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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 316 journal publications)

1. E. Wang, Y. Yang, W. Liu, X. Wang, and J. Wu, “An Efficient Prediction-Based User Recruitment for Mobile Crowdsensing,” accepted to appear in *IEEE Transactions on Mobile Computing*.
2. 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*.
3. 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.
4. 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.
5. 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*.

6. 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," accepted to appear in *IEEE Wireless Communications Letters*.
7. 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*.
8. H. Zheng and J. Wu, "Placement Optimization for Advertisement Dissemination in Smart City," accepted to appear in *IEEE Transactions on Network Science and Engineering*.
9. X. Liu, X. Du, L. Qiu, A. Liu, S. Guo, and J. Wu, "Fast Identification of Blocked RFID Tags," accepted to appear in *IEEE Transactions on Mobile Computing*.
10. 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*.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.

20. 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.
21. 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.
22. 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.
23. 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.
24. 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.
25. 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.
26. 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.
27. 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.
28. 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.
29. 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.
30. 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.
31. 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.
32. 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.
33. 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.

34. 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.
35. 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.
36. 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.
37. 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.
38. 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.
39. 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.
40. 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.
41. 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.
42. 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.
43. 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.
44. S. Zhang, J. Wu, and S. Lu, "Collaborative Mobile Charging," *IEEE Transactions on Computers*, Vol. 64, No. 3, 2015, 654-667.
45. 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.
46. 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.
47. 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.

48. 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.
49. 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.
50. 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.
51. 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.
52. 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.
53. 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.
54. 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.
55. 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.
56. 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.
57. 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.
58. W. Peng, F. Li, X. Zou, and J. Wu, "A Two-stage Deanonymization Attack Against Anonymized Social Networks," *IEEE Transactions on Computers*, Vol. 63, No. 2, 2014, 290-303.
59. 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.
60. 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.
61. 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.
62. 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.

63. 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.
64. 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.
65. 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.
66. 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.
67. 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.
68. 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.
69. 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.
70. 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.
71. 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.
72. 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.
73. 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.
74. 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.
75. 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.
76. 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.

77. 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.
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80. 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.
81. 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.
82. 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.
83. 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.
84. 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.
85. 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.
86. 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**)
87. 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.
88. 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.
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91. 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.
92. 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.
93. 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.
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95. 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.
96. 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.
97. C. Liu and J. Wu, "Practical Routing in a Cyclic MobiSpace," *IEEE/ACM Transactions on Networking*, Vol. 19, No 2, 2011, 369-382.
98. 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.
99. 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.
100. 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.
101. F. Li and J. Wu, "Uncertainty Modeling and Reduction in MANETs," *IEEE Transactions on Mobile Computing*, Vol. 9, No. 7, July 2010, 1035 - 1048.
102. 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.
103. 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.
104. 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.

105. 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.
106. 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.
107. 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.
108. 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.
109. 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.
110. 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.
111. 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.
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4.3 Books and Book Chapters

(selected from 4 books and 46 book chapters)

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3. 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.
4. 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.
5. 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.
6. 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.
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11. 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).
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41. 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 (37)

- 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)(187)

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 ISTeC, 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, Hunan University (China), 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 Wales (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

- *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: 24 completed and 7 in progress)

- 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: 16)**
- (Visiting PhD Students: 13)**
- (MS Theses: 35 completed)**

7 Professional Service

7.1 Membership Professional Societies

- Institute of Electrical and Electronics Engineering (IEEE): Computer Society (Fellow)
- Association for Computing Machinery (ACM) (Senior Member)
- Society for Computers and Their Applications (ISCA)
- Upsilon Pi Epsilon (UPE): Computing Science Honor Society

7.2 Editorial Board

- Journal of Computer Science and Technology (Lead Editor for Computer Network and Distributed Computing) (2017-2018)
- 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 - present)
- Journal of Parallel and Distributed Computing (2009 - present)
- Journal of Computer Science and Technology (A publication of the Chinese Computer Federation, 9/2002-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. Workshop General Co-chair: IEEE Global Communication Conference (GLOBECOM), 2018.
2. Program Area Chair: IEEE Conference on Computer Communications (INFOCOM), 2015, 2016, 2017, 2018 and 2019.
3. Steering Committee Chair: The 3rd and 4th National Workshop for REU Research in Networking and Systems, 2017 (Spring and Fall).
4. General Chair: The 45th International Conference on Parallel Processing (ICPP), 2016.
5. General Chair: IEEE Conference on Communications and Network Security (CNS), 2016.
6. Steering Committee Member: Resilience Week, August, 2015, 2016, and 2017.
7. Steering Committee: ACM Annual International Workshop on Mission-Oriented Wireless Sensor Networking (NISENET).
8. Symposium Chair: Resilient Communication Systems, Resilience week, August 2015.
9. Workshop Chair: The 1st and 2nd National Workshop for REU Research in Networking and Systems, 2014 and 2015.
10. General Chair: The 15th ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), 2014.
11. Area TPC Chair: IEEE International Conference on Network Protocols (ICNP), 2014.
12. Program Chair: CCF China National Computer Congress (CNCC), 2013.
13. Program Chair: Workshop on Security and Reliability in Transparent Computing (SRTC), 2013.
14. General Chair: The 33rd IEEE International Conference on Distributed Computing Systems (ICDCS), 2013.
15. General Co-Chair: The 12th IEEE International Symposium on Signal Processing and Information Technology (ISSPIT), 2012.
16. Co-Chair: 2011 IEEE INFOCOM Achievement Award Committee.
17. Program Co-Chair: The 30th IEEE Conference on Computer Communications (INFOCOM), 2011.

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

36. General Vice Chair: The 2nd IEEE International Conference on Distributed Computing Sensor Systems (DCOSS), 2006.
37. General Chair: International Workshop on Wireless and Sensor Networks Security (WSNS'05) (in conjunction with MASS), 2005.
38. Program Co-Chair: The 1st International Workshop on Security and Mobility in Peer-to-Peer Systems (MPPS) (in conjunction with ICDCS), 2005.
39. Program Co-Chair: The 1st International Workshop on Ad-Hoc, Sensor and P2P Networks (AHSP) (in conjunction with ISADS), 2005.
40. Program Co-Chair: International Conference on Mobile Ad-Hoc and Sensor Networks (MSN), 2005.
41. Program Vice Chair: International Conference on Computer Networks and Mobile Computing (ICCNMC), 2005.
42. Program Chair: The 1st IEEE International Conference on Mobile Ad-Hoc and Sensor Systems (MASS), 2004.
43. General Co-Chair: The 2nd International Workshop on Mobile Distributed Computing (MDS), 2004.
44. Workshops Chair: The IEEE International Conference on Distributed Computing Systems (ICDCS), 2003.
45. General Co-Chair: The 7th International Conference on Computer Science and Informatics (ICS), 2003.
46. Program Co-Chair: The 4th and 5th Workshops on Advances in Parallel and Distributed Computational Models (in conjunction with IPDPS), 2002 and 2003.
47. Program Vice Chair: The 21th IEEE International Conference on Distributed Computing Systems (ICDCS), 2001.
48. Program Co-Chair: Workshop on Wireless Networks and Mobile Computing 2001 (in conjunction with ICPP 2001), 2001.
49. Program Vice Chair: The 29th International Conference on Parallel Processing (ICPP), 2000.
50. Program Co-Chair: The 12th ISCA International Conference on Parallel and Distributed Computing Systems (PDCS), 1999.
51. Local Arrangements Chair: The 5th IEEE International Symposium on High Performance Computer Architecture (HPCA), 1999.
52. Steering Committee Chair: The IEEE International Workshop on Wireless Security and Privacy (WiSP).
53. Steering Committee Chair: The IEEE International Workshop on Wireless and Sensor Networks Security (WSNS).

54. Steering Committee: The 1st and 2nd Workshop on Mission-Oriented Wireless Sensor Networking (MiSeNet).
55. Steering Committee: The First International Workshop on Cyber-Physical Networking Systems (CPNS) 2011.
56. Technical Program Committee: The 31st IEEE International Symposium on Reliable Distributed Systems (SRDS) 2012.
57. Technical Program Committee: The 1st, 8th and 9th IEEE IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS), 2005, 2012, and 2013.
58. Technical Program Committee: The 2011 Military Communications Conference (MILCOM) 2011.
59. Advisory Committee: The 13th and 14th ISCA International Conference on Parallel and Distributed Computing Systems (PDCS), 2000 and 2001.
60. Advisory Committee: The 18th and 21st International Conference on Advanced Information Networking and Applications (AINA), 2004 and 2007.
61. Steering Committee: IEEE International Parallel & Distributed Processing Symposium (IPDPS), 2008 and 2009.
62. Steering Committee: The 6th Workshop on Advances in Parallel and Distributed Computational Models (in conjunction with IPDPS), 2004.
63. Steering Committee: Workshop on Advances in Parallel and Distributed Computational Models (APDCM).
64. Steering Committee: International Symposium on Parallel and Distributed Processing and Application (ISPA).
65. Steering Committee: IEEE International Conference on Mobile Ad-Hoc and Sensor Systems (MASS).
66. Steering Committee: IEEE Symposium on Reliable Distributed Systems (SRDS).
67. Program Committee: The 15th International Conference on Mobile Systems and Pervasive Computing (MobiSPC), 2018.
68. Program Committee: 15th LACCEI International Multi-Conference for Engineering, Education, and Technology (LACCEI), 2017.
69. Program Committee: IEEE International Conference on Network Protocols (ICNP), 2007, 2008, 2009, 2010, 2011, 2012, and 2013.
70. Program Committee: ACM International Symposium on Mobile Ad-Hoc Networking and Computing (MobiHoc), 2006 and 2007.
71. Program Committee: The 27th IEEE Symposium on Reliable Distributed System (SRDS-27), 2008.
72. 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.

73. Program Committee: The 3rd and 4th NSF/TCPP Workshop on Parallel and Distributed Computing Education (EduPar), 2013 and 2014.
74. Program Committee: The 9th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM), 2008.
75. Program Committee: The International Conference on Parallel Processing (ICPP), 1999, 2000, 2001, 2002, 2004, 2006, and 2007.
76. 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.
77. Program Committee: The 23rd and 24th Annual Joint Conference of the IEEE Computer and Communications (INFOCOM), 2004 and 2005.
78. Program Committee: The 5th Annual IEEE International Conference on Pervasive Computing and Communications (PerCom), 2007
79. Program Committee: The IEEE Global Telecommunications Conference (GLOBECOM), 2004.
80. Program Committee: The IEEE ICC SAC Symposium Social Networking Track (ICC), 2018.
81. Program Committee: IEEE International Parallel and Distributed Processing Symposium (IPDPS), 2005.
82. Program Committee: The 10th Annual International Symposium on High Performance Computing (HPCA), 2003.
83. 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 EduPar 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.