

Curriculum Vitae - Min Chen

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1.Short Bio:

Min Chen is a professor in School of Computer Science and Technology at Huazhong University of Science and Technology (HUST). He is Chair of IEEE Computer Society (CS) Special Technical Communities (STC) on Big Data. He was an assistant professor in School of Computer Science and Engineering at Seoul National University (SNU) from Sep. 2009 to Feb. 2012. He worked as a Post-Doctoral Fellow in Department of Electrical and Computer Engineering at University of British Columbia (UBC) for three years. Before joining UBC, he was a Post-Doctoral Fellow at SNU for one and half years. He received Best Paper Award from IEEE ICC 2012, and Best Paper Runner-up Award from QShine 2008. He serves as editor or associate editor for Information Sciences, Wireless Communications and Mobile Computing, IET Communications, IET Networks, Wiley I. J. of Security and Communication Networks, Journal of Internet Technology, KSII Trans. Internet and Information Systems, International Journal of Sensor Networks. He is managing editor for IJAACS and IJART. He is a Guest Editor for IEEE Network, IEEE Wireless Communications Magazine, etc. He is Co-Chair of IEEE ICC 2012-Communications Theory Symposium, and Co-Chair of IEEE ICC 2013-Wireless Networks Symposium. He is General Co-Chair for the 12th IEEE International Conference on Computer and Information Technology (IEEE CIT-2012) and Mobimedia 2015. He is General Vice Chair for Tridentcom 2014. He is Keynote Speaker for CyberC 2012, Mobiquitous 2012, Cloudcomp 2015 and Tridentcom 2016. He has more than 280 paper publications, including 150+ SCI papers, 60+ IEEE Trans./Journal papers, 9 ISI highly cited papers and 1 hot paper. He has published two books: OPNET IoT Simulation (2015) and Big Data Inspiration (2015) with HUST Presss, and a book on big data: Big Data Related Technologies (2014) with Springer Series in Computer Science. His Google Scholars Citations reached 7,100+ with an h-index of 42. His top paper was cited 800+ times. He is an IEEE Senior Member since 2009. His research focuses on Cyber Physical Systems, IoT Sensing, 5G Networks, Mobile Cloud Computing, SDN, Healthcare Big Data, Medica Cloud Privacy and Security, Body Area Networks, Emotion Communications and Robotics, etc.

2.Research Areas:

Currently, his research focuses on Internet of Things, Machine to Machine Communications, Mobile Cloud, Body Area Networks, Emotion-aware Computing, Healthcare Big Data, Cyber Physical Systems, and Robotics, etc.

3.Professional Experience:

1. present, Professor, School of Computer Science and Technology, Huazhong University of Science and Technology, Wuhan, China.
2. present, Director, Embedded and Pervasive Computing (EPIC) Lab, Huazhong University of Science and Technology, Wuhan, China.
3. Sep/09-Feb/12, Assistant Professor, School of Computer Science and Engineering, Seoul National University, Seoul, Korea.
4. Aug/10-Sep/10, Visiting Professor, School of Computing Science, Simon Fraser University, British Columbia, Canada.
5. Mar/09-Aug/09, R &D Director, Confederal Network Inc., USA.
6. Mar/06-Feb/09, Post-doctoral Fellow in Dept. of Electrical and Computer Engineering, University of British Columbia, Vancouver, Canada.

7. Oct/04-Feb/06, Post-doctoral Fellow in Computer Science and Engineering, Seoul National University, Seoul, Korea.

4. Selected Publications: Citations

Google Scholar citations > 7100 times, single-publication highest citations > 800 times, citations of ten first-author papers > 2800 times, H-index = 42.

1. **Min Chen**, et. al., "Body Area Networks: A Survey", ACM/Springer Mobile Networks and Applications, Vol. 16, No. 2, pp. 171-193, April 2011. (Citation #: **811**)
2. **Min Chen**, S. Mao, Y. Liu, "Big Data: A Survey", ACM/Springer Mobile Networks and Applications, Vol. 19, No. 2, pp. 171-209, April 2014. (Citation #: **431**)
3. **Min Chen**, T. Kwon, Y. Yuan, V. Leung, "Mobile Agent Based Wireless Sensor Networks", Journal of Computers, Vol. 1, No. 1, pp. 14-21, April 2006. (Citation #: **184**)
4. **Min Chen**, V. Leung, S. Mao, Y. Yuan, "Directional Geographical Routing for Real-Time Video Communications in Wireless Sensor Networks", Elsevier Computer Communications, Vol. 30, No. 17, pp.3368-3383, Nov. 2007. (Citation #: **157**)
5. **Min Chen**, "OPNET Network Simulation", Press of Tsinghua University, 2004, ISBN 7-302-08232-4. (Citation #: **355+64=419**)
6. **Min Chen**, T.Kwon, Y.Choi, and V.Leung, "MADD:Mobile-agent-based Directed Diffusion in Wireless Sensor Networks", EURASIP Journal on Applied Signal Processing, Vol.2007, No.1, pp.219-242, Jan.2007. (Citation #: **123**)
7. **Min Chen**, S. Gonzalez and V. Leung, "Applications and Design Issues of Mobile Agents in Wireless Sensor Networks", IEEE Wireless Communications Magazine, Vol. 14, No. 6, pp. 20-26, Dec. 2007. (Citation #: **161**)
8. **Min Chen**, T. Kwon, and Y. Choi, "Energy-efficient Differentiated Directed Diffusion for Real-Time Traffic in Wireless Sensor Networks", Elsevier Computer Communications, Vol. 29, No.2, pp. 231-245, Jan. 2006. (Citation #: **120**)
9. **Min Chen**, V. Leung, S. Mao, Y. Xiao, I. Chlamtac, "Hybrid Geographical Routing for Flexible Energy-Delay Trade-Offs", IEEE Transactions on Vehicular Technology, Vol.58, No.9, pp.4976-4988, Nov.2009. (Citation #: **63**)
10. **Min Chen**, J. Wan, F. Li, "Machine-to-Machine Communications: Architectures, Standards, and Applications", KSII Transactions on Internet and Information Systems, Vol. 6, No. 2, pp. 480-497, Feb. 2012. (Citation #: **133**)
11. **Min Chen**, S. Gonzalez, Q. Zhang, M. Li and V. Leung, "A 2G-RFID based E-healthcare System", IEEE Wireless Communications Magazine, Vol. 17, No. 1, pp. 37-43, Feb. 2010. (Citation #: **122**)
12. Y. Yuan, **Min Chen**, T. Kwon, "A Novel Cluster Based Cooperative MIMO Scheme for Multi-hop Wireless Sensor Networks", EURASIP Journal on Wireless Communications and Networking, Vol. 2006, No. 2, pp. 38-47, 2006.(Citation #: **106**)
13. X. Wang, **Min Chen**, T. Taleb, A. Ksentini, V. Leung, "Cache in the air: exploiting content caching and delivery techniques for 5Gw systems", IEEE Communications Magazine, Vol. 52, No. 2, pp. 131-139, 2014.(Citation #: **169**)
14. Y. Yuan, Z. He, and **Min Chen**, "Virtual MIMO-based Cross Layer Design for Wireless Sensor Networks," IEEE Transactions on Vehicular Technology, Vol. 53, No.3, May 2006. (Citation #: **153**)

4. Selected Publications: ESI Highly Cited Papers

According to searching result of <http://esi.webofknowledge.com/>

1. Min Chen, et al. "Big Data: A Survey", ACM/Springer Mobile Networks and Applications, Vol. 19, No. 2, pp. 171-209, April 2014.

Min Chen, et al., "Body Area Networks: A Survey", ACM/Springer Mobile Networks and Applications, Vol. 16, No. 2, pp. 171-193, April 2011.
2. "Rethinking energy efficiency models of cellular networks with embodied energy", IEEE Network, Vol. 25, No. 2, pp. 40-49, 2011.
3. "A Survey of Green Mobile Networks: Opportunities and Challenges", ACM/Springer Mobile Networks and Applications, Vol. 17, No. 1, pp. 4-20, Feb. 2012.
4. Min Chen, "NDNC-BAN: Supporting Rich Media Healthcare Services via Named Data Networking in Cloud-assisted Wireless Body Area Networks", Information Sciences, Vol. 284, No. 10, pp. 142-156, Nov. 2014.
5. "Cache In The Air: Enabling the Green Multimedia Caching and Delivery for the 5G Network", IEEE Communications Magazine, Vol. 52, No. 2, pp. 131-139, Feb. 2014.
6. Min Chen, et al. "A Survey of Recent Developments in Home M2M Networks," IEEE Communications Surveys and Tutorials, Vol. 16, No. 1, pp. 98-114, Feb. 2014.
7. Min Chen, et al. "On The Computation Offloading at Ad Hoc Cloudlet: Architecture and Service Models", IEEE Communications, Vol. 53, No. 6, pp. 18-24, June 2015.
8. Min Chen, et al. "EMC: Emotion-aware Mobile Cloud Computing in 5G", IEEE Network, Vol. 29, No. 2, pp. 32-38, Mar. 2015.
9. Min Chen, et al. "AIWAC: Affective Interaction through Wearable Computing and Cloud Technology", IEEE Wireless Communications Magazine, Vol. 22, No. 1, pp. 20-27, Feb. 2015.

5. Selected Publications: IEEE Trans & Magazine

1. **Min Chen**, S. Gonzalez, Q. Zhang, V. Leung, "Software Agent-based Intelligence for Code-centric RFID Systems", *IEEE Intelligent Systems*, vol. 25, no. 2, pp. 12-19, Mar./Apr. 2010.
2. **Min Chen**, S. Gonzalez, Q. Zhang, M. Li and V. Leung, "A 2G-RFID based E-healthcare System", *IEEE Wireless Communications Magazine*, Vol. 17, No. 1, pp. 37-43, Feb. 2010.
3. **Min Chen**, V. Leung, S. Mao, Y. Xiao, I. Chlamtac, "Hybrid Geographical Routing for Flexible Energy-Delay Trade-Offs", *IEEE Transactions on Vehicular Technology*, vol.58, no.9, pp.4976-4988, Nov. 2009.

4. **Min Chen**, L. Yang, T. Kwon, L. Zhou, M. Jo, "Itinerary Planning for Energy-efficient Agent Communication in Wireless Sensor Networks", *IEEE Transactions on Vehicular Technology*, Vol. 60, No.7, pp.3290-3299, Sep. 2011.
5. **Min Chen**, S. Gonzalez and V. Leung, "Applications and Design Issues of Mobile Agents in Wireless Sensor Networks", *IEEE Wireless Communications Magazine*, Vol. 14, No. 6, pp. 20-26, Dec. 2007.
6. **Min Chen**, Y. Wen, H. Jin, V. Leung, "Enabling Technologies for Future Data Center Networking: A Primer," *IEEE Network*, Vol. 27, No. 4, pp. 8-15, July 2013.
7. **Min Chen**, J. Wan, S. Gonzalez, X. Liao, V. Leung, "A Survey of Recent Developments in Home M2M Networks," *IEEE Communications Surveys and Tutorials*, Vol. 16, No. 1, pp. 98-114, Feb. 2014.
8. **Min Chen**, Y. Hao, Y. Li, C. Lai, D. Wu, "On The Computation Offloading at Ad Hoc Cloudlet: Architecture and Service Models", *IEEE Communications*, Vol. 53, No. 3, Apr. 2015.
9. **Min Chen**, Y. Zhang, Y. Li, S. Mao, V. Leung, "EMC: Emotion-aware Mobile Cloud Computing", *IEEE Network*, Vol. 29, No. 2, pp. 32-38, Mar. 2015.
10. **Min Chen**, Y. Zhang, Y. Li, M. Hassan, A. Alamri, "AIWAC: Affective Interaction through Wearable Computing and Cloud Technology", *IEEE Wireless Communications Magazine*, Vol. 22, No. 1, pp. 20-27, Feb. 2015.
11. W. Sha, Y. Zhu, **Min Chen**, T. Huang, "Statistical Learning for Anomaly Detection in Cloud Server Systems: A Multi-Order Markov Chain Framework", *IEEE Trans. on Cloud Computing*, DOI: 10.1109/TCC.2015.2415813, 2015.
12. D. Wu, H. Tian, J. He, Y. Xu, **Min Chen**, "On Achieving Cost-Effective Adaptive Cloud Gaming in Geo-distributed Data Centers", *IEEE Trans. on Circuits and Systems for Video Technology*, DOI: 10.1109/TCSVT.2015.2416563, 2015.
13. **Min Chen** and G. Wei, "Multi-Stages Hybrid ARQ with Conditional Frame Skipping and Reference Frame Selecting Scheme for Real-Time Video Transport Over Wireless LAN," *IEEE Transaction on Consumer Electronics*, Vol. 50, No.1, pp.158-167, Feb. 2004.
14. S. Gonzalez, **Min Chen***, V. Leung, "Mobility Support for Health Monitoring at Home Using Wearable Sensors", *IEEE Transactions on Information Technology in Biomedicine*, vol.15, no.4, pp.539-549, July 2011.
15. Y. Yuan, Z. He, and **Min Chen**, "Virtual MIMO-based Cross Layer Design for Wireless Sensor Networks," *IEEE Transactions on Vehicular Technology*, Vol. 53, No.3, pp. 856-864, May. 2006.

16. X. Wang, **Min Chen**, Y. Zhang, T. Kwon and Y. Choi, "Characterizing the MMORPG Traffic: from Game Content to Network Access", *IEEE Network Magazine*, vol.26, no.1, pp. 27-34, Feb. 2012.
17. C. Lai, **Min Chen**, et. al., "A RF4CE-based Remote Controller with Interactive Graphical User Interface Applied to Home Automation System", *ACM Transactions on Embedded Computing Systems*, Vol. 12, No. 2, Article No. 30, Feb. 2013.
18. I. Humar, X. Ge, L. Xiang, M. Jo, **Min Chen**, J. Zhang, "Rethinking Energy-efficiency Models of Cellular Networks with Embodied Energy", *IEEE Network Magazine*, Vol.25, No.2, pp. 40-49, March/April 2011.
19. M. Qiu, W. Gao, **Min Chen**, J. Niu, L. Zhang, "Energy Efficient Security Algorithm for Power Grid Wide Area Monitoring System", *IEEE Transactions on Smart Grid*, Vol. 2, No. 4, pp. 715-723, December 2011.
20. M. Qiu, H. Su, **Min Chen**, Z. Ming, L. Yang, "Balance of Security Strength and Energy for a PMU Monitoring System in Smart Grid", *IEEE Communications Magazine*, Vol. 50, No. 5, pp. 142-149, May. 2012.
21. L. Zhou, **Min Chen**, H. Chen, Y. Qian, "Fairness Resource Allocation in Blind Wireless Multimedia Communications", *IEEE Transactions on Multimedia*, Vol. 15, No. 4, pp. 946-956, June 2013.
22. V. Leung, Y. Wen, **Min Chen**, C. Rong, "Guest Editorial: Mobile Cloud Computing," *IEEE Wireless Communications Magazine*, Vol.20, No.3, June 2013.
23. C. Luo, G. Min, F. Yu, **Min Chen**, L. Yang, V. Leung, "Energy-Efficient Distributed Relay and Power Control in Cognitive Radio Cooperative Communications", *IEEE Journal on Selected Areas in Communications*, Vol. 31, No. 11, pp. 2442-2452, Nov. 2013.
24. V. Leung, **Min Chen**, M. Guizani, B. Vucetic, "Guest Editorial: Cloud-Assisted Mobile Computing and Pervasive Services," *IEEE Network*, Vol. 27, No. 5, pp. 4-5, Sep. 2013.
25. D. Zhang, **Min Chen**, M. Guizani, H. Xiong, "Mobility Prediction in Telecom Cloud Using Mobile Calls", *IEEE Wireless Communications Magazine*, Vol. 21, No. 1, pp. 26-32, Feb. 2014.
26. X. Ge, X. Huang, Y. Wang, **Min Chen**, et al. "Energy Efficiency Optimization for MIMO-OFDM Mobile Multimedia Communications Systems with QoS Constraints", *IEEE Transactions on Vehicular Technology*, Vol. 63, No. 5, pp. 2127-2138, 2014.
27. D. Zhang, C. Hsu, **Min Chen**, et al., "Cold-start Recommendation Using Bi-clustering and Fusion For Large-scale Social Recommender Systems", *IEEE Transactions on Emerging Topics in Computing*, Vol. 2, No. 2, pp. 239-250, June 2014.
28. X. Wang, **Min Chen**, A. Ksentini, T. Taleb, V. Leung, "Cache In The Air: Enabling the Green Multimedia Caching and Delivery for the 5G Network", *IEEE Communication Magazine*, Vol. 52, No. 2, Feb. 2014.

29. X. Wang, **Min Chen**, T. kwon, L. Jin, V. Leung, "Mobile Traffic Offloading by Exploiting Social Network Services and Leveraging Opportunistic Device-to-Device Sharing", *IEEE Wireless Communications Magazine*, Vol. 21, No. 3, pp. 28-36, 2014.
30. H. Wang, S. Wu, **Min Chen**, W. Wang, "Security Protection between Users and the Mobile Media Cloud", *IEEE Communication Magazine*, Vol. 52, No. 3, pp. 73-79, Mar. 2014.
31. C. Lai, **Min Chen**, J. Pan, C. Youn, H. Chao, "Collaborative Computing Framework of Cloud Network and WBSN Applied Falling Detection and Body Reconstruction", *IEEE Transactions on Information Technology in Biomedicine*, Vol. 18, No. 2, pp. 457-466, 2014.
32. W. Cai, **Min Chen**, V. Leung, "Towards Gaming as a Service", *IEEE Internet Computing*, Vol. 18, No. 3, pp. 12-18, May-June 2014.
33. X. Wang, **Min Chen**, "PreFeed: Cloud-Based Content Prefetching of Feed Subscriptions for Mobile Users", *IEEE System Journal*, Vol. 8, No. 1, pp. 202-207, Mar. 2014.
34. C. Lai, **Min Chen**, "Playback-Rate Based Streaming Services for Maximum Network Capacity in IP Multimedia Subsystem", *IEEE System Journal*, Vol. 5, No. 4, pp.555-563, Dec. 2011.
35. V. Leung, T. Taleb, **Min Chen**, T. Magedanz, L. Wang, R. Tafazolli, "Editorial: Unveiling 5G Wireless Networks: Emerging Research Advances, Prospects, and Challenges", *IEEE Network*, Nov. 2014.
36. O. Yurur, C. Liu, C. Perara, **Min Chen**, X. Liu, W. Moreno, "Energy-Efficient and Context-Aware Smartphone Sensor Employment", *IEEE Transactions on Vehicular Technology*, 10.1109/TVT.2014.2364619, 2014.
37. Y. Zhang, **Min Chen**, S. Mao, V. Leung, "CAP: Crowd Activity Prediction Based on Big Data Analysis", *IEEE Network*, Vol. 28, No. 4, pp. 52-57, July 2014.
38. Z. Sheng, C. Mahapatra, V. Leung, **Min Chen**, P. Sahu, "Energy Efficient Cooperative Computing in Mobile Wireless Sensor Networks", *IEEE Trans. on Cloud Computing*, DOI: 10.1109/TCC.2015.2458272, 2015.
39. H. Tian, D. Wu, J. He, Y. Xu, **Min Chen**, "Toward Cost-Effective Mobile Video Streaming via Smart Cache With Adaptive Thresholding", *IEEE Transactions on Broadcasting*, Vol. 61, No. 4, pp. 639-650, 2015.
40. X. Wang, **Min Chen**, T. Kwon, L. Yang, V. Leung, "AMES-Cloud: A Framework of Adaptive Mobile Video Streaming and Efficient Social Video Sharing in the Clouds", *IEEE Transactions on Multimedia*, Vol. 15, No. 4, pp. 811-820, June 2013.
41. D. Zhang, S. Zhang, L. Yang, **Min Chen**, Y. Wang, H. Liu, "NextMe: Localization Using Cellular Traces in Internet of Things", *IEEE Transactions on Industrial Informatics*, Vol. 11, No. 2, pp. 302-312, 2015.

42. C. Liu, Z. Zhang, **Min Chen**, "Personalized Multimedia Recommendations for Cloud-Integrated Cyber-Physical Systems", *IEEE System Journal*, DOI:10.1109/JSYST.2015.2440431, 2015.
43. J. He, D. Wu, X. Xie, **Min Chen**, Y. Li, "Efficient Upstream Bandwidth Multiplexing for Cloud Video Recording Services", *IEEE Trans. on Circuits and Systems for Video Technology*, DOI: 10.1109/TCSVT.2015.2475875, 2015.
44. Min Chen, V. Leung, X. Lai, "5G Wireless Technologies: Perspectives on the Next Generation of Mobile Communications and Networking", *IEEE Access*, Vol. 1, No. 1, pp. 1-3, Dec. 2014.
45. C. Perera, C. Liu, S. Jayawardena, **Min Chen**, "A Survey on Internet of Things From Industrial Market Perspective", *IEEE Access*, Vol. 2, pp. 1660-1679, 2014.
46. Min Chen, et al., "Opportunistic Workflow Scheduling over Co-Located Clouds in Mobile Environment", *IEEE Trans. Service Computing*, 2015.
47. Y. Niu, Y. Li, **Min Chen**, D. Jin, S. Chen, "A Cross-Layer Design for Software Defined Millimeter-Wave Mobile Broadband System", *IEEE Communications*, Vol. 54, No. 2, pp. 124-130, 2016.
48. J. Liu, Y. Li, **Min Chen**, W. Dong, D. Jin, "Software-Defined Internet of Things for Smart Urban Sensing", *IEEE Communications*, Vol. 53, No. 9, pp. 55-63, 2015.
49. X. Hou, Y. Li, **Min Chen**, D. Wu, D. Jin, S. Chen, "Vehicular Fog Computing: A Viewpoint of Vehicles As the Infrastructures", *IEEE Trans. Vehicular Technology*, Vol. 65, No. 6, pp. 3860-3873, 2016.
50. F. Xu, Y. Li, **Min Chen**, S. Chen, "Mobile Cellular Big Data: Linking Cyberspace and Physical World with Social Ecology", *IEEE Network*, Vol. 30, No. 3, pp. 6-12, 2016.
51. W. Ji, Y. Chen, **Min Chen**, B. Chen, Y. Chen, S. Kung, "Profit Maximization through Online Advertising Scheduling for A Wireless Video Broadcast Network", *IEEE Transaction on Mobile Computing*, Vol. 15, No. 8, pp. 2064-2079, Aug. 2016.
52. T. Taleb, A. Ksentini, **Min Chen**, R. Jantti, "Coping with Emerging Mobile Social Media Applications through Dynamic Service Function Chaining", *IEEE Trans. Wireless Communications*, Vol. 15, No. 4, pp. 2859-2871, 2016.
53. K. Lai, **Min Chen**, J. Deng, M. Hassan, G. Fortino, "Enhanced Fingerprinting and Trajectory Prediction for IoT Localization in Smart Buildings", *IEEE Transactions on Automation Science and Engineering*, Vol. 13, No. 3, pp. 1294-1307, 2016.
54. T. Wang, D. Wu, J. Zhang, **Min Chen**, Y. Zhou, "Measuring and Analyzing Third-party Mobile Game App Stores in China", *IEEE Trans. Network and Service Management*, DOI: 10.1109/TNSM.2016.2601329, 2016.

55. Min Chen, Y. Hao, C. Lai, D. Wu, Y. Li, K. Hwang, "Opportunistic Workflow Scheduling over Co-located Clouds in Mobile Environment", *IEEE Trans. Service Computing*, DOI: 10.1109/TSC.2016.2589247, 2016.
56. G. Gao, C. Liu, **Min Chen**, S. Guo, K. Leung, "Cloud-based Actor Identification with Batch-Orthogonal Local-Sensitive Hashing and Sparse Representation", *IEEE Transactions on Multimedia*, DOI: 10.1109/TMM.2016.2579305, 2016.
57. C. Liu, Z. Zhang, **Min Chen**, "Personalized Multimedia Recommendations for Cloud-Integrated Cyber-Physical Systems", *IEEE System Journal*, DOI:10.1109/JSYST.2015.2440431, 2015.
58. S. Kim, D. Kang, W. Kim, **Min Chen**, C. Youn, "A Science Gateway Cloud with Cost Adaptive VM Management Scheme for Computational Scientific Applications", *IEEE System Journal*, DOI: 10.1109/JSYST.2015.2501750, 2016.
59. Y. Li, **Min Chen**, W. Dai, M. Qiu, "Energy Optimization With Dynamic Task Scheduling Mobile Cloud Computing", *IEEE System Journal*, DOI: 10.1109/JSYST.2015.2442994, 2015.
60. Y. Zheng, D. Wu, Y. Ke, C. Yang, **Min Chen**, G. Zhang, "Online Cloud Transcoding and Distribution for Crowdsourced Live Game Video Streaming", *IEEE Trans. on Circuits and Systems for Video Technology*, DOI: 10.1109/TCSVT.2016.2556584, 2016.
61. W. Sha, Y. Zhu, **Min Chen**, T. Huang, "Statistical Learning for Anomaly Detection in Cloud Server Systems: A Multi-Order Markov Chain Framework", *IEEE Trans. on Cloud Computing*, DOI: 10.1109/TCC.2015.2415813, 2015.

Research Contributions (over the last 6 years):

Refereed Journal Publications (first-three-author):

1. **Min Chen**, Y. Hao, Y. Li, C. Lai, D. Wu, "On The Computation Offloading at Ad Hoc Cloudlet: Architecture and Service Models", *IEEE Communications*, Vol. 53, No. 3, Apr. 2015.
2. **Min Chen**, Y. Zhang, Y. Li, S. Mao, V. Leung, "EMC: Emotion-aware Mobile Cloud Computing", *IEEE Network*, Vol. 29, No. 2, pp. 32-38, Mar. 2015.
3. **Min Chen**, Y. Zhang, Y. Li, M. Hassan, A. Alamri, "AIWAC: Affective Interaction through Wearable Computing and Cloud Technology", *IEEE Wireless Communications Magazine*, Vol. 22, No. 1, pp. 20-27, Feb. 2015.
4. W. Sha, Y. Zhu, **Min Chen**, T. Huang, "Statistical Learning for Anomaly Detection in Cloud Server Systems: A Multi-Order Markov Chain Framework", *IEEE Trans. on Cloud Computing*, DOI: 10.1109/TCC.2015.2415813, 2015.
5. D. Wu, H. Tian, J. He, Y. Xu, **Min Chen**, "On Achieving Cost-Effective Adaptive Cloud Gaming in Geo-distributed Data Centers", *IEEE Trans. on Circuits and Systems for Video Technology*, DOI: 10.1109/TCSVT.2015.2416563, 2015.
6. **Min Chen**, Y. Zhang, L. Hu, T. Taleb, Z. Sheng, "Cloud-based Wireless Network: Virtualized, Reconfigurable, Smart Wireless Network to Enable 5G Technologies", *ACM/Springer Mobile Networks and Applications*, DOI:10.1007/s11036-015-0590-7, 2015.

7. Y. Sun, **Min Chen**, L. Peng, M. Hassan, A. Alelaiwi, "MatrixDCN: a high performance network architecture for large-scale cloud data centers", *Wireless Communications and Mobile Computing*, DOI: 10.1002/wcm.2579, Feb. 2015.
8. J. Zhao, C. Liu, **Min Chen**, X. Liu, K. Leung, "Energy-Efficient Dynamic Event Detection by Participatory Sensing", *IEEE ICC 2015*, UK London, UK, June 8-12, 2015.
9. Z. Sanaei, S. Abolfazli, A. Gani, **Min Chen**, "HMCC: A Hybrid Mobile Cloud Computing Framework Exploiting Heterogeneous Resources", *3rd IEEE International Conference on Mobile Cloud Computing, Services, and Engineering (IEEE Mobile Cloud 2015)*, San Francisco, USA, Mar.30-Apr.3, 2015.
10. D. Zhang, **Min Chen**, M. Guizani, H. Xiong, D. Zhang, "Mobility Prediction in Telecom Cloud Using Mobile Calls", *IEEE Wireless Communications Magazine*, Vol. 21, No. 1, pp. 26-32, Feb. 2014.
11. X. Wang, **Min Chen**, T. kwon, L. Jin, V. Leung, "Mobile Traffic Offloading by Exploiting Social Network Services and Leveraging Opportunistic Device-to-Device Sharing", *IEEE Wireless Communications*, Vol. 21, No. 3, pp. 28-36, 2014.
12. **Min Chen**, J. Wan, S. Gonzalez, X. Liao, V. Leung, "A Survey of Recent Developments in Home M2M Networks," *IEEE Communications Surveys and Tutorials*, Vol. 16, No. 1, pp. 98-114, Feb. 2014.
13. X. Wang, **Min Chen***, T. Taleb, A. Ksentini, V. Leung, "Cache In The Air: Enabling the Green Multimedia Caching and Delivery for the 5G Network", *IEEE Communications Magazine*, Vol. 52, No. 2, Feb. 2014.
14. H. Wang, S. Wu, **Min Chen**, W. Wang, "Security Protection between Users and the Mobile Media Cloud", *IEEE Communications Magazine*, Vol. 52, No. 3, pp. 73-79, Mar. 2014.
15. **Min Chen** (single author), "NDNC-BAN: Supporting Rich Media Healthcare Services via Named Data Networking in Cloud-assisted Wireless Body Area Networks", *Information Sciences*, Vol. 284, No. 10, pp. 142-156, Nov. 2014.
16. Y. Zhang, **Min Chen**, S. Mao, L. Hu, V. Leung, "CAP: Crowd Activity Prediction Based on Big Data Analysis", *IEEE Network*, Vol. 28, No. 4, pp. 52-57, July 2014.
17. V. Leung, T. Taleb, **Min Chen**, T. Magedanz, L. Wang, R. Tafazolli, "Unveiling 5G Wireless Networks: Emerging Research Advances, Prospects, and Challenges", *IEEE Network*, Vol. 28, No. 6, pp. 3-5, Nov. 2014.
18. X. Ge, X. Huang, Y. Wang, **Min Chen**, Q. Li, T. Han, C. Wang, "Energy Efficiency Optimization for MIMO-OFDM Mobile Multimedia Communications Systems with QoS Constraints", *IEEE Transactions on Vehicular Technology*, Vol. 63, No. 5, pp. 2127-2138, 2014.
19. O. Yurur, C. Liu, C. Perara, **Min Chen**, X. Liu, W. Moreno, "Energy-Efficient and Context-Aware Smartphone Sensor Employment", *IEEE Transactions on Vehicular Technology*, 10.1109/TVT.2014.
20. C. Lai, **Min Chen**, J. Pan, C. Youn, H. Chao, "Collaborative Computing Framework of Cloud Network and WBSN Applied Falling Detection and Body Reconstruction", *IEEE Transactions on Information Technology in Biomedicine*, Vol. 18, No. 2, pp. 457-466, 2014.
21. W. Cai, **Min Chen**, V. Leung, "Towards Gaming as a Service", *IEEE Internet Computing*, Vol. 18, No. 3, pp. 12-18, May-June 2014.
22. X. Wang, **Min Chen**, T. Kwon, L. Yang, V. Leung, "AMES-Cloud: A Framework of Adaptive Mobile Video Streaming and Efficient Social Video Sharing in the Clouds", *IEEE Transactions on Multimedia*, Vol. 15, No. 4, pp. 811-820, June 2013. On the list of the top 25 most popular papers from *IEEE TMM*, Feb. 2014.

23. P. Nevesa, J. Rodrigues, **Min Chen**, "A multi-channel architecture for IPv6-enabled wireless sensor and actuator networks featuring PnP support", *Journal of Network and Computer Applications*, Vol. 37, pp. 12-24, Jan. 2014.
24. X. Wang, **Min Chen**, "PreFeed: Cloud-Based Content Prefetching of Feed Subscriptions for Mobile Users", *IEEE Systems Journal*, Vol. 8, No. 1, pp. 202-207, Mar. 2014.
25. C. Perera, C. Liu, S. Jayawardena, **Min Chen**, "A Survey on Internet of Things From Industrial Market Perspective", *IEEE Access*, Vol. 2, pp. 1660-1679, 2014..
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106. X. Guan, C. Liu, **Min Chen**, H. Chen and T. Ohtsuki.(2011) "Internal Threats Avoiding based Forwarding Protocol in Social Selfish Delay Tolerant Networks", In International Conference on Communications (IEEE ICC 2011), Kyoto, Japan, June 5-9, 2011.
107. C. Tsai, W. Li, **Min Chen**, W. Hsieh, C. Yang. (2011) "Analysis of Multi-Path Random Key Pre-Distribution for Wireless Sensor Networks", MoMoPE 2011, Seoul, Korea, June 30th - July 2nd, 2011.
108. K. Lin, C. Lai and **Min Chen**. (2011) "Research on Body Sensor Networks in Cold Region", In International Conference on Communications (IEEE ICC 2011), Kyoto, Japan, June 5-9, 2011.
109. **Min Chen**, M. Guizani. (2011) Geographic Routing in Mobile Multimedia Sensor Networks. Mo-biWorld 2011, in Conjunction with the 30th IEEE International Conference on Computer Communications (Infocom 2011), Shanghai, China, April 10-15, 2011.
110. W. Tang, J. Ni, **Min Chen**, X. Yang. (2011) "Contextual Role-based Security Enhancement Mechanism for 2G-RFID Systems", SCNC 2011, in Conjunction with the 30th IEEE International Conference on Computer Communications (Infocom 2011), Shanghai, China, April 10-15, 2011.
111. W. Cai, X. Wang, **Min Chen**, Y. Zhang. (2010) "MMOPRG Traffic Measurement, Modeling and Generator over WiFi and WiMax", In the IEEE Global Communication Conference (Globecom 2010), Miami, Florida, USA, December 6-10, 2010.
112. C. Lai, **Min Chen**, A. Vasilakos, and Y. Huang. (2010) "Extending the DLNA-based Multimedia Sharing System to P2P Network on OSGi Frameworks", In the IEEE Global Communication Conference (Globecom 2010), Miami, Florida, USA, December 6-10, 2010.
104. K. Lin, **Min Chen**, J. Rodrigues, S. Zeadally, L. Wang. (2010) "On Energy Equilibrium in Wireless Sensor Networks", In ASIT 2010, Miami, Florida, USA, December 6-10, 2010.
113. K. Lin, **Min Chen**, J. Rodrigues, S. Zeadally, L. Wang. (2010) "On Energy Equilibrium in Wireless Sensor Networks", In ASIT 2010, Miami, Florida, USA, December 6-10, 2010.

114. K. Lin, **Min Chen**. (2010) "Reliable Routing Based on Energy Prediction for Wireless Multimedia Sensor Networks", In the IEEE Global Communication Conference (Globecom 2010), Miami, Florida, USA, December 6-10, 2010.
115. **Min Chen**, S. Gonzalez, V. Leung. (2010) "Directional Source Grouping for Multi-Agent Itinerary Planning in Wireless Sensor Networks". ICTC 2010, pp. 207-212, Jeju Island, Korea, 2010.
116. L. Mendes, J. Rodrigues and **Min Chen**. (2010) "A Cross-Layer Sleep and Rate Adaptation Mechanism for Slotted ALOHA Wireless Sensor Networks". Excellent Paper Award, ICTC 2010, Jeju Island, Korea
117. **Min Chen**, W. Cai, S. Gonzalez, V. Leung. (2010) "Balanced Itinerary Planning for Multiple Mobile Agents in Wireless Sensor Networks". ADHOCNETS 2010, July 2010, Victoria, Canada.
118. S. Gonzalez, **Min Chen**, V. Leung. (2010) "Evaluation of Wireless Body Area Sensor Placement for Mobility Support in Healthcare Monitoring Systems". ADHOCNETS 2010, July 2010, Victoria, Canada.
119. X. Liang, **Min Chen**, I. Balasingham, V. Leung. (2010) "Cooperative communications with relay selection for wireless sensor networks: design issues and applications", CHINACOM'10, Beijing, China, Aug. 2010.
120. **Min Chen**, R. Huang, Y. Zhang, H. Chao. (2010) "A Smart RFID System". In the 18th International Workshop on Quality of Service (IWQoS 2010), Beijing, China, June 16-18, 2010.
121. L. Liao, **Min Chen**, S. Vuong, X. Lai. (2010) "A Novel Web-enabled Healthcare Solution on Health Vault System". The 2010 International Workshop on Ubiquitous Body Sensor Networks (UBSN 2010), March 1-3, 2010, Singapore.
122. W. Cai, **Min Chen**, T. Hara, L. Shu. (2010) "GA-MIP: Genetic Algorithm based Multiple Mobile Agents Itinerary Planning in Wireless Sensor Network", Invited Paper to WICON 2010, Singapore, Mar. 2010.
123. W. Ji, P. Li, **Min Chen**, and Y. Chen. (2009) "Power Scalable Video Encoding Strategy Based On Game Theory". IEEE PCM 2009, Lecture Notes in Computer Science 0302-9743 5879/2009 10.1007/978-3-642-10467-1_125 12371C1243, December 15-18, 2009.
124. S. Gonzalez, **Min Chen**, H. Cao, and V. Leung. (2009) "Programmable Re-tasking of Wireless Sensor Networks Using WISEMAN". ASIT 2009, Niagara Falls, Canada, September, 2009.
125. L. Liao, G. Han, **Min Chen**. (2009) "An Integrated RFID and Sensor System for Emergency Handling in Underground Coal Mines Environments". ASIT 2009, Niagara Falls, Canada, September, 2009.
126. **Min Chen**, V. Leung, S. Mao, T. Kwon and M. Li. (2009) "Energy-efficient Itinerary Planning for Mobile Agents in Wireless Sensor Networks". IEEE ICC'09. June 14-18, 2009.
127. X. Liang, **Min Chen**, Y. Xiao, I. Balasingham and V. Leung. (2009) "A Novel Cooperative Communication Protocol for QoS Provisioning in Wireless Sensor Networks". The First International Workshop on Pervasive Computing Systems and Infrastructures (PCSIS'09), Washington DC, USA, April 2009
128. **Min Chen**, X. Liang, V. Leung. (2009) "Multi-Hop Mesh Cooperative Structure based Data Dissemination for Wireless Sensor Networks". IEEE ICACT'09. Feb 15-18, 2009. (Post-doc work)
129. **Min Chen**, S. González, Yan Zhang and V. Leung. (2009) "Multi-agent Itinerary Planning in Wireless Sensor Networks". QShine 2009.
130. **Min Chen**, V. Leung, L. Shu and Han-Chieh Chao. (2009) "On Multipath Balancing and Expanding for Wireless Multimedia Sensor Networks". FGCN 2009.

131. S. González, **Min Chen** and Victor Leung. (2009) "Design, Implementation and Case Study of WISEMAN: Wireless Sensors Employing Mobile Agents". The Second International ICST Conference on MOBILE Wireless MiddleWARE, Operating Systems, and Applications (Mobilware'09), Berlin, Germany, April 28-30, 2009.
132. M. Li, K. Lu, H. Zhu, **Min Chen**, S. Mao, B. Prabhakaran. (2008) "Robot Swarm Communication Networks: Architectures, Protocols, and Application". The 3rd International Conference on Communications and Networking in China (ChinaCom 2008), pp. 162-166, Beijing, Aug 25-28, 2008.
133. **Min Chen**, V. Leung and S. Mao. (2008) "Directed Controlled Fusion in Wireless Sensor Networks". QShine'08. (received Best Paper Runner Award IC Post-doc work).
134. **Min Chen**, V. Leung, S. Mao and M. Li (2008) "Cross-layer and Path Priority Scheduling based Real-time Video Communications over WSNs", IEEE VTCa'08. (Post-doc work)
135. W. Ji, Y. Chen, **Min Chen** and Y. Kang. (2007) "Unequal Error Protection based on Objective Video Evaluation Model". ACM Mobimedia 2007, Nafpaktos, Greece, Aug. 2007.
136. **Min Chen**, T. Kwon, and Y. Choi (2005) "Data Dissemination based on Mobile Agent in Wireless Sensor Networks ", IEEE LCN'05. (Post-doc work)
137. **Min Chen**, Gang Wei. (2003) "Scheduling Algorithm for Real-time VBR Video Streams Using Weighted Switch Deficit Round Robin". In Proc. IEEE Local Computer Networks (LCN'03), Bonn, Germany, October 2003.
138. **Min Chen**, Gang Wei. (2003) "A Novel Hybrid ARQ Algorithm for Real-Time Video Transport Over Wireless LAN". in Proc. IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC) 2003, Beijing, China, Sep. 2003.
139. **Min Chen**, G. Wei, X. Zhu. (2003) "An IP DiffServ Framework For Real-time Video Transmission". International Conference on Communication Technology (ICCT) 2003, Beijing, China, Mar.2003.
140. X. Zhu, **Min Chen**, Y. Yu. (2003) "Video Transmission Based On DIFFSERV Over IP Networks". International Conference on Communication Technology (ICCT) 2003, Beijing, China, Mar.2003.

Refereed Publications (Non-first-three-author):

132. S. Jeong, C. Youn, M. Kim, L. Peng, E. Shim, **Min Chen**, "A Patient-specific Heart Disease Care System with Ambient ECG Management in Mobile Cloud", *IEEE Transactions on Information Technology in Biomedicine*, in Revision.
133. C. Lai, Y. Wen, L. Zhou, H. Wang, **Min Chen***, "Multi-appliance Recognition System with Hybrid SVM/GMM Classifier in Ubiquitous Smart Home", *IEEE System Journal*, Accepted, 2012.
134. L. Shu, M. Hauswirth, H. Chao, **Min Chen**, Y. Zhang, "NetTopo: A Framework of Simulation and Visualization for Wireless Sensor Networks", *Elservier Ad Hoc Networks*, Vol. 9, No. 5, pp. 799-820, Jul. 2011. (SCI)
135. H. Wang, H. Fang, L. Xing, **Min Chen**, "An Integrated Biometric-based Security Framework Using Wavelet-Domain HMM in Wireless Body Area Networks (WBAN)", In International Conference on Communications (IEEE ICC 2011), Kyoto, Japan, June 5-9, 2011.
136. L. Mendes, J. Rodrigues, B. Campos, and **Min Chen**, "Frame Delay and Jitter Analysis of a Cross-Layer Solution for Energy Consumption Reduction in Body Area and Multimedia Sensor Networks", *IEEE System Journal*, accepted, 2011. (SCI)
137. I. Humar, X. Ge, L. Xiang, M. Jo, **Min Chen**, J. Zhang, "Rethinking Energy-efficiency Models of Cellular Networks with Embodied Energy", *IEEE Network Magazine*, Vol.25, No.2, pp. 40-49, March 2010.

138. X. Ge, C. Cao, M. Jo, **Min Chen**, etc. "Energy Efficiency Modelling and Analyzing Based on Multi-cell and Multi-antenna Cellular Networks", KSII Transactions on Internet and Information Systems, Vol. 4 No. 8, pp.560-574, 2010.

Editorial:

139. **Min Chen** et al., "Smart and interactive ubiquitous multimedia services", International Journal of Communication System, 2012.
140. **Min Chen** et al., "Advances in Multimedia Communications", International Journal of Communication System, 2011.
141. **Min Chen** et al., "Ubiquitous Body Sensor Networks ", ACM/Springer Mobile Networks and Applications, DOI 10.1007/s11036-011-0341-3, 2011
142. **Min Chen**, "Mobile, Multimedia, Ad hoc and Sensor Networks", Int. J. Communication Networks and Distributed Systems, 2011
143. **Min Chen** et al., "Recent Advances in Sensor Integration", Int. J. Sensor Networks, Vol. 9, No. 1, pp. 1-2, 2011
144. **Min Chen**, "Interactive and Smart Multimedia Services", IEEE COMSOC MMTTC E-Letter, 2011

Other Evidence of Impact and Contributions:

Journal Editorships:

- Corresponding Guest Editor, IEEE Trans. Service Computing Special Issue on: "Mobile Big Data Management and Innovative Applications", 2015
- Guest Editor, IEEE Network Special Issue on: "Unveiling 5G Wireless Networks: Emerging Research Advances, Prospects, and Challenges", 2014
- Corresponding Guest Editor, IEEE Wireless Communications Special Issue on: "Cloud-Assisted Mobile Computing and Pervasive Services", 2013
- Guest Editor, IEEE Network Special Issue on: "Mobile Cloud Computing", 2013
- Guest Editor, COMCOM Special Issue on: "Smart and Interactive Ubiquitous Multimedia Services", 2011
- Corresponding Guest Editor, ACM/Springer MONET Special Issue on: "Ubiquitous Body Sensor Networks", 2009
- Corresponding Guest Editor, International Journal of Communication System (IJCS) Special Issue on: "Advances in Multimedia Communications"
- Corresponding Guest Editor, ACM/Springer MONET Special Issue on: "Advances in Green Mobile Networks", 2010
- Corresponding Guest Editor, International Journal of Communication Networks and Distributed Systems SI on: "Mobile, Multimedia, Ad Hoc & Sensor Networks"
- Guest Editor, International Journal of Autonomous and Adaptive Communications Systems (IAACS) Special Issue on: "Ubiquitous Deployments of Body Sensor Networks"
- Corresponding Guest Editor, International Journal of Sensor Networks (IJSNet) Special Issue on: "Recent Advances in Sensor Integration"
- Associate Editor, International Journal of Autonomous and Adaptive Communications Systems, 2009-present.
- Associate Editor, International Journal of Arts and Technology (IJART), 2009-present.

- Editorial board, The Journal of Information Processing Systems (JIPS), 2009-present.
- Associate Editor, Wiley I. J. of Security and Communication Networks, SCIE indexed, 2010-present.
- Editorial board, International Journal of E-Health and Medical Communications, 2009-present.
- Associate Editor, Wireless Communications and Mobile Computing, SCIE indexed, 2010-present.
- Editorial Board, International Journal of Sensor Networks (IJSNet) , 2010-present.
- Editor, KSII Transactions on Internet and Information Systems (TIIS) , SCIE indexed, 2010-present.
- Editor, Journal of Internet Technology, SCIE indexed, 2010-present.
- Editor, Wiley I. J. of Wireless Communications and Mobile Computing, SCI indexed, 2010-present.
- Editorial Board, IET Communications, SCI indexed, 2010-present.

International Conferences Organized:

- General Co-Chair, 8th International Conference on Mobile Multimedia Communications (Mobimedia 2015), Chengdu, China, May 25-27, 2015.
- TPC Chair, IEEE 16th International Conference on E-health Networking, Application & Services, (IEEE Healthcom 2015), Boston, USA, October 2015.
- Steering Committee Co-Chair, The 4th International Conference on Cloud Computing (Cloud-Comp 2014), Guilin, China, Oct. 19-21, 2014.
- Steering Committee Co-Chair, The 5th International Conference on Cloud Computing (Cloud-Comp 2015), Daejeon, Korea, October 2015.
- TPC Co-Chair, International Conference on Cyber-enabled Distributed Computing and Knowledge Discovery (CyberC 2014), Shanghai, China, Oct. 10-12, 2014.
- General Vice Chair, 9th International Conference on Testbeds and Research Infrastructures for the Development of Networks & Communities (TRIDENTCOM 2014), May 5-7, 2014 Guangzhou, People's Republic of China.
- Co-Chair of IEEE ICC-Wireless Networks Symposium, Budapest, June 9-13, 2013.
- General Co-Chair of the 12th IEEE International Conference on Computer and Information Technology (IEEE CIT-2012), Chengdu, Sichuan, China, Oc. 2012.
- Co-Chair of IEEE ICC-Communication Theory Symposium, Ottawa, June 10-15, 2012.
- Poster Chair, the Sixth International Conference on Body Area Networks (BodyNets 2011)
- Chair for Digital Signal Processing as Applied to Wireless Symposium, 2011 IEEE Radio and Wireless Symposium (RWS 2011)
- TPC Chair, the First ICST Conference on Green Communications and Networking (GreenNets 2011)
- TPC Co-Chair, the Fifth International Conference on Body Area Networks (BodyNets 2010)
- Workshop Co-Chair, 2010 Fourth International Conference on Communications and Networking in China (CHINACOM 2010)
- Symposia Co-Chair, CHINACOM 2010, Aug. 2010.
- Web Chair, ICST BodyNets, Corfu Island, Greece, September 10-12, 2010
- TPC Co-chair, 2010 ICST Conference on Green Communications and Networking

- TPC Co-chair, 2010 International Workshop on Green Communication of Cellular Networks (GCCN2010)
- Workshop Chair, 2010 International Workshop on Ubiquitous Body Sensor Networks (UBSN-10)
- TPC Co-chair, international Workshop on Pervasive Computing Systems and Infrastructures (PCSI 2009)
- Publicity Chairs: WCNIS2010), PICom-09), WPS 2010, ICUMT 2010.
- TPC Chair, 2009 International Workshop on Advanced Sensor Integration Technology (ASIT 2009)
- Workshop Chair, 2009 International Workshop on Mobile, Multimedia, Ad Hoc & Sensor Networks (MMASN-09)
- Session Chairs: IEEE ICC 2009, IEEE VTC 2008, ICST QShine 2008, ICST Trientcom 2009, ADHOCNETS 2010
- Program Committee of several conferences: IEEE INFOCOM 2015, IEEE INFOCOM 2014, VTC 2007, WRECOM 2007, ICCCN 2008, CHINACOM 2008, WONGEN 2008, WAC 2009, PCSI 2009, 3DTV-CON 2009, VTC2010-Spring, MMASN-10, UBSN-10, Pi-Com-09, ASIT-09, ICACT 2009, ICOIN 2010, etc.

Invited Talks:

1. Task Offloading at Ad-hoc Cloudlet for Emotion-aware Application, McGill University (2014-Sep)
2. Cooperative Communication with Guaranteed Delivery in Duty-Cycled Sensor Networks, Western University (2014-Sep)
3. Smart Garment based Cloud-Terminal Integrated Health Monitoring System, AiQ Inc. (2015-June)
4. Big Data Analytics in Healthcare, National Chung Cheng University (2015-June)
5. Healthcare Big Data and Emotion Detection Networking, National ILan University (2015-June)
6. The Internet of Things, Tsinghua University (2015-June)
7. Towards Smart Caching in 5G via Software Defined Networking, Shanghai Jiaotong University (2015-Mar)
8. Prefix-Based Prediction-Oriented Cooperative Caching in Named Data Networking, Shanghai Jiaotong University (2013-June)
9. Internet Things for Advanced Society, Beijing Jiaotong University (2011-Nov)
10. The Second Generation RFID System, Nanjing University of Post and Telecommunications (2011-July-25)
11. Ubiquitous Networks and Services for Advanced Society, South-Central University for Nationalities (2010-Oct-09)
12. School of Computer Science, Simon Fraser University, Canada (2010-Aug)
13. School of Computer Science and Technology, Huazhong University of Science and Technology, China (2010-July)
14. China 973 Wireless Sensor Network Lab & Self-organization Network and Network Computing Center, Shanghai Jiaotong University, China (2010-July)
15. Department of Computer Science, Huazhong University of Science and Technology, China (2010-April)
16. Beijing University of Posts and Telecommunications, China (2009-Dec-17)

17. The Hong Kong Polytechnic University, Hong Kong (2009-Dec-16)
18. Department of Electrical Engineering, The University of Hong Kong, Hong Kong (2009-Dec-15)
19. National Dong Hwa University, Taiwan (2009-Nov-30)
20. College of EECS, National ILan University, Taiwan (2009-Nov-29)
21. National Cheng Kung University, Taiwan (2009-Nov-27)
22. Department of ECE, University of British Columbia: Multi-Hop Mesh Cooperative (MMC) Structure Based Data Dissemination for Wireless Sensor Networks (2009-Mar-6)
23. School of Computer Science and Engineering, Seoul National University: RFID System for Airport (2009-Feb-19)
24. Department of Computing, The Hong Kong Polytechnic University: Directional Controlled Fusion (2008-July-29)
25. Department of Computing, The Hong Kong Polytechnic University: Intelligent Video Surveillance Sensor System (2008-May-16)
26. Department of ECE, University of British Columbia: Object-oriented RFID System (2008-Mar-9)
27. Department of ECE, University of British Columbia: Applications and Design Issues in Mobile Agents based Sensor Networks (2007-Mar-9)

Membership of Committees and Boards:

- Chair & Founder: IEEE Computer Society (CS) Special Technical Communities (STC) on Big Data (2014-present)
- IEEE Senior Member (2009-present)
- Committee Member, ICST Information Technologies Committee (2008-present)
- Committee Member, IEEE Computational Intelligence Society (2009-present)

Teaching:

1. Sep/14-Dec/14, "Internet of Things: Architecture and Applications" in School of Computer Science and Technology, Huazhong University of Science and Technology.
2. Sep/14-Dec/14, "Machine to Machine Communications" in School of Computer Science and Technology, Huazhong University of Science and Technology.
3. Sep/14-Dec/14, "Internet of Things: Key Technologies" in School of Computer Science and Technology, Huazhong University of Science and Technology.
4. Sep/13-Dec/13, "Internet of Things: Architecture and Applications" in School of Computer Science and Technology, Huazhong University of Science and Technology.
5. Sep/13-Dec/13, "Machine to Machine Communications" in School of Computer Science and Technology, Huazhong University of Science and Technology.
6. Sep/13-Dec/13, "Internet of Things: Key Technologies" in School of Computer Science and Technology, Huazhong University of Science and Technology.
7. Sep/12-Dec/12, "Internet of Things: Architecture and Applications" in School of Computer Science and Technology, Huazhong University of Science and Technology.
8. Sep/12-Dec/12, "Machine to Machine Communications" in School of Computer Science and Technology, Huazhong University of Science and Technology.
9. Sep/12-Dec/12, "Internet of Things: Key Technologies" in School of Computer Science and Technology, Huazhong University of Science and Technology.

10. Dec/11-Jan/12, "Programming Practice" in School of Computer Science and Engineering, Seoul National University.
11. Dec/11-Jan/12, "Programming Practice" in School of Computer Science and Engineering, Seoul National University.
12. Dec/11-Jan/12, "Programming Practice" in School of Computer Science and Engineering, Seoul National University.
13. Sep/11-Nov/11, "Computer Modeling" in School of Computer Science and Engineering, Seoul National University.
14. June/11-Aug/11, "Engineering Mathematics II" in School of Computer Science and Engineering, Seoul National University.
15. Mar/11-June/11, "Engineering Mathematics II" in School of Computer Science and Engineering, Seoul National University.
16. Dec/10-Jan/11, "Data Structure" in School of Computer Science and Engineering, Seoul National University.
17. Sep/10-Nov/10, "Engineering Mathematics II" in School of Computer Science and Engineering, Seoul National University.
18. June/10-July/10, "Data Structure" in School of Computer Science and Engineering, Seoul National University.
19. Mar/10-June/10, "Engineering Mathematics II" in School of Computer Science and Engineering, Seoul National University.
20. Mar/10-June/10, "Computer Modeling" in School of Computer Science and Engineering, Seoul National University.
21. 12/09-01/10, "Data Structure" in School of Computer Science and Engineering, Seoul National University.
22. 07/02-01/03, "Digital Signal Processing" for undergraduates (Grade2000-Class3) in Department of Computer Science, South China Normal University.
23. 07/02-01/03, "Communication Theory" for undergraduates (Grade2000-Class3) in Department of Computer Science, South China Normal University.