Systems Conference* (IEEE DASC 2016), September 25-29, 2016.
62. N. Wang, and J. Wu, "Minimizing the Subscription Aggregation Cost in the Content-based Pub/Sub System," *Proc. of the 25th IEEE International Conference on Computer Communications and Networks* (IEEE ICCCN 2016), August 1-4, 2016.
63. H. Zheng, Z. Wan, and J. Wu, "Optimizing MapReduce Framework through Joint Scheduling of Overlapping Phases," *Proc. of the 25th IEEE International Conference on Computer Communications and Networks* (IEEE ICCCN 2016), August 1-4, 2016. **(Best Paper Runner-up Award)**
64. R. Li, Q. Zheng, X. Li, and J. Wu, "A Novel Multi-Objective Optimization Scheme for Rebalancing Virtual Machine Placement," *Proc. of the IEEE International Conference on Cloud Computing* (IEEE CLOUD 2016), June 27-July 2, 2016.
65. K. Sakai, M. Sun, W. Ku, J. Wu, and F. Alanazi, "An Analysis of Onion-Based Anonymous Routing for Delay Tolerant Networks," *Proc. of the 36th IEEE International Conference on Distributed Computing Systems* (ICDCS 2016), June 27 - 30, 2016.
66. H. Zheng, W. Chang and J. Wu, "Coverage and Distinguishability Requirements for Traffic Flow Monitoring Systems," *2016 IEEE/ACM International Symposium on Quality of Service (IWQoS 2016)*, June 20-21, 2016. **(Best Paper Award)**
67. P. Ostovari, and J. Wu, "Fault Tolerant and Secure Distributed Data Storage Using Random Linear Network Coding," *Proc. of the 14th International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt 2016)*, May 9 - 13, 2016.
68. G. Gao, M. Xiao, J. Wu, H. Kai, and L. Huang, "Deadline-Sensitive Mobile Data Offloading via Opportunistic Communications," *Proc. of the IEEE International Conference on Sensing, Communication and Networking* (SECON 2016), June 27 - 30, 2016.
69. N. Wang, and J. Wu, "Opportunistic WiFi Offloading in a Vehicular Environment: Waiting or Downloading Now?" *Proc. of the 35th IEEE International Conference on Computer Communications* (IEEE INFOCOM 2016), April 10 - 15, 2016.
70. X. Liu, K. Li, J. Wu, A. Liu, X. Xin, C. Zhu, and W. Xue, "TOP-K Queries for Multi-Category RFID Systems," *Proc. of the 35th IEEE International Conference on Computer Communications* (IEEE INFOCOM 2016), April 10 - 15, 2016.

71. Y. Dai, and J. Wu, "Integration of Spectrum Database and Sensing Results for Hybrid Spectrum Access System," *Proc. of the 12th International Conference on Mobile Ad hoc and Sensor Systems (MASS 2015)*, October 19 - October 22, 2015.
72. P. Ostovari, and J. Wu, "Reliable Broadcast with Joint Forward Error Correction and Erasure Codes In Wireless Communication Networks," *Proc. of the 12th International Conference on Mobile Ad hoc and Sensor Systems (MASS 2015)*, October 19 - October 22, 2015.
73. C. Song, J. Wu, L. Lu, and M. Liu, "RTS Assisted Mobile Localization: Mitigating Jigsaw Puzzle Problem of Fingerprint Space with Extra Mile," *Proc. of the 12th International Conference on Mobile Ad hoc and Sensor Systems (MASS 2015)*, October 19 - October 22, 2015.
74. H. Huang, S. Li, L. Chen, J. Gao, A. Mamat, and J. Wu, "Dynamic Mobile Charger Scheduling in Heterogeneous Wireless Sensor Networks," *Proc. of the 12th International Conference on Mobile Ad hoc and Sensor Systems (MASS 2015)*, October 19 - October 22, 2015.
75. D. Li, J. Wu, Z. Liu and F. Zhang, "Dual-Centric Data Center Network Architectures," *Proc. of the 44th International Conference on Parallel Processing (ICPP 2015)*, September 1 - September 4, 2015.
76. W. Chang and J. Wu, "SocialVoD: a Social Feature-based P2P System," *Proc. of the 44th International Conference on Parallel Processing (ICPP 2015)*, September 1 - September 4, 2015.
77. J. Li, J. Wu, X. Yang and S. Zhong, "Optimizing MapReduce based on Locality of K-V Pairs and Overlap between Shuffle and Local Reduce," *Proc. of the 44th International Conference on Parallel Processing (ICPP 2015)*, September 1 - September 4, 2015.
78. E. Wang, Y. Yang, J. Wu and W. Liu, "A Buffer Management Strategy on Spray and Wait Routing Protocol in DTNs," *Proc. of the 44th International Conference on Parallel Processing (ICPP 2015)*, September 1 - September 4, 2015.
79. H. Zheng and J. Wu, "Snowballing Effects in Preferential Attachment: The Impact of The Initial Links," *Proc. of the 24th IEEE International Conference on Computer Communications and Networks (IEEE ICCCN 2015)*, August 3 - August 6, 2015.
80. Z. Wan, J. Wu, and H. Zheng, "Utility-based Uploading Strategy in Cloud Scenarios," *Proc. of the 24th IEEE International Conference on Computer Communications and Networks (IEEE ICCCN 2015)*, August 3 - August 6, 2015.
81. D. Li and J. Wu, "FCCell: Towards the Tradeoffs in Designing Data Center Network Architectures," *Proc. of the 24th IEEE International Conference on Computer Communications and Networks (IEEE ICCCN 2015)*, August 3 - August 6, 2015. **(Best Paper Award)**
82. P. Liu, B. Xu, Z. Jiang and J. Wu, "HAEP: Hospital Assignment for Emergency Patients in a Big City," *Proc. of the 24th IEEE International Conference on Computer Communications and Networks (IEEE ICCCN 2015)*, August 3 - August 6, 2015.
83. E. Wang, Y. Yang, and J. Wu, "Energy Efficient Phone-to-Phone Communication Based on WiFi Hotspot in PSN," *Proc. of the 24th IEEE International Conference on Computer Communications and Networks (IEEE ICCCN 2015)*, August 3 - August 6, 2015.

84. K. Sakai, M. Sun, W. Ku, J. Wu, and T. Lai, "Multi-Path-Based Avoidance Routing in Wireless Networks," *Proc. of the 35th IEEE International Conference on Distributed Computing Systems (IEEE ICDCS 2015)*, June 29 - July 2, 2015.
85. H. Zheng and J. Wu, "Optimizing Roadside Advertisement Dissemination in Vehicular Cyber-Physical Systems," *Proc. of the 35th IEEE International Conference on Distributed Computing Systems (IEEE ICDCS 2015)*, June 29 - July 2, 2015.
86. M. Xiao, H. Huang, L. Huang, W. Yang, and J. Wu, "Deadline-sensitive Opportunistic Utility-based Routing in Cyclic Mobile Social Networks," *Proc. of the 12th IEEE International Conference on Sensing, Communications, and Networking (IEEE SECON 2015)*, June 22 - June 25, 2015.
87. H. Zheng and J. Wu, "Data Collection and Event Detection in the Deep Sea with Delay Minimization," *Proc. of the 12th IEEE International Conference on Sensing, Communications, and Networking (IEEE SECON 2015)*, June 22 - June 25, 2015.
88. J. Chen, Q. Yuan, R. Du, and J. Wu, "MuCAR: A Greedy Multi-flow-based Coding-Aware Routing in Wireless Networks," *Proc. of the 12th IEEE International Conference on Sensing, Communications, and Networking (IEEE SECON 2015)*, June 22 - June 25, 2015.
89. P. Ostovari and J. Wu, "Reliable Videos Broadcast with Network Coding and Coordinated Multiple Access Points," *Proc. of the 14th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (IEEE WoWMoM 2015)*, June 14 - June 17, 2015.
90. S. Zhang, Z. Qian, F. Kong, J. Wu, and S. Lu, "P 3: Joint Optimization of Charger Placement and Power Allocation for Wireless Power Transfer," *Proc. of the 34th IEEE International Conference on Computer Communications (IEEE INFOCOM 2015)*, April 26 - May 1, 2015.
91. Y. Zhao, W. Li, J. Wu, and S. Lu, "Quantized Conflict Graphs for Wireless Network Optimization," *Proc. of the 34th IEEE International Conference on Computer Communications (IEEE INFOCOM 2015)*, April 26 - May 1, 2015.
92. X. Liu, B. Xiao, K. Li, J. Wu, A. X. Liu, H. Qi, and X. Xie, "RFID Cardinality Estimation with Blocker Tags," *Proc. of the 34th IEEE International Conference on Computer Communications (IEEE INFOCOM 2015)*, April 26 - May 1, 2015.
93. M. Xiao, J. Wu, L. Huang, Y. Wang, and C. Liu, "Multi-Task Assignment for CrowdSensing in Mobile Social Networks," *Proc. of the 34th IEEE International Conference on Computer Communications (IEEE INFOCOM 2015)*, April 26 - May 1, 2015.
94. J. Wu, P. Sabatino, J. Tsan, and Z. Jiang, "An Infrastructure-less Vehicle Counting without Disruption," *Proc. of the 43rd International Conference on Parallel Processing (ICPP)*, September 9-12, 2014.
95. D. Li and J. Wu, "Energy-Aware Scheduling for Aperiodic Tasks on Multi-core Processors," *Proc. of the 43rd International Conference on Parallel Processing (ICPP)*, September 9-12, 2014.

96. D. Li and J. Wu, "On the Design and Analysis of Data Center Network architectures for Interconnecting Dual-Port Servers," *Proc. of the 33rd IEEE International Conference on Computer Communications* (INFOCOM), April 27 - May 2, 2014.
97. X. Li, J. Wu, S. Tang, and S. Lu, "Let's Stay Together: Towards Traffic Aware Virtual Machine Placement in Data Centers," *Proc. of the 33rd IEEE International Conference on Computer Communications* (INFOCOM), April 27 - May 2, 2014.
98. W. Jiang, J. Wu, G. Wang, and H. Zheng, "FluidRating: A Time-Evolving Rating Scheme in Trust-based Recommendation Systems Using Fluid Dynamics," *Proc. of the 33rd IEEE International Conference on Computer Communications* (INFOCOM), April 27 - May 2, 2014.
99. L. Xie, H. Han, Q. Li, J. Wu, and S. Lu, "Efficiently Collecting Histograms Over RFID Tags," *Proc. of the 33rd IEEE International Conference on Computer Communications* (INFOCOM), April 27 - May 2, 2014.
100. C. Liu, Y. Pan, A. Chen, K. Bian, and J. Wu, "Scalable Opportunistic Forwarding Algorithms in Delay Tolerant Networks using Similarity Hashing," *Proc. of the 11th IEEE International Conference on Sensing, Communications and Networking* (SECON), June 30 - July 3, 2014.
101. H. Zheng, Y. Wang, and J. Wu, "Optimizing Multi-copy Two-hop Routing in Mobile Social Networks," *Proc. of the 11th IEEE International Conference on Sensing, Communications and Networking* (SECON), June 30 - July 3, 2014.
102. Y. Dai, J. Wu, and A. Daniels, "Channel Dynamics Matter: Forwarding Node Set Selection in Cognitive Radio Networks," *Proc. of the 15th International Symposium on a World of Wireless, Mobile and Multimedia Networks* (WoWMoM), June 16-19, 2014.
103. H. Zheng and J. Wu, "Up-and-Down Routing in Mobile Opportunistic Social Networks with Bloom-Filter-Based Hints," *Proc. of IEEE/ACM International Symposium on Quality of Service* (IWQoS), May 26-27, 2014.
104. Y. Wang and J. Wu, "Complex Contagions Models in Opportunistic Mobile Social Networks," *Proc. of the 23rd International Conference on Computer Communications and Networks* (ICCCN), August 4-7, 2014.
105. Y. Dai and J. Wu, "Hitchhiking in Cognitive Radio Networks : Spectrum Sensing Assisted By Cores and Cluster," *Proc. of the 23rd International Conference on Computer Communications and Networks* (ICCCN), August 4-7, 2014.
106. P. Ostovari and J. Wu, "The Benefits of Cooperation Between the Cloud and Private Data Centers for Multi-rate Video Streaming," *Proc. of the 23rd International Conference on Computer Communications and Networks* (ICCCN), August 4-7, 2014.
107. S. Zhang, Z. Qian, J. Wu, and S. Lu, "Leveraging Tenant Flexibility in Resource Allocation for Virtual Networks," *Proc. of the 23rd International Conference on Computer Communications and Networks* (ICCCN), August 4-7, 2014.

108. C. Liu, Y. Pan, J. Zhang, M. Xiao, A. Chen, and J. Wu, "A Utility-based Multi-copy Forwarding Algorithm in Delay Tolerant Networks," *Proc. of the 23rd International Conference on Computer Communications and Networks (ICCCN)*, August 4-7, 2014.
109. L. Wu, X. Du, and J. Wu, "MobiFish: A Lightweight Anti-Phishing Scheme for Mobile Phones," *Proc. of the 23rd International Conference on Computer Communications and Networks (ICCCN)*, August 4-7, 2014.
110. Z. Jiang, J. Wu, and P. Sabatino, "GUI: GPS-Less Traffic Congestion Avoidance in Urban Areas with Inter-Vehicular Communication," *Proc. of the 11th IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)*, October 28-30, 2014.
111. A. Gharaibeh, A. Khreishah, I. Khalil, and J. Wu, "Asymptotically-Optimal Incentive-Based En-Route Caching Scheme," *Proc. of the 11th IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)*, October 28-30, 2014.
112. H. Zheng and J. Wu, "Fast Information Cascade Prediction Through Spatiotemporal Decompositions," *Proc. of the 11th IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)*, October 28-30, 2014.
113. N. Wang and J. Wu, "A General Data and Acknowledgement Dissemination Scheme in Mobile Social Networks," *Proc. of the 11th IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)*, October 28-30, 2014.
114. J. Wu, M. Xiao, and L. Huang, "Homing Spread: Community Home-based Multi-copy Routing in Mobile Social Networks," *Proc. of the 32nd IEEE International Conference on Computer Communications (INFOCOM)*, April 2013.
115. Y. Dai, J. Wu, and C. Xin, "Virtual Backbone Construction for Cognitive Radio Networks without Common Control Channel," *Proc. of the 32nd IEEE International Conference on Computer Communications (INFOCOM)*, April 2013.
116. M. Xiao, J. Wu, C. Liu, and L. Huang, "TOUR: Time-sensitive Opportunistic Utility-based Routing in Delay Tolerant Networks," *Proc. of the 32nd IEEE International Conference on Computer Communications (INFOCOM)*, April 2013.
117. Q. Liu, G. Wang, F. Li, S. Yang, and J. Wu, "Outsourcing Privacy-Preserving Social Networks to a Cloud," *Proc. of the 32nd IEEE International Conference on Computer Communications (INFOCOM)*, April 2013.
118. Y. Zhao and J. Wu, "Dache: A Data Aware Caching for Big-Data Applications Using The MapReduce Framework," *Proc. of the 32nd IEEE International Conference on Computer Communications (INFOCOM) (Mini-Conference)*, April 2013.
119. S. Tang and J. Wu, "Qute: Quality-of-Monitoring Aware Sensing and Routing Strategy in Wireless Sensor Networks," *Proc. of the 14th ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)*, Jul 29 - Aug 1, 2013.



120. Y. Dai and J. Wu, "Whether and When to Share: Spectrum Sensing as An Evolutionary Game," *Proc. of the 8th International Conference on Cognitive Radio Oriented Wireless Networks (CROWNCOM)*, July 8-10, 2013.
121. Y. Dai and J. Wu, "Sense in Order: Channel Selection for Sensing in Cognitive Radio Networks," *Proc. of the 8th International Conference on Cognitive Radio Oriented Wireless Networks (CROWNCOM)*, July 8-10, 2013.
122. Md. Z. Alam Bhuiyan, G. Wang, J. Cao, and J. Wu, "Energy and Bandwidth-Efficient Wireless Sensor Networks for Monitoring High-Frequency Events," *Proc. of the 10th IEEE International Conference on Sensing, Communication, and Networking (SECON)*, June 2013.
123. P. Ostovari, J. Wu, and A. Khreishah, "Efficient Symbol-Level Transmission in Error-Prone Wireless Networks," *Proc. of the 14th International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM)*, June 2013.
124. Y. Wang and J. Wu, "Social-Tie-Based Information Dissemination in Mobile Opportunistic Social Networks," *Proc. of the 14th International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM)*, June 2013.
125. H. Zhou, H. Zheng, J. Wu, and J. Chen, "Energy-efficient Contact Probing in Opportunistic Mobile Networks," *Proc. of the 22nd International Conference on Computer Communications and Networks (ICCCN)*, July 30 - August 2, 2013.
126. H. Zheng, K. Li, C. C. Tan, and J. Wu, "User-based CPU Verification Scheme for Public Cloud Computing," *Proc. of the 6th IEEE International Conference on Cloud Computing (CLOUD)*, June 27-July 2, 2013.
127. W. Peng, F. Li, L. J. Han, X. Zou, and J. Wu, "T-dominance: Prioritized Defense Deployment for BYOD Security," *Proc. of the First IEEE Conference on Communications and Network Security (CNS)*, October 14-16, 2013.
128. Y. Dai and J. Wu, "Boundary Helps: Efficient Routing Protocol using Directional Antennas in Cognitive Radio Networks," *Proc. of the 10th IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)*, October 14-16, 2013.
129. P. Ostovari, A. Khreishah, and J. Wu, "Multi-Layer Video Streaming with Helper Nodes using Network Coding," *Proc. of the 10th IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)*, October 14-16, 2013.
130. S. Yang and J. Wu, "Adaptive Backbone-based Routing in Delay Tolerant Networks," *Proc. of the 10th IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)*, October 14-16, 2013.
131. W. Peng, F. Li, X. Zou, and J. Wu, "The Virtue of Patience: Offloading Topical Cellular Content through Opportunistic Links," *Proc. of the 10th IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)*, October 14-16, 2013.

132. H. Zhou, J. Wu, H. Zhao, S. Tang, C. Chen, and J. Chen, "Incentive-Driven and Freshness-Aware Content Dissemination in Selfish Opportunistic Mobile Networks," *Proc. of the 10th IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)*, October 14-16, 2013.
133. Y. Yin, L. Xie, J. Wu, A. V. Vasilakos, and S. Lu, "Focus and Shoot: Efficient Identification over RFID Tags in the Specified Area," *Proc. of 10th International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services (MobiQuitous)*, December 2-14, 2013. **(Best Paper Award)**
134. M. Z. Alam Bhuiyan, G. Wang, J. Cao, and J. Wu, "Local Monitoring and Maintenance for Operational Wireless Sensor Networks," *Proc. of the 11th IEEE International Symposium on Parallel and Distributed Processing with Applications (ISPA)*, Melbourne, Australia, July 16-18, 2013. **(Best Paper Award)**
135. Q. Liu, Y. Guo, J. Wu, and G. Wang, "Dynamic Grouping Strategy in Cloud Computing," *Proc. of the 2nd International Conference on Cloud and Green Computing (CGC)*, 2012. **(Received the Best Student Paper Award)**
136. W. Peng, F. Li, X. Zou, and J. Wu, "Seed and Grow: An Attack Against Anonymized Social Networks," *Proc. of the IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON)*, June 2012.
137. W. Peng, F. Li, X. Zou, and J. Wu, "A Privacy-Preserving Social-Aware Incentive System for Word-of-Mouth Advertisement Dissemination on Smart Mobile Devices," *Proc. of the IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON)*, June 2012.
138. A. Khreishah, I. M. Khalil, and J. Wu, "Universal Opportunistic Routing Scheme using Network Coding," *Proc. of the IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON)*, June 2012.
139. A. Khreishah, I. M. Khalil, and J. Wu, "Distributed Network Coding Based Opportunistic Routing for Multicast," *Proc. of 13th ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)*, June 2012.
140. N. Xiong, A. V. Vasilakos, J. Wu, Y. R. Yang, A. Rindos, and Y. Pan. "A Class of Practical Self-tuning Failure Detection Schemes for Cloud Computing Networks," *Proc. of the 26th IEEE International Parallel & Distributed Processing Symposium (IPDPS)*, May 2012.
141. W. Chang, J. Wu, and C. C. Tan, "Encounter-based Noise Cancellation For Cooperative Trajectory Mapping," *Proc. of the 10th IEEE Pervasive Computing and Communication Conference (PerCom)*, March 2012.
142. J. Wu and Y. Wang, "Social Feature-based Multi-Path Routing in Delay Tolerant Networks," *Proc. of the 31st IEEE International Conference on Computer Communications (INFOCOM)*, March 2012.
143. S. Zhang, Z. Qian, J. Wu, and S. Lu, "An Opportunistic Resource Sharing and Topology-Aware Mapping Framework for Virtual Networks," *Proc. of the 31st IEEE International Conference on Computer Communications (INFOCOM)*, March 2012.

144. Y. Li, J. Li, J. Ren, and J. Wu, "Providing Hop-by-Hop Authentication and Source Privacy in Wireless Sensor Networks," *Proc. of the 31st IEEE International Conference on Computer Communications (INFOCOM) (Mini-Conference)*, March 2012.
145. Q. Liu, C. C. Tan, J. Wu, and G. Wang, "Efficient Information Retrieval for Ranked Queries in Cost-Effective Cloud Environments," *Proc. of the 31st IEEE International Conference on Computer Communications (INFOCOM) (Mini-Conference)*, March 2012.
146. Z. Jiang, D. Wu, M. Guo, J. Wu and X. Wang, "Minimum Latency Broadcasting with Conflict Awareness in Wireless Sensor Networks," *Proc. of the 41st International Conference on Parallel Processing (ICPP)*, September 2012.
147. D. Li and J. Wu, "Energy-aware Scheduling for Fame-based Tasks on Heterogeneous Multiprocessor Platforms," *Proc. of the 41st International Conference on Parallel Processing (ICPP)*, September 2012.
148. M. Xiao, J. Wu, and L. Huang, "Time-Sensitive Utility-Based Routing in Duty-Cycle Wireless Sensor Networks with Unreliable Links," *Proc. of the 31st International Symposium on Reliable Distributed Systems (SRDS)*, October 2012.
149. Z. Jiang, J. Wu, M. Guo, Z. Zhao, and D. Wu, "A Quick and Reliable Routing for Infrastructure Surveillance with Wireless Sensor Networks," *Proc. of the 31st International Symposium on Reliable Distributed Systems (SRDS)*, October 2012.
150. S. Zhang, J. Wu, and S. Lu, "Collaborative Mobile Charging for Sensor Networks," *Proc. of the 9th IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)*, October 2012. (**Best Paper Runner-up Award**)
151. Y. Zhao and J. Wu, "Towards Approximate Event Processing in A Large-Scale Content-Based Network," *Proc. of the 31st International Conference on Distributed Computing Systems (ICDCS)*, June 2011.
152. Y. Zhao and J. Wu, "On the Construction of the Minimum Cost Content-Based Publish/Subscribe Overlays," *Proc. of the 8th Annual IEEE Communications Society Conference on Sensor, Mesh and Ad-Hoc Communications and Networks (SECON)*, June 2011.
153. Y. Wang, Y. Guo, and J. Wu, "Making Many People Happy: Greedy Solutions for Content Distribution," *Proc. of 2011 International Conference on Parallel Processing (ICPP)*, September 2011.
154. C. Liu, A. Chen, D. Wu, J. Zhang, and J. Wu, "A DFA with Extended Character-set for Fast Deep Packet Inspection," *Proc. of 2011 International Conference on Parallel Processing (ICPP)*, September 2011.
155. Y. Dai and J. Wu, "Efficient Channel Assignment Under Dynamic Source Routing in Cognitive Radio Networks," *Proc. of the 8th IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)*, October 2011.

156. A. Khreishah, I. M. Khalil, and J. Wu, "Polynomial Time and Provably Efficient Network Coding Scheme for Lossy Wireless Networks," *Proc. of the 8th IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)*, October 2011.
157. W. Peng, F. Li, X. Zou, and J. Wu, "Behavioral Detection and Containment of Proximity Malware in Delay Tolerant Networks," *Proc. of the 8th IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)*, October 2011.
158. X. Zhang, H. Gong, M. Liu, S. Lu, and J. Wu, "Quantitative Analysis of the Effect of Transmitting Power on the Capacity of Wireless Ad Hoc Networks," *Proc. of the 11th ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)*, September 2010.
159. Y. Wang, K. Li, and J. Wu, "Distance Estimation by Constructing the Virtual Ruler in Anisotropic Sensor Networks," *Proc. of the 28th Annual Joint Conf. of IEEE Communication and Computer Society (INFOCOM)*, March 2010.
160. F. Li, Y. Yang, and J. Wu, "CPMC: An Efficient Proximity Malware Coping Scheme in Smartphone-based Mobile Networks," *Proc. of the 28th Annual Joint Conf. of IEEE Communication and Computer Society (INFOCOM)*, March 2010.
161. F. Xu, C. Tan, Q. Li, G. Yan, and J. Wu, "Designing a Better Access Point Association Protocol," *Proc. of the 28th Annual Joint Conf. of IEEE Communication and Computer Society (INFOCOM)*, March 2010.
162. Y. Zhao, F. Li, J. Wu, and S. Lu, "VBS: Maximum Lifetime Sleep Scheduling for Wireless Sensor Networks Using Virtual Backbones," *Proc. of the 28th Annual Joint Conf. of IEEE Communication and Computer Society (INFOCOM) (Mini-Conference)*, March 2010.
163. Y. Zhao and J. Wu, "B-Sub: A Practical Bloom-Filter-Based Publish-Subscribe System for Human Networks," *Proc. of the 30th International Conference on Distributed Computing Systems (ICDCS)*, June 2010.
164. Z. Xiao, Y. Xiao, and J. Wu, "A Quantitative Study of Accountability in Wireless Multi-hop Networks," *Proc. of the 39th International Conference on Parallel Processing (ICPP)*, September 2010.
165. Z. Jiang, J. Wu, and R. Ito, "A Metric for Routing in Delay-Sensitive Wireless Sensor Networks," *IEEE of the 7th IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)*, November 2010. (**Best Paper Award**)
166. X. Li and J. Wu, "Channel On Demand: Optimal Capacity for Cooperative Multi-channel Multi-interface Wireless Mesh Networks," *IEEE of the 7th IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)*, November 2010.
167. J. Wu and Y. Wang, "A Non-Replication Multicasting Scheme in Delay Tolerant Networks," *IEEE of the 7th IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)*, November 2010.

168. L. Xie, Q. Li, W. Mao, J. Wu, and D. Chen, "Achieving Efficiency and Fairness for Association Control in Vehicular Networks," *Proc. of the 17th IEEE International Conference on Network Protocols (ICNP)*, October 2009.
169. C. Liu and J. Wu, "An Optimal Probabilistically Forwarding Protocol in Delay Tolerant Networks," *Proc. of the 10th ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)*, May 2009.
170. Q. Yuan, I. Cardei, and J. Wu, "Predict and Relay: An Efficient Routing in Disruption-Tolerant Networks," *Proc. of 10th ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)*, 2009, 95-104.
171. F. Li and J. Wu, "MOPS: Providing Content-based Service in Disruption-tolerant Networks," *Proc. of the 29th International Conference on Distributed Computing Systems (ICDCS)*, June 2009.
172. M. Lu and J. Wu, "Erasure-Coding Based Utility Routing in Multi-hop Wireless Networks," *Proc. of the 6th IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)*, October 2009.
173. C. Liu, J. Wu, and I. Cardei, "Message Forwarding in Cyclic MobiSpace: The Multi-copy Case," *Proc. of the 6th IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)*, October 2009.
174. G. Chen, Z. Li, J. Wu, and J. Xi, "On Maximum Stability with Enhanced Scalability in High-Churn DHT Deployment", *Proc. of IEEE International Conference on Parallel Processing (ICPP)*, September 2009.
175. F. Li, A. Srinivasan, and J. Wu, "Thwarting Blackhole Attacks in Disruption-Tolerant Networks using Encounter Tickets," *Prof. of the 27th Annual Joint Conf. of IEEE Communication and Computer Society (INFOCOM)*, 2009.
176. M. Li and J. Wu, "Opportunistic Routing Algebra and Its Applications," *Prof. of the 27th Annual Joint Conf. of IEEE Communication and Computer Society (INFOCOM)*, 2009.
177. C. Liu and J. Wu, "Efficient Geometric Routing in Three Dimensional Ad Hoc Networks," *Proc. of the 27th Annual Joint Conf. of IEEE Communication and Computer Society (INFOCOM) (Mini-Conference)*, 2009.
178. C. Liu and J. Wu, "Routing in a Cyclic MobiSpace," *Proc. of the 9th ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)*, 2008.
179. Z. Jiang and J. Wu, "A Hierarchical Structure based Coverage Repair in Wireless Sensor Networks," *Proc. of IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC)*, 2008.
180. J. Wu, M. Lu, and F. Li, "Utility-Based Opportunistic Routing in Multi-hop Wireless Networks," *Proc. of the 28th International Conference on Distributed Computing Systems (ICDCS)*, 2008.

181. Y. Wang and J. Wu, "A Nonblocking Approach for Reaching an Agreement on Request Total Orders," *Proc. of the 28th International Conference on Distributed Computing Systems (ICDCS)*, 2008.
182. J. Wu, S. Yang, and M. Cardei, "On Maintaining Sensor-Actor Connectivity in Wireless Sensor and Actor Networks," *Proc. of the 26th Annual Joint Conf. of IEEE Communication and Computer Society (INFOCOM)*, 2008.
183. Z. Jiang, J. Ma, and W. Lou, and J. Wu, "An Information Model for Geographic Greedy Forwarding in Wireless Ad Hoc Sensor Networks," *Proc. of the 26th Annual Joint Conf. of IEEE Communication and Computer Society (INFOCOM)*, 2008.
184. J. Wu, S. Yang, and M. Cardei, "Efficient Broadcast in MANETs Using Network Coding and Directional Antennas," *Proc. of the 26th Annual Joint Conf. of IEEE Communication and Computer Society (INFOCOM)*, 2008.
185. Q. Yuan and J. Wu, "DRIP: A Dynamic Voronoi Regions-Based Publish/Subscribe Protocol in Mobile Computing," *Proc. of the 26th Annual Joint Conf. of IEEE Communication and Computer Society (INFOCOM)*, 2008.
186. C. Liu and J. Wu, "Scalable Routing in Delay Tolerant Networks," *Proc. of ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)*, 2007.
187. J. Wu and S. Yang, "Polylogarithmic Store-Carry-Forward Routing using Mobile Nodes," *Proc. of IEEE Mobile Ad-Hoc and Sensor Systems (MASS)*, 2007.
188. M. Cardei, S. Yang, and J. Wu, "Fault-Tolerant Topology Control Algorithms for Heterogeneous Wireless Sensor Networks," *Proc. of IEEE Mobile Ad-Hoc and Sensor Systems (MASS)*, 2007.
189. C. Liu and J. Wu, "Destination-Region-Based Local Minimum Aware Geometric Routing," *Proc. of IEEE Mobile Ad-Hoc and Sensor Systems (MASS)*, 2007.
190. M. Lu and J. Wu, "Utility-based Routing in Communication Networks with Unstable Links," *Proc. of IEEE International Conference on Computer Communications and Networks (ICCCN)*, 2007. (**Nominated for the Best Paper Award**)
191. W. Tang, H. Xiong, S. Zhong, and J. Wu, "Enhancing Semi-Supervised Clustering: A Feature Projection Perspective," *Proc. of ACM International Conference on Knowledge Discovery and Data Mining (SIGKDD)*, 2007.
192. D. Xiang, Y. Zhang, Y. Pan and J. Wu, "Deadlock-Free Adaptive Routing in Meshes Based on Cost-Effective Deadlock Avoidance Schemes," *Proc. of International Conference on Parallel Processing (ICPP)*, 2007.
193. J. Zhao, H. Yu, K. Zhang, W. Zheng, J. Wu, and J. Hu, "Achieving Reliability Through Replication in a Wide-Area Network DHT Storage System," *Proc. of International Conference on Parallel Processing (ICPP)*, 2007.
194. J. Wang, J. Cao, J. Li and J. Wu, "MHH: A Novel Protocol for Mobility Management in Publish/Subscribe System," *Proc. of International Conference on Parallel Processing (ICPP)*, 2007.

195. S. Yang, J. Wu, and F. Dai “Efficient Backbone Construction Methods in MANETs Using Directional Antennas,” *Proc. of IEEE International Conference on Distributed Computing Systems (ICDCS)*, June 2007.
196. F. Li and J. Wu, “Mobility Reduces Uncertainty in MANETs,” *Proc. of 26th Annual Joint Conf. of IEEE Communication and Computer Society (INFOCOM)*, May 2007.
197. D. Guo, J. Wu, H. Chen, and X. Luo, “MOORE: An Extendable Peer-to-Peer Network Based Incomplete Kautz Digraph With Constant Degree,” *Proc. of the 26th Annual Joint Conf. of IEEE Communication and Computer Society (INFOCOM)*, May 2007.
198. M. Lu and J. Wu, “Social Welfare Based Routing in Ad-Hoc Networks,” *Proc. of International Conference on Parallel Processing (ICPP)*, 2006, 211-218.
199. J. -L. Wang, J. Cao and J. Wu, “Achieving Bounded Delay on Message Delivery in Publish/Subscribe Systems,” *Proc. of International Conference on Parallel Processing (ICPP)*, 2006, 407-416.
200. D. Guo, H. Chen, X. Luo, and J. Wu, “Theory and Network Applications of Dynamic Bloom Filters,” *Proc. of the 25th Annual Joint Conf. of IEEE Communication and Computer Society (INFOCOM)*, April 2006.
201. B. Wu and J. Wu, “ $k$ -Anycast Routing Schemes for Mobile Ad Hoc Networks,” *Proc. of the 20th International Parallel and Distributed Processing Symposium (IPDPS)*, April 2006.
202. I. Jawhar and J. Wu, “Resource Allocation in Wireless Networks Using Directional Antennas,” *Proc. of the 4th IEEE International Conference on Pervasive Computing and Communications (PerCom)*, March 2006.
203. J. Wu and S. Yang, “SMART: A Scan-Based Movement-Assisted Sensor Deployment Method in Wireless Sensor Networks,” *Proc. of the 24th Annual Joint Conf. of IEEE Communication and Computer Society (INFOCOM)*, 2005.
204. D. Li, X. Lu, and J. Wu, “FusionE: A Scalable Constant Degree and Low Congestion DHT Scheme Based on Kautz Graph,” *Proc. of the 24th Annual Joint Conf. of IEEE Communication and Computer Society (INFOCOM)*, 2005.
205. F. Dai and J. Wu, “Constructing  $k$ -Connected  $k$ -Dominating Set in Wireless Networks,” *Proc. of the 19th International Parallel and Distributed Processing Symposium (IPDPS 2005)*.
206. W. Jia, W. Tu, and J. Wu, “Hierarchical Multicast Tree Algorithms for Application Layer Mesh Networks,” *Proc. of 2005 International Conference on Computer Networks and Mobile Computing (ICCNMC)*, 2005. **(Best Paper Award)**
207. J. Wu, F. Dai, and S. Yang, “Iterative Local Solutions for Connected Dominating Set in Ad-Hoc Wireless Networks,” *Proc. of the 2nd IEEE International Conference on Mobile Ad-Hoc and Sensor Systems (MASS)*, Nov. 2005.
208. S. Yang, F. Dai, M. Cardei, and J. Wu, “On Multiple Point Coverage in Wireless Sensor Networks,” *Proc. of the 2nd IEEE International Conference on Mobile Ad-Hoc and Sensor Systems (MASS)*, Nov. 2005. **(Best Paper Award)**

209. C. Li, M. Ye, G. Chen, and J. Wu, "An Energy-Efficient Unequal Clustering Mechanism for Wireless Sensor Networks," *Proc. of the 2nd IEEE International Conference on Mobile Ad-Hoc and Sensor Systems (MASS)*, Nov. 2005.
210. S. Yang, J. Wu, and J. Cao, "Connected  $k$ -Hop Clustering in Ad-Hoc Networks," *Proc. of International Conference on Parallel Processing (ICPP)*, June 2005.
211. D. Xiang, J. Sun, J. Wu and K. Thulasiraman, "Fault-Tolerant Routing in Meshes/Tori Using Planarly Constructed Fault Blocks," *Proc. of International Conference on Parallel Processing (ICPP)*, June 2005.
212. X. Li and J. Wu, "Hybrid Searching Scheme in Unstructured P2P Networks," *Proc. of International Conference on Parallel Processing (ICPP)*, June 2005.
213. Z. Jiang, J. Wu, and D. Wang, "A New Fault Information Model for Fault-Tolerant Adaptive and Minimal Routing in 3-D Meshes," *Proc. of International Conference on Parallel Processing (ICPP)*, June 2005.
214. J. Wu and W. Lou, "Extended Multipoint Relays to Determine Connected Dominating Sets in MANETS," *Proc. of the First Annual IEEE Communications Society Conference on Sensor and Ad-Hoc Communications and Networks (SECON)*, 2004.
215. M. Cardei, J. Wu, and S. Yang, "Topology Control in Ad-Hoc Wireless Networks with Hitch-Hiking," *Proc. of the First Annual IEEE Communications Society Conference on Sensor and Ad-Hoc Communications and Networks (SECON)*, 2004.
216. C. Huang, F. Dai, and J. Wu, "On-Demand Location-Aided QoS Routing in Ad-Hoc Networks," *International Conference on Parallel Processing (ICPP)*, Aug. 2004, 502-509.
217. J. Wu and F. Dai, "Mobility Management and Its Applications in Efficient Broadcasting in Mobile Ad-Hoc Networks," *Proc. of the 23rd Annual Joint Conf. of IEEE Communication and Computer Society (INFOCOM)*, 2004.
218. W. Lou and J. Wu, "Double-Covered Broadcast (DCS): A Simple Reliable Broadcast Algorithm in MANETs," *Proc. of the 23rd Annual Joint Conf. of IEEE Communication and Computer Society (INFOCOM)*, 2004.
219. M. Agarwal, J. H. Cho, L. X. Gao, and J. Wu, "Energy Efficient Broadcast in Wireless Ad-Hoc Networks with Hitch-Hiking," *Proc. of the 23rd Annual Joint Conf. of IEEE Communication and Computer Society (INFOCOM)*, 2004.
220. J. Wu and F. Dai, "A Distributed Formation of a Virtual Backbone in Ad-Hoc Networks using Adjustable Transmission Ranges," *Proc. of the 24th IEEE International Conf. on Distributed Computing Systems (ICDCS)*, 2004, 372-379. **(Nominated for the Best Paper Award)**
221. J. Wu and Z. Jiang, "On Constructing the Minimum Orthogonal Convex Polygon in 2-D Faulty Meshes," *Proc. of IEEE International Parallel and Distributed Processing Symposium (IPDPS)*, 2004.



222. J. Wu and F. Dai, "Mobility-Sensitive Topology Control in Mobile Ad-Hoc Networks," *Proc. of IEEE International Parallel and Distributed Processing Symposium (IPDPS)*, 2004.
223. J. Cao, J. Zhou, D. Chen, and J. Wu, "An Efficient Distributed Mutual Exclusion Algorithm Based on Relative Consensus Voting," *Proc. of IEEE International Parallel and Distributed Processing Symposium (IPDPS)*, 2004. (CD-ROM)
224. J. Wu and F. Dai, "Broadcasting in Ad-Hoc Networks Based on Self-Pruning," *Proc. of the 22nd Annual Joint Conf. of IEEE Communication and Computer Society (INFOCOM)*, 2003.
225. J. Wu and F. Dai, "A Generic Distributed Broadcast Scheme in Ad-Hoc Wireless Networks," *Proc. of the 23rd IEEE International Conf. on Distributed Computing Systems (ICDCS)*, May 2003, 460-467. **(Nominated for the Best Paper Award)**
226. J. Wu and F. Dai, "An Extended Link Reversal Protocol in Dynamic Networks," *Proc. of IEEE International Parallel and Distributed Processing Symposium (IPDPS)*, 2003.
227. J. Wu and F. Dai, "A Generic Broadcast Protocol in Ad Hoc Networks Based on Self-Pruning," *Proc. of IEEE International Parallel and Distributed Processing Symposium (IPDPS)*, 2003.
228. J. Cao, X. Wang, and J. Wu, "A Mobile Agent Enabled Fully Distributed Mutual Exclusion Algorithm," *Proc. of the 6th IEEE International Conference on Mobile Agents (MA02)*, Oct. 2002.
229. J. Wu and D. J. Wang, "Fault-Tolerant and Deadlock-Free Routing in 2-D Meshes Using Rectilinear-Monotone Polygonal Fault Blocks," *Proc. of the 2002 International Conference on Parallel Processing (ICPP)*, 2002, 247-256.
230. J. Wu, M. Gao, and I. Stojmenovic, "On Calculating Power-Aware Connected Dominating Sets for Efficient Routing in Ad-Hoc Wireless Networks," *Proc. of the 2001 International Conference on Parallel Processing (ICPP)*, 2001, 346-356.
231. B. Roussev and J. Wu, "Client-Server Design Alternatives: Back to Pipes but with Threads," *Proc. of the 1st International Conference on Networking (ICN'01)*, Pascal Lorenz (Ed.), Lecture Notes in Computer Science 2094, July 2001, 854-866.
232. J. Wu, "A Distributed Formation of Orthogonal Convex Polygons in Mesh-Connected Multicomputers," *Proc. of International Parallel and Distributed Processing Symposium (IPDPS)*, 2001, (CD-ROM).
233. J. Wu and H. Li, "Domination and Its Applications in Ad-Hoc Wireless Networks with Unidirectional Links," *Proc. of the 2000 International Conference on Parallel Processing (ICPP)*, Aug. 2000, 189-200.
234. J. Wu, "A Fault-Tolerant Adaptive and Minimal Routing Approach in  $n$ -D Meshes," *Proc. of the 2000 International Conference on Parallel Processing (ICPP)*, Aug. 2000, 431-438.
235. J. Wu, "On Sorting an Intransitive Total Ordered Set Using Semi-Heap," *Proc. of IEEE International Parallel and Distributed Processing Symposium (IPDPS)*, May 2000, 257-262.

236. J. Wu and H. Li, "On Calculating Connected Dominating Set for Efficient Routing in Ad-Hoc Wireless Networks," *Proc. of the 3rd International Workshop on Discrete Algorithms and Methods for Mobile Computing and Communications (Dial M)* (in conjunction with MobiCom 1999), Aug. 1999, 7-14.
237. J. Wu and Y. Yang, "Postal Network: A Versatile Interconnection Topology," *Proc. of the 1998 International Conference on Parallel Processing (ICPP)*, Aug. 1998, 612-619.
238. J. Wu, "Fault-Tolerant Adaptive and Minimal Routing in Mesh-Connected Multicomputers Using Extended Safety Levels," *Proc. of the 18th IEEE International Conf. on Distributed Computing Systems (ICDCS)*, May 1998, 428-435.
239. S. Cang and J. Wu, "Minimizing Total Communication Distance of a Broadcast on Mesh and Torus Networks," *Proc. of the 1st IEEE IPPS/SPDP*, April 1998, 11-17.
240. J. Wu, E. B. Fernandez, and Y. Luo, "Embedding of Binomial Trees in Hypercube Multiprocessors with Link Faults", *Proc. of the 1997 International Conference on Parallel Processing (ICPP)*, August 1997, 96-99.
241. S. Q. Zheng and J. Wu, "Dual of a Complete Graph as an Interconnection Network," *Proc. of the 7th IEEE International Symposium on Parallel and Distributed Processing (SPDP)*, 1996, 433-442.
242. J. Wu, "An Optimal Routing Policy for Mesh-Connected Topologies," *Proc. of the 25th International Conference on Parallel Processing (ICPP)*, August 1996, I-267-I-271.
243. J. Wu, "A Fault-Tolerant Distributed Unicasting Scheme for Cube-Based Multicomputers," *Proc. of the 16th IEEE International Conference on Distributed Computing Systems (ICDCS)*, May 1996, 166-174.
244. J. Wu, "Extended Fibonacci Cubes," *Proc. of the 7th IEEE Symposium on Parallel and Distributed Processing (SPDP)*, Oct. 1995, 248-251.
245. J. Wu, "Unicasting in Faulty Hypercubes Using Safety Levels," *Proc. of the 1995 International Conference on Parallel Processing (ICPP)*, 1995, III-132-III-136.
246. J. Wu, "Dimension-Exchange-Based Load Balancing on Injured Hypercubes," *Proc. of the 1994 International Conference on Parallel Processing (ICPP)*, August 1994, III-88-III-91.
247. L. Brown and J. Wu, "Dynamic Snooping in a Fault-Tolerant Distributed Shared Memory," *Proc. of the 14th International Conference on Distributed Computing Systems (ICDCS)*, June 1994, 218-226. **(Nominated for the Best Paper Award)**
248. J. Wu and K. Yao, "Multicasting in Injured Hypercubes Using Limited Global Information," *Proc. of the 5th IEEE Symposium on Parallel and Distributed Processing (SPDP)*, Dec. 1993, 548-555.
249. J. Wu and E. B. Fernandez, "Broadcasting in Faulty Hypercubes," *Proc. of the 11th Symposium on Reliable Distributed Systems*, IEEE, Oct. 1992, 122-129.
250. J. Wu and E. B. Fernandez, "Broadcasting in Faulty Cube-Connected Cycles with Minimum Recovery Time," *Proc. of Parallel Processing: CONPAR92*, Lecture Notes in Comp. Science 634, Springer Verlag, 1992, 833-834.

251. K. Huang and J. Wu, "Balanced Hypercubes," *Proc. of the 1992 International Conference on Parallel Processing (ICPP)*, August 1992, I-80-I-84.
252. J. Wu, "Efficient Fault-Tolerant Nonredundant Broadcasting in Hypercube Multicomputers," *Proc. of the 1992 International Conference on Parallel Processing (ICPP)*, August 1992, III-23-III-36.
253. Z. Li and J. Wu, "A Fully Fault-Tolerant Multidestination Routing Scheme in Hypercube Multiprocessors," *Proc. of the 1991 International Conference on Parallel Processing (ICPP)*, August 1991, III-290-III-291.

### 4.3 Books and Book Chapters

(selected from 4 books and 48 book chapters)

1. N. Wang and J. Wu, "Latency Minimization Through Optimal Data Placement in Fog Computing," accepted to appear in *Fog Computing: Theory and Practice*, Albert Y. Zomaya, and Assad Abbas, and Samee U. Khan (eds), Wiley, 2019.
2. C. Song and J. Wu, "Vehicular Ad-Hoc/Sensor Networks in Smart Cities," accepted to appear in *The Philosophy of Mission-Oriented Wireless Sensor Networks*, H. Ammari (ed), Springer, 2018.
3. R. Biswas and J. Wu, "Cognitive Radio Networks (CRN) Technologies and Applications," accepted to appear in *Emerging Wireless Communication and Network Technologies: Principle, Paradigm and Performance*(Chapter 2), K. Aray, R. Bhadoria, N. Chaudhari (eds), Springer Link Library, 2018.
4. W. Chang, H. Zheng, J. Wu, C. Tan, and H. Ling, "Environment-assisted Vehicular Data in Smart Cities," accepted to appear in *Smart Cities: Foundations, Principles, and Applications* (Chapter 29), H. Song, R. Srinivasau, T. Sookoor, and S. Teachke (eds), Wiley, 2017, 819-844.
5. P. Ostovari and J. Wu, "Towards Network Coding for Cyber-Physical Systems: Security Challenges and Applications," *Security and Privacy in Cyber-Physical Systems: Foundations and Applications*, H. Song, G. Fink, S. Jeschke, G. Rosner, Wiley (eds), 2017.
6. S. Zhang and J. Wu, "Mobile Collaborative Mobile Charging," *Wireless Power Transfer Algorithms, Technologies and Applications in Ad Hoc Communication Networks*, S. Nikolettseas, Y. Yang, and A. Georgiadis (eds), Springer Publisher, 2016.
7. P. Liu, B. Xu, Z. Jiang, and J. Wu, "Mobile Nodes Scheduling in MANETs for Resource Assignment: from Hospital Assignment to Energy Charging," *Advances in Computer Communications and Networks - from green, mobile, pervasive networking to big data computing*, A. Striegel, M. Song, and K. Sha (eds), River Publisher, 2016.
8. W. Chang and J. Wu, "A New View of Privacy in Social Networks: Strengthening Privacy During Propagation," *Handbook of Research on Modern Cryptographic Solutions for Computer and Cyber Security*, 28-51, B.Gupta, D.P.Agrawal, and S.Yamaguchi (eds), IGI Global.
9. W. Zhang, J. Wu, and Y. Lin, "Secure and Privacy Preserving Keyword Search Over the Large Scale Cloud Data," *Handbook of Research on Modern Cryptographic Solutions for Computer and Cyber Security*, 200-215, B.Gupta, D.P.Agrawal, and S.Yamaguchi (eds), IGI Global.

10. J. Wu and Y. Wang, *Opportunistic Mobile Social Networks*, CRC Press, 2014.
11. D. Li and J. Wu, *Energy-Aware Scheduling on Multiprocessor Platforms*, Springer Briefs in Computer Science, 2013.
12. J. Wu, *Distributed Systems Design*, CRC Press, 1999. (Chinese Edition, China Machine Press, 2001)
13. J. Wu, *Handbook of Theoretical and Algorithmic Aspects of Sensor, Ad Hoc Wireless and Peer-to-Peer Networks*, Auerbach Publications, 2006. (Flyer)(Preface) (Part I: Ad Hoc Wireless Networks) (Part II: Sensor Networks) (Part III: Peer-to-Peer Networks).
14. P. Ostovari and J. Wu, *Towards Network Coding for Cyber-Physical Systems: Security Challenges and Applications*, Security and Privacy in Cyber-Physical Systems: Foundations and Applications, H. Song, G. A. Fink, S. Jeschke, and G. L. Rosner (eds.), Wiley, 2017.
15. W. Chang, H. Zheng, J. Wu, C. C. Tan, and H. Ling, *Environment-assisted Vehicular Data in Smart City*, Smart Cities: Foundations, Principles, and Applications, H. Song, R. Srinivasan, T. Sookoor, and S. Jeschke (eds.), Wiley, 2017.
16. P. Liu, B. Xu, Z. Jiang, and J. Wu, *Mobile Nodes Scheduling in MANETs for Resource Assignment: from Hospital Assignment to Energy Charging*, Advances in Computer Communications and Networks - from Green, Mobile, Pervasive Networking to Big Data Computing, A. Striegel, M. Song, and K. Sha (eds.), River Publisher, 2016.
17. W. Chang and J. Wu, *A New View of Privacy in Social Networks: Strengthening Privacy During Propagation*, Handbook of Research on Modern Cryptographic Solutions for Computer and Cyber Security, B. B. Gupta, D. P. Agrawal, and S. Yamaguchi (eds.), IGI Global, 2015.
18. W. Zhang, J. Wu, and Y. Lin, *Secure and Privacy Preserving Keyword Search Over the Large Scale Cloud Data*, Handbook of Research on Modern Cryptographic Solutions for Computer and Cyber Security, B. B. Gupta, D. P. Agrawal, and S. Yamaguchi (eds.), IGI Global, 2015.
19. W. Chang and J. Wu, *A Survey of Sybil Attacks in Networks*, in Sensor Networks for Sustainable Development, M. Ilyas, S. S. Alwakeel, M. M. Alwakeel, and H. M. Aggoune (eds.), CRC Press, 2014.
20. P. Ostovari, J. Wu and A. Khreishah, *Network Coding Techniques for Wireless and Sensor Networks*, in The Art of Wireless Sensor Networks, Vol. 1, 129-162, H. M. Ammari (ed.), Springer, 2014.
21. X. Li and J. Wu, *Utility-Based Routing in Wireless Sensor Networks*, in The Art of Wireless Sensor Networks, Vol. 1, 235-270, H. M. Ammari (ed.), Springer, 2014.
22. B. Hurd, C. C. Tan, and J. Wu, *The Future in Mobile Multicore Computing*, in Scalable Computing: Theory and Practice, S. U. Khan, L. Wang, and A. Y. Zomaya (eds.), John Wiley & Sons, 2014.
23. C. C. Tan and J. Wu, *Security in RFID Networks and Communications*, in *Wireless Network Security: Theories and Applications*, L. Chen and J. Ji (eds.), Springer, 2013.
24. H. Quan, J. Wu, and J. Shi, *Online Social Networks and Social Network Services: A Technical Survey*, in *Handbook of Pervasive Communication*, M. Ilyas and H. Mouftah (eds.), CRC Press, 2010.

25. J. Chen and J. Wu, *A Survey on Cryptograph Applied to Secure Mobile Ad Hoc Networks and Wireless Sensor Networks*, in *Handbook of Research on Developments and Trends in Wireless Sensor Networks: From Principle to Practice*, H. Jin and W. Jiang (eds.), IGI Global, 2008.
26. Y. Shao, C. Liu, and J. Wu, *Delay Tolerant Networks in VANETs*, in the *Handbook on Vehicular Networks*, M. Weigle and S. Olariu (eds.), Taylor & Francis, March 2009.
27. M. O. Pervaiz, M. Cardei, and J. Wu, *Routing Security in Ad Hoc Wireless Networks*, in *Network Security*, S. Huang, D. MacCallum, and D. -Z. Du (eds.), Springer, 2008.
28. B. Wu, J. Chen, J. Wu, and M. Cardei, *A Survey on Attacks and Countermeasures in Mobile Ad Hoc Networks*, in *Wireless/Mobile Network Security*, Y. Xiao, X. Shen, and D. -Z. Du (eds.), Springer, 2008.
29. T. Anantvalee and J. Wu, *A Survey on Intrusion Detection in Mobile Ad Hoc Networks*, in *Wireless/Mobile Network Security*, Y. Xiao, X. Shen, and D. -Z. Du (eds.), Springer, 2008.
30. A. Srinivasan, J. Teitelbaum, H. Liang, J. Wu, and M. Cardei, *Reputation and Trust-Based Systems for Ad Hoc and Sensor Networks*, in *Algorithms and Protocols for Wireless Ad Hoc and Sensor Networks*, A. Boukerche (ed.), Wiley & Sons, 2008.
31. B. Wu, M. Cardei, and J. Wu, *A Survey of Key Management in Mobile Ad Hoc Networks*, in *Handbook of Research on Wireless Security*, J. Zheng, Y. Zhang, and M. Ma (eds.), Idea Group Inc, 2008.
32. A. Srinivasan and J. Wu, *A Survey on Secure Localization in Wireless Sensor Networks*, in *Encyclopedia of Wireless and Mobile Communications*, B. Furht (ed.), CRC Press, Taylor and Francis Group, 2008.
33. F. Li, A. Srinivasan, and J. Wu, *Security Issues in Sensor Surveillance*, in the *Handbook on Mobile Ad Hoc and Pervasive Communications*, M. Denko, American Scientific Publishers, 2007.
34. I. Cardei, C. Liu, and J. Wu, *Routing in Wireless Networks with Intermittent Connectivity*, in the *Encyclopedia of Wireless and Mobile Communications*, B. Furht (ed.), CRC Press, Taylor and Francis Group, 2007.
35. X. Li and J. Wu, *Searching Techniques in Peer-to-Peer Networks*, in *Handbook of Theoretical and Algorithmic Aspects of Ad Hoc, Sensor, and Peer-to-Peer Networks*, J. Wu (ed.), Auerbach Publications, 2006, 613-642.
36. J. Wu and F. Dai, *Mobility Control and Its Applications in Mobile Ad Hoc Networks*, in *Handbook of Algorithms for Mobile and Wireless Networking and Computing*, A. Boukerche and I. Chlamtac (eds.), CRC Press, 2005.
37. S. Yang and J. Wu, *New Technologies of Multicasting in MANETs*, in *Design and Analysis of Wireless Networks*, Y. Pan and Y. Xiao (eds), Nova Science Publishers, 2005.
38. W. Lou and J. Wu, *Localized Broadcasting in Mobile Ad Hoc Networks Using Neighbor Designation*, *Handbook of Mobile Computing*, I. Maghoub and M. Ilyas (eds.), CRC Press, 2005, 663-686.

39. M. Cardei and J. Wu, *Energy-Efficient Coverage Problems in Wireless Ad Hoc Sensor Networks*, in *Handbook of Sensor Networks*, M. Ilyas (ed.), CRC Press, 2004, 19.1-19.20.
40. X. Chen and J. Wu, *Multicasting Techniques in Mobile Ad Hoc Networks*, in *Handbook of Ad Hoc Wireless Networks*, M. Ilyas and B. Furht (eds.), CRC Press, 2002.
41. J. Wu, *Dominating-Set-Based Routing in Ad Hoc Wireless Networks*, in *Wireless Networks and Mobile Computing*, I. Stojmenovic (ed.), John Wiley & Sons, 2002, 425-450.
42. E. B. Fernandez, J. Wu, and D. R. Hancock, *A Design Method for Real-Time Object-Oriented Systems Using Communicating Real-Time State Machines*, in *Successful Software Reengineering*, S. Valenti (ed.), IRM Press, 2002, 171-185.
43. Y. Pan, C. Qiao, Y. Yang, and J. Wu, *Recent Developments in Optical Multistage Networks*, in *Optical Networks- Recent Advances*, L. Ruan and D. -Z. Du (eds.), Kluwer Academic Publisher, 2001, 151-185.

#### **4.3.1 Magazine Articles (2)**

1. 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.
2. 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 (38)**

- Keynote Speaker: On Balancing Middlebox Set-up Cost and Bandwidth Consumption in NFV,, *PVE-SDN* (in conjunction with NetSoft), 2018.
- Keynote Speaker: On Authenticated Query Processing via Untrusted Cloud Service Providers, *IEEE Trustcom*, 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* and *ISPA*, 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.
- Keynote Speaker: Mobility in Ad Hoc Wireless Networks: Friend or Foe. *2008 International Conference on Networking, Architecture, and Storage (NAS)*, July 2008.
- 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)(201)**

Nanyang Technological University (Singapore), University of Tunku Abdul Rahman (Malaysia), Rowan University, Arizona State University, University of Texas, Dallas, University of Delaware, 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, and Xavier University.

## 5 Sponsored Research

- *SpecEES: Collaborative Research: Study of the Tradeoff between Spectrum Allocation Efficiency and Operation Privacy in Dynamic Spectrum Access Systems* (Co-PI) 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) 10/18-09/21  
Supported by National Science Foundation (NSF), Arlington, VI. (\$400,000)
- *Cyber Forensics Toolkit for Machinery Control* (PI) 06/18-05/21  
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) 03/18-02/21  
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 1629746) 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) 09/14-08/19  
Supported by National Science Foundation (NSF), Arlington, VI. (\$65,000)
- *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 (12, including 9 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, and Distributed Computing.

### 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, 12/2012-06/2014  
(Currently Assistant Professor, University of Texas at Dallas)
- Chiu C. Tan, The College of William & Mary, 09/2010-06/2012  
(Currently Assistant Professor, Temple University)  
**(Ph.D. Dissertations: 26 completed and 5 in progress)**
- 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).  
(Associate Professor, Hunan University, P. R. China)
- Yunsheng Wang, "Social Feature based Routing in Delay Tolerant Networks," (Summer 2013).  
(Assistant Professor, Kettering University, Michigan, USA)
- Qin Liu, "Security in Cloud Computing with Multi-User Data Sharing," (Co-adviser, Winter 2012).  
(Assistant 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)  
(Assistant Professor, Sun Yat-sen University, P. R. China)
- Feng Li, “Uncertainty-aware Reputation System in Mobile Networks: Analysis and Applications,” (Summer 2009)  
(Associate Professor at Indiana University-Purdue University Indianapolis)
- 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).  
(Associate Professor at Purdue University at Calumet)
- Bing Wu, “Key Management in Secured Ad-Hoc Networks,” (Fall 2006).  
(Associate 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).  
(Full Professor at United Arab Emirates University, UAE)
- 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)

- P. Goyal, “Cube-Connected-Cubes Multicomputers,” (Fall 1998).
- Ke Huang, “The Balanced Hypercube and Its Applications,” (Summer 1997).
- Yiyun Wang, “A Uniform Hardware and Software Fault-Tolerant Model,” (Fall 1995).
- Larry Brown, “Fault-Tolerant Distributed Shared Memories,” (Fall 1993).

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

**(Visiting PhD Students: 15)**

**(MS Theses: 35 completed)**

## **7 Professional Service**

### **7.1 Membership Professional Societies**

- 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 Transactions on Mobile Computing (9/2018-present)
- 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 (1/2013-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. Program Committee Member: The 6th International Workshop on Mobile Applications (MobiApps), 2019.
2. Program Committee Member: The 2019 International Conference on Internet of Things and Intelligence System (IoTaIS), 2019.
3. Program Area Chair: IEEE Conference on Computer Communications (INFOCOM), 2015, 2016, 2017, 2018 and 2019.
4. Workshop General Co-chair: IEEE Global Communication Conference (GLOBECOM), 2018.
5. Steering Committee Chair: The 3rd and 4th National Workshop for REU Research in Networking and Systems, 2017 (Spring and Fall).
6. General Chair: The 45th International Conference on Parallel Processing (ICPP), 2016.
7. General Chair: IEEE Conference on Communications and Network Security (CNS), 2016.
8. Steering Committee Member: Resilience Week, August, 2015, 2016, and 2017.
9. Steering Committee: ACM Annual International Workshop on Mission-Oriented Wireless Sensor Networking (NISENET).
10. Symposium Chair: Resilient Communication Systems, Resilience week, August 2015.
11. Workshop Chair: The 1st and 2nd National Workshop for REU Research in Networking and Systems, 2014 and 2015.
12. General Chair: The 15th ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), 2014.
13. Area TPC Chair: IEEE International Conference on Network Protocols (ICNP), 2014.
14. Program Chair: CCF China National Computer Congress (CNCC), 2013.
15. Program Chair: Workshop on Security and Reliability in Transparent Computing (SRTC), 2013.
16. General Chair: The 33rd IEEE International Conference on Distributed Computing Systems (ICDCS), 2013.
17. General Co-Chair: The 12th IEEE International Symposium on Signal Processing and Information Technology (ISSPIT), 2012.
18. Co-Chair: 2011 IEEE INFOCOM Achievement Award Committee.
19. Program Co-Chair: The 30th IEEE Conference on Computer Communications (INFOCOM), 2011.
20. Program Co-Chair: International Conference on Distributed Computing and Networking (ICDCN) 2010.

21. General Co-Chair: The 6th IEEE/IFIP International Symposium on Trusted Computing and Communications (TrustCom), 2010.
22. Panel Co-Chair: The 29th IEEE Conference on Computer Communications (INFOCOM), 2010.
23. Award Chair: The 5th International Conference on Networking Architecture and Storages (NAS), 2010.
24. General Co-Chair: International Conference on Distributed Computing in Sensor Systems (DCOSS), 2009.
25. Panel Co-Chair: ACM Annual International Conference on Mobile Computing and Networking (MobiCom), 2009.
26. 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.
27. 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.
28. General Chair: The 1st ACM International Workshop on Medical-grade Wireless Networks (WiMD) (in conjunction with MobiHoc), 2009.
29. General Chair: IEEE International International Parallel & Distributed Processing Symposium (IPDPS), 2008.
30. Executive Vice Program Chair: The 28th IEEE International Conference on Distributed Computing Systems (ICDCS), 2008.
31. General Co-Chair: The 3rd International Workshop on Sensor Networks (SN 2010), in conjunction with IEEE ICDCS, 2010.
32. General Co-Chair: The International Conference on Wireless Algorithms, Systems and Applications (WASA), 2007.
33. General Co-Chair: The 5th International Symposium on Parallel and Distributed Processing and Applications (ISPA'07), 2007.
34. General Vice Chair: IEEE International International Parallel & Distributed Processing Symposium (IPDPS), 2007.
35. Program Co-Chair: Symposium on Advances in Internet, ChinaCom, 2007.
36. General Chair: The 3rd IEEE International Conference on Mobile Ad-Hoc and Sensor Systems (MASS), 2006.
37. Program Co-Chair: International Workshop on Networking, Architecture, and Storage, 2006.
38. General Vice Chair: The 2nd IEEE International Conference on Distributed Computing Sensor Systems (DCOSS), 2006.

39. General Chair: International Workshop on Wireless and Sensor Networks Security (WSNS'05) (in conjunction with MASS), 2005.
40. Program Co-Chair: The 1st International Workshop on Security and Mobility in Peer-to-Peer Systems (MPPS) (in conjunction with ICDCS), 2005.
41. Program Co-Chair: The 1st International Workshop on Ad-Hoc, Sensor and P2P Networks (AHSP) (in conjunction with ISADS), 2005.
42. Program Co-Chair: International Conference on Mobile Ad-Hoc and Sensor Networks (MSN), 2005.
43. Program Vice Chair: International Conference on Computer Networks and Mobile Computing (ICCNMC), 2005.
44. Program Chair: The 1st IEEE International Conference on Mobile Ad-Hoc and Sensor Systems (MASS), 2004.
45. General Co-Chair: The 2nd International Workshop on Mobile Distributed Computing (MDS), 2004.
46. Workshops Chair: The IEEE International Conference on Distributed Computing Systems (ICDCS), 2003.
47. General Co-Chair: The 7th International Conference on Computer Science and Informatics (ICS), 2003.
48. Program Co-Chair: The 4th and 5th Workshops on Advances in Parallel and Distributed Computational Models (in conjunction with IPDPS), 2002 and 2003.
49. Program Vice Chair: The 21th IEEE International Conference on Distributed Computing Systems (ICDCS), 2001.
50. Program Co-Chair: Workshop on Wireless Networks and Mobile Computing 2001 (in conjunction with ICPP 2001), 2001.
51. Program Vice Chair: The 29th International Conference on Parallel Processing (ICPP), 2000.
52. Program Co-Chair: The 12th ISCA International Conference on Parallel and Distributed Computing Systems (PDCS), 1999.
53. Local Arrangements Chair: The 5th IEEE International Symposium on High Performance Computer Architecture (HPCA), 1999.
54. Steering Committee Chair: The IEEE International Workshop on Wireless Security and Privacy (WiSP).
55. Steering Committee Chair: The IEEE International Workshop on Wireless and Sensor Networks Security (WSNS).
56. Steering Committee: The 1st and 2nd Workshop on Mission-Oriented Wireless Sensor Networking (MiSeNet).

57. Steering Committee: The First International Workshop on Cyber-Physical Networking Systems (CPNS) 2011.
58. Technical Program Committee: The 31st IEEE International Symposium on Reliable Distributed Systems (SRDS) 2012.
59. Technical Program Committee: The 1st, 8th and 9th IEEE IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS), 2005, 2012, and 2013.
60. Technical Program Committee: The 2011 Military Communications Conference (MILCOM) 2011.
61. Advisory Committee: The 13th and 14th ISCA International Conference on Parallel and Distributed Computing Systems (PDCS), 2000 and 2001.
62. Advisory Committee: The 18th and 21st International Conference on Advanced Information Networking and Applications (AINA), 2004 and 2007.
63. Steering Committee: IEEE International Parallel & Distributed Processing Symposium (IPDPS), 2008 and 2009.
64. Steering Committee: The 6th Workshop on Advances in Parallel and Distributed Computational Models (in conjunction with IPDPS), 2004.
65. Steering Committee: Workshop on Advances in Parallel and Distributed Computational Models (APDCM).
66. Steering Committee: International Symposium on Parallel and Distributed Processing and Application (ISPA).
67. Steering Committee: IEEE International Conference on Mobile Ad-Hoc and Sensor Systems (MASS).
68. Steering Committee: IEEE Symposium on Reliable Distributed Systems (SRDS).
69. Program Committee: The 15th International Conference on Mobile Systems and Pervasive Computing (MobiSPC), 2018.
70. Program Committee: 15th LACCEI International Multi-Conference for Engineering, Education, and Technology (LACCEI), 2017.
71. Program Committee: IEEE International Conference on Network Protocols (ICNP), 2007, 2008, 2009, 2010, 2011, 2012, and 2013.
72. Program Committee: ACM International Symposium on Mobile Ad-Hoc Networking and Computing (MobiHoc), 2006 and 2007.
73. Program Committee: The 27th IEEE Symposium on Reliable Distributed System (SRDS-27), 2008.
74. 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.
75. Program Committee: The 3rd and 4th NSF/TCPP Workshop on Parallel and Distributed Computing Education (EduPar), 2013 and 2014.

76. Program Committee: The 9th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM), 2008.
77. Program Committee: The International Conference on Parallel Processing (ICPP), 1999, 2000, 2001, 2002, 2004, 2006, and 2007.
78. 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.
79. Program Committee: The 23rd and 24th Annual Joint Conference of the IEEE Computer and Communications (INFOCOM), 2004 and 2005.
80. Program Committee: The 5th Annual IEEE International Conference on Pervasive Computing and Communications (PerCom), 2007
81. Program Committee: The IEEE Global Telecommunications Conference (GLOBECOM), 2004.
82. Program Committee: The IEEE ICC SAC Symposium Social Networking Track (ICC), 2018.
83. Program Committee: IEEE International Parallel and Distributed Processing Symposium (IPDPS), 2005.
84. Program Committee: The 10th Annual International Symposium on High Performance Computing (HPCA), 2003.
85. Organization Committee of over 100 other international conferences and workshops.

#### **7.4 Panels (10)**

1. Panelist: Fundamental Understanding and Theory of Network Systems: Resiliency, Performance, and Usability, ARO Workshop, 2017.
2. Panelist: Emerging Research Challenges in the Era of IOT, IEEE ICCCN, 2016.
3. Panelist: Networking Cyber-physical Applications in a Data-centric World, IEEE ICCCN, 2015.
4. Panelist: Mobile Cloud Computing Challenges and Potential-A Communications and Networking Perspective, IEEE INFOCOM, 2014.
5. Panelist: NSF/TCPP Curriculum on Parallel/Distributed Computing for Undergraduates, IEEE Edu-Par 2012.
6. Panelist: the Network ViewPoint of Internet of Things (IOT), IOT and Sensor Networks Forum, CNCC, 2011.
7. Panelist: Mobile and Wireless Networking, IEEE ICCCN, 2011.
8. Panel Organizer: Network Science: Hype or Reality? *ACM MobiCom*, 2009.

9. Panelist: Mobile Computing and Systems: Where is the Tofu?, *ACM MobiCom/MobiHoc*, 2007.
10. Panel Organizer: Network Systems in Challenging Environments: Hype or Reality, *IEEE INFOCOM*, 2008.
11. 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)

## 7.8 University Service

Online Education (09/2012-present)

Freeh Report (09/2012-present)

Director of CSE Graduate Programs (9/1997-8/2002)

Department TA/GA Committee (Chair, 8/2002-12/2006)

Department Personnel Committee (8/1999-12/2006)

College Personnel Committee (8/2001-12/2006, chair 11/2005-12/2006)

IEEE student advisor (9/1995-8/2002)

## 8 Professional Recognition

- 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.