

Curriculum Vitae - Min Chen

Professor, Ph.D Supervisor, Highly Cited Researcher
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1.Short Bio:

Min Chen is a full professor in School of Computer Science and Technology at Huazhong University of Science and Technology (HUST) since Feb. 2012. He is the director of Embedded and Pervasive Computing (EPIC) Lab at 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). 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 QShine 2008, IEEE ICC 2012, ICST IndustrialIoT 2016, and IEEE IWCMC 2016. He serves as technical editor or associate editor for IEEE Network, Information Sciences, Information Fusion, and IEEE Access, etc. He served as a leading Guest Editor for IEEE Wireless Communications, IEEE Network, and IEEE Trans. Service Computing, etc. He is a Series Editor for IEEE Journal on Selected Areas in Communications. 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 IEEE CIT-2012, Tridentcom 2014, Mobimedia 2015, and Tridentcom 2017. He is Keynote Speaker for CyberC 2012, Mobiquitous 2012, Cloudcomp 2015, IndustrialIoT 2016, Tridentcom 2017 and The 7th Brainstorming Workshop on 5G Wireless. He has 300+ publications, including 200+ SCI papers, 100+ IEEE Trans./Journal papers, 32 ESI highly cited papers and 10 ESI hot papers. He has published eleven books: OPNET IoT Simulation (2015), Big Data Inspiration (2015), 5G Software Defined Networks (2016) and Introduction to Cognitive Computing (2017) with HUST Press, Big Data: Related Technologies, Challenges and Future Prospects (2014) and Cloud Based 5G Wireless Networks (2016) with Springer, Cognitive Computing and Deep Learning (2018) with China Machine Press, and Big Data Analytics for Cloud/IoT and Cognitive Computing (2017) with Wiley. His Google Scholar Citations reached 16,950+ with an h-index of 64 and i10-index of 208. His top paper was cited 1990+ times. He is an IEEE Senior Member since 2009. He was selected as Highly Cited Research at 2018. He got IEEE Communications Society Fred W. Ellersick Prize in 2017, and the IEEE Jack Neubauer Memorial Award in 2019. His research focuses on cognitive computing, 5G Networks, embedded computing, wearable computing, big data analytics, robotics, machine learning, deep learning, emotion detection, IoT sensing, and mobile edge computing, 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.

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.

Selected Publications: Citations

Google Scholar citations >16,950 times, single-publication highest citations > 1950 times, H-index = 64.

1. **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 #: **1996**)
2. **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 #: **1298**)
3. **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. (Citation #: **252**)
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 #: **193**)
5. **Min Chen**, "OPNET Network Simulation", Press of Tsinghua University, 2004, ISBN 7-302-08232-4. (Citation #: **406 + 137 = 543**)
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 #: **168**)
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 #: **206**)
8. **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 #: **141**)
9. 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 #: **705**)
10. X Hou, Y Li, **Min Chen**, D Wu, D Jin, S Chen, "Vehicular fog computing: A viewpoint of vehicles as the infrastructures," IEEE Transactions on Vehicular Technology, Vol. 65, No. 6, pp. 3860-3873, 2016. . (Citation #: **273**)
11. 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 #: **197**)

Paper Award & Citation:

1. **Min Chen has been selected as Highly Cited Researcher (computer science) @ 2018:** (will be formally announced at Nov. 2018, 152 in computer science category globally)
2. **2017 IEEE Communications Society Fred W. Ellersick Prize:** X . Wang, **Min Chen** (*corresponding author), et al., “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.
3. **2019 IEEE Jack Neubauer Memorial Award :** X. Hou, Y. Li, **Min Chen**, et al., “Vehicular Fog Computing: A Viewpoint of Vehicles As the Infrastructures,” IEEE Trans. Vehicular Technology , Vol. 65, No. 6, pp. 3860-3873, 2016. It was recognized as the Best Systems Paper published in IEEE Transactions on Vehicular Technology. The award, which is sponsored by Panasonic, granted by the IEEE Foundation and administrated by the IEEE Vehicular Technology Society, acknowledges the best paper of the year published by the Society on the subject of Vehicular Technology Systems and recognizes the valuable contribution of the work to the furtherance of the Society’s interests in mobile communications, automotive, and land transportation electronics technology.
4. **Min Chen**, “The Collection of Books on Key Technologies for 5G Mobile Communications”, Top 20 Books in Hubei Province, Hubei Administration of Press, Publication, Radio, Film and Television.
5. **Min Chen**, et al., “Directional Geographical Routing for Real-Time Video Communications in Wireless Sensor Networks”, Computer Communications, Vol. 30, No. 17, pp.3368 – 3383, Nov. 2007. Selected on the list of the most influential COMCOM papers published in the past 40 years.
6. 2014, 2015, 2016, 2017 Elsevier Highly Cited Researcher in Computer Science Category, China.
7. L. Zhou, **Min Chen**, B. Zheng, J. Wu, “Green Multimedia Communications over Internet of Things”, IEEE International Conference on Communications (ICC’12), Ottawa, Canada, June 10-15, 2012. (Best Paper Award)
8. **Min Chen**, et al., “M-Plan: Multipath Planning based Transmissions for IoT Multimedia Sensing”, IEEE IWCMC, Cyprus, Sep. 2016. (Best Paper Award)
9. **Min Chen**, et al., “CP-Robot: Cloud-assisted Pillow Robot for Emotion Sensing and Interaction”, Industrialiot 2016, Guangzhou, China, Mar. 2016. (Best Paper Award)
10. **Min Chen**, V. Leung and S. Mao, “Directed Controlled Fusion in Wireless Sensor Networks”, ICST QShine’08, HongKong, Sep. 28-31th, 2008. (Best Paper Award - runner up)
11. Popular Content of this publication, as of Jan 30, 2015 **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.
12. ESI Hot Paper: **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
13. ESI Hot Paper: **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.

14. ESI Highly Cited Paper: "A Survey of Green Mobile Networks: Opportunities and Challenges", ACM/Springer Mobile Networks and Applications, Vol. 17, No. 1, pp. 4-20, Feb. 2012.
15. ESI Highly Cited Paper: "Rethinking energy efficiency models of cellular networks with embodied energy", IEEE Network, Vol. 25, No. 2, pp. 40-49, 2011.
16. ESI Highly Cited Paper: X. Wang, **Min Chen** (corresponding author), et al., "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.
17. ESI Highly Cited Paper: **Min Chen**, et al. "Big Data: A Survey", ACM/Springer Mobile Networks and Applications, Vol. 19, No. 2, pp. 171-209, April 2014.
18. ESI Highly Cited Paper: **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.
19. ESI Highly Cited Paper: **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. 6, pp. 18-24, June 2015.
20. ESI Highly Cited Paper: **Min Chen**, Y. Zhang, Y. Li, S. Mao, V. Leung, "EMC: Emotion-aware Mobile Cloud Computing in 5G", IEEE Network, Vol. 29, No. 2, pp. 32-38, Mar. 2015.
21. ESI Highly Cited Paper: **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.
22. ESI Highly Cited Paper: "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.
23. ESI Highly Cited Paper: **Min Chen**, et al. "Body Area Networks: A Survey", ACM/Springer Mobile Networks and Applications, Vol. 16, No. 2, pp. 171-193, April 2011.
24. ESI Highly Cited Paper: **Min Chen**, et al. "Cloud-based Wireless Network: Virtualized, Reconfigurable, Smart Wireless Network to Enable 5G Technologies", ACM/Springer Mobile Networks and Applications, Vol. 20, No. 6, pp. 704-712, Dec. 2015.
25. ESI Highly Cited Paper: **Min Chen**, et al. "Software-Defined Mobile Networks Security", ACM/Springer Mobile Networks and Applications, Vol. 21, No. 5, pp. 729 - 743, 2016.
26. ESI Highly Hot Paper: Y. Zhang, **Min Chen**, (*corresponding author), D. Huang, D. Wu, Y. Li, "iDoctor: Personalized and Professionalized Medical Recommendations Based on Hybrid Matrix Factorization", Future Generation Computer Systems, Vol. 66, pp. 30-35, Jan. 2017.
27. ESI Highly Cited Paper: 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.
28. A Survey on Internet of Things From Industrial Market Perspective", IEEE Access, Vol. 2, pp. 1660-1679, 2014. Among the most popular paper in IEEEExplore
29. **Min Chen**, et al., "Disease Prediction by Machine Learning over Big Healthcare Data", IEEE Access, Vol. 5, No. 1, pp. 8869-8879, 2017. Among the most popular paper in IEEEExplore.

30. "IEEE Communications Surveys and Tutorials 16(1) 2014, IF:17.188" Best Academic Paper in Hubei Province.
31. Rank 1st among 1200+ papers since the foundation of ACM MONET at 1999 [ACM MONET 16(2) 2011, IF:3.259] SCI citations: 451 times.
32. Rank 2nd among 1200+ papers since the foundation of ACM MONET at 1999 [ACM MONET 19(2) 2014, IF:3.259] SCI citations: 391 times.
33. **Min Chen**, et al. "Software-Defined Mobile Networks Security", ACM/Springer Mobile Networks and Applications , Vol. 21, No. 5, pp. 729 - 743, 2016. Selected as the 21st Annual Best of Computing by ACM Computing Reviews.
34. ESI Highly Cited Paper: **Min Chen**, et al., "Wearable 2.0: Enable Human-Cloud Integration in Next Generation Healthcare System", IEEE Communications , Vol. 55, No. 1, pp. 54-61, Jan. 2017.
35. ESI Highly Cited Paper: Y. Li, **Min Chen**, (*corresponding author), "Software-Defined Network Function Virtualization: A Survey", IEEE Access, Vol. 3, pp. 2542-2553, 2015.
36. ESI Highly Cited Paper: **Min Chen**, P. Zhou, G. Fortino, "Emotion Communication System", IEEE Access , Vol. 5, pp. 326-337, 2017.
37. ESI Highly Cited Paper: **Min Chen**, et al., "Smart Clothing: Connecting Human with Clouds and Big Data for Sustainable Health Monitoring", ACM/Springer Mobile Networks and Applications, Vol. 21, No. 5, pp. 825 - 845, 2016.
38. **Min Chen**, Y. Miao, Y. Hao, K. Hwang, "Narrow Band Internet of Things", IEEE Access , Vol. 5, pp. 20557-20577, 2017. Among the most popular paper in IEEExplore
39. ESI Highly Cited Paper: 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.
40. Recommended by Elsevier, and in the list of "Article Selection Celebrating Computer Science Research in China": Y. Zhang, **Min Chen**, (*corresponding author), D. Huang, D. Wu, Y. Li, "iDoctor: Personalized and Professionalized Medical Recommendations Based on Hybrid Matrix Factorization", Future Generation Computer Systems, Vol. 66, pp. 30-35, Jan. 2017.
41. 2017 Best Undergraduate Textbook Award at HUST: **Min Chen**, "Introduction to Cognitive Computing".

Selected TextBook:

1. **Min Chen**, "Deep Learning and Cognitive Computing", China Machine Press, ISBN: 978-7-111-58496-4, 2018.
2. K. Hwang, **Min Chen**, Big Data Analytics for Cloud/IoT and Cognitive Computing, Wiley, U.K., ISBN: 9781119247029, 2017.
3. K. Hwang, **Min Chen**, "Introduction to Cognitive Computing", HUST Press, ISBN: 978-7-5680-2808-0, 2017.

Graduated Ph.D students and Post-docs:

1. Yin Zhang (Postdoc 2015) - Director, Cognitive Computing and Intelligent Services Lab (CCIS-Lab), Zhongnan University of Economics and Law, China
2. Long Hu (Ph.D 2017) - Vice Director, EPIC Lab, Assistant Professor, Huazhong University of Science and Technology, China
3. Yixue Hao (Ph.D 2017) - Postdoctoral Teacher, Huazhong University of Science and Technology, China
4. Yujun Ma (Ph.D 2016) - Visiting Assistant Professor, The University of British Columbia, Canada
5. Xiaobo Shi (Ph.D 2017) - Associate Professor, Henan Normal University, China
6. Junfeng Wang (Ph.D 2016) - Associate Professor, Zhengzhou University, China
7. Ying Hu (Postdoc 2016) - Associate Professor, Hubei University Of Education, China
8. Xuan Zhu (Postdoc 2017) - Associate Professor, Central China Normal University, China

Selected Publications: IEEE Trans & Magazine

1. **Min Chen**, W. Li, G. Fortino, Y. Hao, L. Hu, I. Humar, "A Dynamic Service-Migration Mechanism in Edge Cognitive Computing", *ACM Transactions on Internet Technology*, Vol. 19, No. 2, Article 30, 2019.
2. Yixue Hao, Long Hu, Yongfeng Qian, **Min Chen**, "Profit Maximization for Video Caching and Processing in Edge Cloud", *IEEE Journal on Selected Areas in Communications*, Vol. 37, No. 7, pp.1632-1641, May 2019.
3. **Min Chen**, Y. Miao, X. Jian, X. Wang, L. Hu, "Cognitive-LPWAN: Towards Intelligent Wireless Services in Hybrid Low Power Wide Area Networks", *IEEE Trans. Green Communications and Networking*, Vol. 3, No. 2, pp. 407-417, June 2019.
4. D. Tian, Y. Zhu, X. Duan, J. Hu, Z. Sheng, **Min Chen**, J. Wang, Y. Wang, "An Effective Fuel Level Data Cleaning And Repairing Method for Vehicle Monitor Platform", *IEEE Transactions on Industrial Informatics*, Vol. 15, No. 1, pp. 410-422, 2019.
5. **Min Chen**, X. Shi, Y. Zhang, D. Wu, M. Guizani, "Deep Features Learning for Medical Image Analysis with Convolutional Autoencoder Neural Network", *IEEE Trans. Big Data*, DOI:10.1109/TBDATA.2017.2712017, 2017.
6. X. Wang, **Min Chen** (corresponding author) , V. Leung, Z. Han, K. Hwang, "Integrating Social Networks with Mobile D2D Services", *IEEE Trans. Service Computing*, DOI: 10.1109/TSC.2018.2867437, 2018.
7. L. Hu, W. Li, J. Yang, G. Fortino, **Min Chen** (*corresponding author) , "Multi-modal Multi-layer Emotion Analysis at the Edge", *IEEE Trans. Sustainable Computing*, accepted, 2018.
8. L. Liao, V. Leung, **Min Chen**, "An Efficient and Accurate Link Latency Monitoring Method for Low Latency Software Defined Networks", *IEEE Transactions on Instrumentation & Measurement*, Vol. 68, No. 2, pp. 377-391, Feb. 2019.

9. J. Chen, C. Wang, Z. Zhao, **Min Chen**, R. Du, G. Ahn, "Semantics-Aware Privacy Risk Assessment Using Self-Learning Weight Assignment for Mobile Apps", *IEEE Trans. Dependable and Secure Computing*, DOI: 10.1109/TDSC.2018.2871682, 2018.
10. Y. Hao, J. Yang, **Min Chen**, M. Hossain, A. Ghoneim, "Emotion-aware Video QoE Assessment via Transfer Learning", *IEEE Multimedia*, Vol. 26, No. 1, 31-40, 2019.
11. Y. Zhang, Y. Qian, D. Wu, M. Hossain, A. Ghoneim, **Min Chen**, "Emotion-aware multimedia system security", *IEEE Trans. Multimedia*, Vol. 21, No. 3, pp. 617-624, Mar. 2019.
12. **Min Chen**, Y. Jiang, Y. Cao, A. Zomaya, "CreativeBioMan: Brain and Body Wearable Computing based Creative Gaming System", *IEEE Systems, Man, and Cybernetics Magazine*, arXiv:1906.01801, 2019.
13. X. Wang, Y. Han, C. Wang, Q. Zhao, X. Chen, **Min Chen** (*corresponding author), "In-Edge AI: Intelligentizing Mobile Edge Computing, Caching and Communication by Federated Learning", *IEEE Network*, <https://arxiv.org/pdf/1809.07857.pdf>, 2018.
14. **Min Chen**, Y. Hao, "Task Offloading for Mobile Edge Computing in Software Defined Ultra-dense Network", *IEEE Journal on Selected Areas in Communications*, Vol. 36, No. 3, pp. 587-597, Mar. 2018.
15. **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*, Vol. 11, No. 3, pp. 549-561, 2018.
16. **Min Chen**, Y. Hao, L. Hu, M. Hossain, A. Ghoneim, "Edge-CoCaCo: Towards Joint Optimization of Computation, Caching and Communication on Edge Cloud", *IEEE Wireless Communications*, Vol. 25, No. 3, pp. 21-27, June 2018.
17. **Min Chen**, J. Yang, J. Zhou, Y. Hao, J. Zhang, C. Youn, "5G-Smart Diabetes: Towards Personalized Diabetes Diagnosis with Healthcare Big Data Clouds", *IEEE Communications*, Vol. 56, No. 4, pp. 16-23, April 2018.
18. **Min Chen**, Y. Zhang, M. Qiu, N. Guizani, Y. Hao, "SPHA: Smart Personal Health Advisor Based on Deep Analytics", *IEEE Communications*, Vol. 56, No. 3, pp. 164-169, Mar. 2018.
19. **Min Chen**, Y. Hao, K. Lin, L. Hu, Z. Yuan, "Label-less Learning for Traffic Control in an Edge Network", *IEEE Network*, Vol. 32, No. 6, pp. 8-14, 2018.
20. M. Zeng, T. Lin, **Min Chen**, H. Yan, J. Huang, J. Wu, Y. Li, "Temporal-Spatial Mobile Application Usage Understanding and Popularity Prediction for Edge Caching", *IEEE Wireless Communications*, Vol. 25, No. 3, pp. 36-42, June 2018.
21. Y. Zhou, X. Gu, D. Wu, **Min Chen**, T. Chan, S. Ho, "Statistical Study of View Preferences for Online Videos With Cross-Platform Information", *IEEE Trans. Multimedia*, Vol. 20, No. 6, pp. 1512-1524, 2018.

22. D. Tian, J. Zhou, **Min Chen**, Z. Sheng, Q. Ni, V. Leung, "Cooperative Content Transmission for Vehicular Ad Hoc Networks using Robust Optimization", *IEEE INFOCOM 2018*, Honolulu, Apr. 15-19, 2018.
23. **Min Chen**, Y. Qian, Y. Hao, Y. Li, J. Song, "Data-Driven Computing and Caching in 5G Networks: Architecture and Delay Analysis", *IEEE Wireless Communications*, Vol. 25, No. 1, pp. 70-75, Feb. 2018.
24. D. Tian, Z. Dai, J. Zhou, X. Duan, Z. Sheng, **Min Chen**, Q. Ni, V. Leung "Optimal Epidemic Information Dissemination in Uncertain Dynamic Environment", *IEEE Wireless Communications Letter*, Vol. 7, No. 4, pp. 518-521, Aug. 2018.
25. 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*, Vol. 6, No. 2, pp. 401-413, 2018.
26. Z. Sheng, C. Mahapatra, V. Leung, **Min Chen**, P. Sahu, "Energy Efficient Cooperative Computing in Mobile Wireless Sensor Networks", *IEEE Trans. on Cloud Computing*, Vol. 6, No. 1, pp. 114-126, 2018.
27. D. Tian, J. Wei, J. Zhou, Z. Sheng, **Min Chen**, N. Qiang, V. Leung, "From Cellular Decision Making to Adaptive Handoff in Heterogeneous Wireless Networks", *IEEE Wireless Communications Letters*, Vol. 7, No. 1, pp. 2-5, 2018.
28. W. Huang, Y. Zhou, X. Xie, D. Wu, **Min Chen**, E. Ngai, "Buffer State is Enough: Simplifying the Design of QoE-Aware HTTP Adaptive Video Streaming", *IEEE Transactions on Broadcasting*, Vol. 64, No. 2, pp. 590-601, 2018.
29. J. Chen, K. He, Q. Yuan, **Min Chen**, R. Du, Y. Xiang, "Blind Filter at Third Parties: An Efficient Privacy-Preserving Framework for Location-Based Services", *IEEE Trans. Mobile Computing*, Vol. No. 11, pp. 2524-2535, Nov. 2018.
30. K. Samdanis, A. Prasad, **Min Chen**, K. Hwang, "Enabling 5G Verticals and Services through Network Softwarization and Slicing", *IEEE Communications Standards Magazine*, Vol. 2, No. 1, pp. 20-21, March 2018.
31. S. Kim, S. Park, **Min Chen**, C. Youn, "An Optimal Pricing Scheme for the Energy Efficient Mobile Edge Computation Offloading with OFDMA", *IEEE Communications Letters*, Vol. 22, No. 9, pp. 1922-1925, Sep. 2018.
32. L. Hu, Y. Qian, **Min Chen**, M. Hossain, G. Muhammad, "Proactive Cache-based Location Privacy Preserving for Vehicle Networks", *IEEE Wireless Communications*, Vol. 25, No. 6, pp. 77-83, 2018.
33. **Min Chen**, J. Yang, L. Hu, M. Hossain, G. Muhammad, "Urban Healthcare Big Data System based on Crowdsourced and Cloud-based Air Quality Indicators", *IEEE Communications*, Vol. 56, No. 11, Nov. 2018.

34. **Min Chen**, Y. Hao, L. Hu, K. Huang, V. Lau, "Green and Mobility-aware Caching in 5G Networks", *IEEE Trans. Wireless Communications*, Vol. 16, No. 12, pp. 8347-8361, 2017.
35. **Min Chen**, Y. Ma, Y. Li, D. Wu, Y. Zhang, C. Youn, "Wearable 2.0: Enable Human-Cloud Integration in Next Generation Healthcare System", *IEEE Communications*, Vol. 55, No. 1, pp. 54-61, Jan. 2017.
36. K. Gai, M. Qiu, **Min Chen**, H. Zhao, "SA-EAST: Security-Aware Efficient Data Transmission for ITS in Mobile Heterogeneous Cloud Computing", *ACM Transactions on Embedded Computing Systems*, Vol. 16, No. 2, pp. 1-22, 2017.
37. D. Tian, J. Zhou, Z. Sheng, **Min Chen**, Q. Ni, V. Leung, "Self-organized Relay Selection for Cooperative Transmission in Vehicular Ad-hoc Networks", *IEEE Trans. Vehicular Technology*, Vol. 66, No. 10, pp. 9534-9549, Oct. 2017.
38. Y. Zhang, **Min Chen**, N. Guizani, D. Wu, V. Leung, "SOVCAN: Safety-Oriented Vehicular Controller Area Network", *IEEE Communications*, Vol. 55, No. 8, pp. 94-99, Aug 2017.
39. J. Zhang, L. Xiang, D. Ng, M. Jo, **Min Chen**, "Energy Efficiency Evaluation of Multi-tier Cellular Uplink Transmission under Maximum Power Constraint", *IEEE Trans. Wireless Communications*, Vol. 16, No. 11, pp. 7092-7107, 2017.
40. 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*, Vol. 27, No. 8, pp. 1777-1789, 2017.
41. 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.
42. 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.
43. 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.
44. 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.
45. 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.
46. 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.

47. 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.
48. **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.
49. 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.
50. 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.
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193. **Min Chen**, G. Wei. (2004) "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, pp. 158-167, Vol. 50, No.1, (ISSN: 0098-3063, 0.6) Feb, 2004. (SCI)
194. Y. Hua, **Min Chen**, and G. Wei. (2003) "Distribution of the PAR in DMT systems", IEEE Electronics Letters, Vol. 39, No. 10, pp. 799-801, May. 2003. (SCI)
195. 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, DOI: 10.1109/TII.2015.2389656, 2015.
196. I. Son, S. Mao, Y. Li, **Min Chen**, M. Gong, and Theodore (Ted) S. Rappaport, "Frame-based medium access control for 5G wireless networks," ACM/Springer Mobile Networks and Applications, DOI: 10.1007/s11036-014-0565-0, 2015. (Popular Content of this publication, as of Jan 30, 2015)

Refereed Journal Publications (In Chinese):

1. S. Yang, H. Shi, **Min Chen**. (2005) "Study and Simulation of QoS-based Routing for Wireless Sensor Networks". Journal of Sensors and Actuators, Vol.18, No.3, pp.454-459.
2. **Min Chen**, G. Wei. (2004) "A novel scheduling algorithm for Real-time VBR video transmission over IP DiffServ Networks". Journal of Computer Research and Development, Vol.41, No.5, pp. 821-827. (Ph.D. work)
3. **Min Chen**, G. Wei. (2004) "OPNET IEEE 802.11 WLAN Modeling and Performance Testing". Computer Engineering, Vol. 30, No. 21, pp. 14-16. (Ph.D work)
4. Y. Hua, **Min Chen**, and G. Wei. (2003) "Distribution of the PAR in DMT systems". IEE Electronics Letters, Vol. 39, No. 10, pp. 799-801. (Ph.D work)
5. X.Zhu, **Min Chen**, Y. Yu. (2003) "Video Transmission over IP DiffeServ Networks", Computer Engineering and Application, Vol. 2003, No. 32, pp. 140-143. (Ph.D work)
6. X.Zhu, **Min Chen**, Y. Yu. (2003) "A Novel Hybrid ARQ with Conditional Frames Skipped Algorithm for Real-Time Video Transmission", Computer Engineering and Application. Vol. 2003, pp. 23-27. (Ph.D work)
7. **Min Chen**, X. Zhu, G. Wei. (2003) "A Network Model Fitting MPEG-4 Video Transmission over IP Differentiated Services". Computer Engineering and Application, Vol. 20, pp. 53-58.
8. **Min Chen**, J. Zhang, G. Wei. (2003) "OPNET Radio Model". Computer Engineering and Application, Vol. 2003, No. 25, pp. 62-70. (Ph.D. work)

Book

1. **Min Chen**. (2015) OPNET IoT Network Simulation. Press of Huazhong University of Science and Technology, 371 pages.

2. **Min Chen**, S. Mao, Y. Zhang, V. Leung. (2014) Big Data: Related Technologies, Challenges and Future Prospects. SpringerBriefs in Computer Science, Springer, ISBN 978-3-319-06245-7, United States.
3. **Min Chen**. (2004) OPNET Network Simulation. Press of Tsinghua University, ISBN 7-302-08232-4, 352 pages. (Citation # by Google Scholar: 419)

Book Chapters

1. S. Gonzalez, **Min Chen** and V. Leung, "Applications of Mobile Agents in Wireless Networks and Mobile Computing", Advances in Computers, Vol. 82, ISBN: 9780123855121, 2011.
2. S. Gonzalez, X. Liang, H. Cao, **Min Chen** and V. Leung, "Body area networks (BAN)", Springer Series on Chemical Sensors and Biosensors: Autonomous Sensor Networks, 2011.
3. **Min Chen**, W. Ji, X. Wang, W. Cai, L. Liao, "Opportunistic Routing for Load-balancing and Reliable Data Dissemination in Wireless Sensor Networks", Mobile Opportunistic Networks, Auerbach Publications Press, ISBN: 978-1-4200-8812-0, 03/15/2010.
4. **Min Chen**, S. Mao, V.C.M. Leung "Cooperative Geographical Routing in Wireless Sensor Networks", edited by Profs. Yang Xiao, Hui Chen, and Frank H. Li, to be published by World Scientific Publishing Co., 2009.
5. Y. Zhang, Y. Xiao, **Min Chen**, P. Bahri and M. Kamboj, "Medium Access Control Layer for Underwater Sensor Networks", Underwater Acoustic Sensor Networks, Publisher: Auerbach Publications; 1 edition (April 15, 2009), ISBN-10: 1420067117, ISBN-13: 978-1420067118
6. **Min Chen**, S. Mao, Y. Yuan and V. Leung "Video Communications Over Wireless Sensor Networks", Broadband Mobile Multimedia: Techniques and Applications. New York, NY: CRC Press, 2008. ISBN-10: 1420051849; ISBN-13: 978-1-4200-5184-1.
7. **Min Chen**, S. Mao, Y. Yuan, "Real time Video Transmission over Wireless Sensor Networks", in Broadband Mobile Multimedia, Techniques and Applications, Y. Zhang, et. al. (Editors), New York, NY: Auerbach Publications, CRC Press, Taylor and Francis Group, 2007.
8. Y. Yuan, **Min Chen**, "Cross Layer Design for Wireless Sensor Networks with Virtual MIMO", in Distributed Antenna Systems: Open Architecture for Future Wireless Communications, Y. Zhang, J. Luo, and H. Hu (Editors), New York, NY: Auerbach Publications, CRC Press, Taylor and Francis Group, 2006.

Refereed Conference Proceedings:

1. X. Wang, **Min Chen**, Z. Han, D. Wu, T. Kwon, "TOSS: Traffic Offloading by Social Network Service-Based Opportunistic Sharing in Mobile Social Networks", IEEE INFOCOM 2014, Toronto, Canada Apr. 27-May 2, 2014.
2. W. Cai, **Min Chen**, C. Zhou, V. Leung, H. Chan, "Resource Management for Cognitive Cloud Gaming", Sydney, Australia, June 10-14, 2014.
3. Tarik Taleb; Adlen Ksentini, **Min Chen**; "A Markov Decision Process-based Service Migration Procedure for Follow Me Cloud", IEEE ICC 2014; pp. 1350 - 1354, Sydney; Australia; June 10-14, 2014.
4. X. Wang, **Min Chen**, Z. Han, D. Wu, T. Kwon, "TOSS: Traffic Offloading by Social Network Service-Based Opportunistic Sharing in Mobile Social Networks", IEEE INFOCOM 2014, Toronto, Canada Apr. 27-May 2, 2014.
5. Y. Zhang, L. Wang, X. Wang, **Min Chen**, "COMER: CIOud-based MEDicine Recommendation", QShine 2014, Rhodes, Greece, Aug. 18-19, 2014.

6. D. Mau, **Min Chen**, T. Taleb, X. Wang, V. Leung, "FGPC: Fine-Grained Popularity-based Caching Design for Content Centric Networking", The 17th ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (ACM MSWiM 2014), Montreal, Canada, Sep. 21-26, 2014.
7. Y. Huang, **Min Chen**, Z. Cai, X. Guan, C. Liu, T. Ohtsuki, "Capacity Analysis for Urban Vehicular Ad Hoc Networks with Graph-Theory Based Construction", In the IEEE Global Communication Conference (Globecom 2014), Huston, Texas, USA, December 8-12, 2014.
8. W. Cai, **Min Chen**, C. Zhou, V. Leung, H. Chan, "Resource Management for Cognitive Cloud Gaming", IEEE ICC 2013, Sydney, Australia, June 2014.
9. T. Taleb, A. Ksentini, "A Markov Decision Process-based Service Migration Procedure for Follow Me Cloud", IEEE ICC 2013, Sydney, Australia, June 2014.
10. B. Han, X. Wang, X. Chen, T. Kwon, Y. Choi, D. Mau, **Min Chen**, "PPP: Prefix-based Popularity Prediction for Effective Caching in Content-Centric Networking", ACM CFI 2014; Tokyo; Japan; June 18 - 20, 2014.
11. **Min Chen**, "AMVSC: A Framework of Adaptive Mobile Video Streaming in the Cloud", IEEE Globecom 2012, Anaheim, California, USA, Dec. 3-7, 2012.
12. X. Wang, **Min Chen**, Z. Han, T. Kwon, Y. Choi. (2012) "Content Dissemination by Pushing and Sharing in Mobile Cellular Networks: An Analytical Study", IEEE MASS 2012, Las Vegas, Nevada, USA, October 8-11, 2012.
13. X. Guan, **Min Chen**. (2011) "Trajectory Optimization of Packet Ferries in Sparse Mobile Social Networks", In the IEEE Global Communication Conference (Globecom 2011), Huston, Texas, USA, December 5-9, 2011.
14. C. Luo, F. Yu, **Min Chen**, L. Yang. (2011) 'Centralized Scheme for Joint Relay Selection and Channel Access in Partially-Sensed Cognitive Radio Cooperative Networks', In the IEEE Global Communication Conference (Globecom 2011), Huston, Texas, USA, December 5-9, 2011.
15. 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.
16. 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.
17. 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.
18. **Min Chen**, M. Guizani. (2011) Geographic Routing in Mobile Multimedia Sensor Networks. MobiWorld 2011, in Conjunction with the 30th IEEE International Conference on Computer Communications (Infocom 2011), Shanghai, China, April 10-15, 2011.
19. 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.
20. 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.
21. 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.

22. 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.
23. 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.
24. **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.
25. 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
26. **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.
27. 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.
28. 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.
29. **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.
30. 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.
31. 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.
32. 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 1237 - 1243, December 15-18, 2009.
33. 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.
34. 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.
35. **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.
36. 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 (PCSI' 09), Washington DC, USA, April 2009
37. **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)
38. **Min Chen**, S. González, Yan Zhang and V. Leung. (2009) "Multi-agent Itinerary Planning in Wireless Sensor Networks". QShine 2009.

39. **Min Chen**, V. Leung, L. Shu and Han-Chieh Chao. (2009) "On Multipath Balancing and Expanding for Wireless Multimedia Sensor Networks". FGCN 2009.
40. 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.
41. 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.
42. **Min Chen**, V. Leung and S. Mao. (2008) "Directed Controlled Fusion in Wireless Sensor Networks". QShine'08. (received Best Paper Runner Award - Post-doc work).
43. **Min Chen**, V. Leung, S. Mao and M. Li (2008) "Cross-layer and Path Priority Scheduling based Real-time Video Communications over WSNs", IEEE VTC' 08. (Post-doc work)
44. 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.
45. **Min Chen**, T. Kwon, and Y. Choi (2005) "Data Dissemination based on Mobile Agent in Wireless Sensor Networks ", IEEE LCN'05. (Post-doc work)
46. **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.
47. **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.
48. **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.
49. 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):

1. 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.
2. 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.
3. L. Shu, M. Hauswirth, H. Chao, **Min Chen**, Y. Zhang, "NetTopo: A Framework of Simulation and Visualization for Wireless Sensor Networks", Elsevier Ad Hoc Networks, Vol. 9, No. 5, pp. 799-820, Jul. 2011. (SCI)
4. 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.
5. 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)

6. 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.
7. 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:

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

Other Evidence of Impact and Contributions:

Journal Editorships:

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

12. Associate Editor, International Journal of Autonomous and Adaptive Communications Systems, 2009-present.
13. Associate Editor, International Journal of Arts and Technology (IJART), 2009-present.
14. Editorial board, The Journal of Information Processing Systems (JIPS), 2009-present.
15. Associate Editor, Wiley I. J. of Security and Communication Networks, SCIE indexed, 2010-present.
16. Editorial board, International Journal of E-Health and Medical Communications, 2009-present.
17. Associate Editor, Wireless Communications and Mobile Computing, SCIE indexed, 2010-present.
18. Editorial Board, International Journal of Sensor Networks (IJSNet) , 2010-present.
19. Editor, KSII Transactions on Internet and Information Systems (TIIS) , SCIE indexed, 2010-present.
20. Editor, Journal of Internet Technology, SCIE indexed, 2010-present.
21. Editor, Wiley I. J. of Wireless Communications and Mobile Computing, SCI indexed, 2010-present.
22. Editorial Board, IET Communications, SCI indexed, 2010-present.

International Conferences Organized:

1. General Co-Chair, 8th International Conference on Mobile Multimedia Communications (Mobimedia 2015), Chengdu, China, May 25-27, 2015.
2. TPC Chair, IEEE 16th International Conference on E-health Networking, Application & Services, (IEEE Healthcom 2015), Boston, USA, October 2015.
3. Steering Committee Co-Chair, The 4th International Conference on Cloud Computing (Cloud-Comp 2014), Guilin, China, Oct. 19-21, 2014.
4. Steering Committee Co-Chair, The 5th International Conference on Cloud Computing (Cloud-Comp 2015), Daejeon, Korea, October 2015.
5. TPC Co-Chair, International Conference on Cyber-enabled Distributed Computing and Knowledge Discovery (CyberC 2014), Shanghai, China, Oct. 10-12, 2014.
6. 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.
7. Co-Chair of IEEE ICC-Wireless Networks Symposium, Budapest, June 9-13, 2013.
8. General Co-Chair of the 12th IEEE International Conference on Computer and Information Technology (IEEE CIT-2012), Chengdu, Sichuan, China, Oc. 2012.
9. Co-Chair of IEEE ICC-Communication Theory Symposium, Ottawa, June 10-15, 2012.
10. Poster Chair, the Sixth International Conference on Body Area Networks (BodyNets 2011)
11. Chair for Digital Signal Processing as Applied to Wireless Symposium, 2011 IEEE Radio and Wireless Symposium (RWS 2011)
12. TPC Chair, the First ICST Conference on Green Communications and Networking (GreenNets 2011)
13. TPC Co-Chair, the Fifth International Conference on Body Area Networks (BodyNets 2010)
14. Workshop Co-Chair, 2010 Fourth International Conference on Communications and Networking in China (CHINACOM 2010)
15. Symposia Co-Chair, CHINACOM 2010, Aug. 2010.

16. Web Chair, ICST BodyNets, Corfu Island, Greece, September 10-12, 2010
17. TPC Co-chair, 2010 ICST Conference on Green Communications and Networking
18. TPC Co-chair, 2010 International Workshop on Green Communication of Cellular Networks (GCCN2010)
19. Workshop Chair, 2010 International Workshop on Ubiquitous Body Sensor Networks (UBSN-10)
20. TPC Co-chair, international Workshop on Pervasive Computing Systems and Infrastructures (PCSI 2009)
21. Publicity Chairs: WCNIS2010), PICom-09), WPS 2010, ICUMT 2010.
22. TPC Chair, 2009 International Workshop on Advanced Sensor Integration Technology (ASIT 2009)
23. Workshop Chair, 2009 International Workshop on Mobile, Multimedia, Ad Hoc & Sensor Networks (MMASN-09)
24. Session Chairs: IEEE ICC 2009, IEEE VTC 2008, ICST QShine 2008, ICST Trientcom 2009, ADHOCNETS 2010
25. 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:

1. Chair & Founder: IEEE Computer Society (CS) Special Technical Communities (STC) on Big Data (2014-present)
2. IEEE Senior Member (2009-present)
3. Committee Member, ICST Information Technologies Committee (2008-present)
4. 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.

Service:

1. Founding Editor-in-Chief, Big Data and Cognitive Computing
2. Corresponding GE, IEEE Wireless Communications (Impact Factor: 8.972) Special Issue on AI for Cognitive Wireless Communications, Submission Deadline: July 31, 2018.
3. Information Fusion (Impact Factor: 5.667) Special Issue on Information Fusion for Emotion-aware Intelligent Systems Submission Deadline: Feb 15, 2018.
4. IEEE Trans. Service Computing special issue on "Mobile Big Data Management and Innovative Applications" Dec. 2015.
5. IEEE Trans. Neural Networks and Learning Systems special issue on "Affective Services based on Representation Learning" , 2017.
6. IEEE IoT Journal special issue on "Cognitive Internet of Things", 2017.

7. Y. Zhang, **Min Chen**, "Cloud Based 5G Wireless Networks", SpringerBriefs in Computer Science, Springer, ISBN 978-3-319-47343-7, 2016.
8. 8th International Conference on Mobile Multimedia Communications (Mobimedia 2015), Chengdu, China, May 25-27, 2015.
9. 17th Intl. Conference on E-health Networking, Application & Services (IEEE Healthcom 2015), Oct., 2015.
10. IEEE Network special issue "Unveiling 5G Wireless Networks: Emerging Research Advances, Prospects, and Challenges"
11. IEEE Access special issue "5G Wireless Technologies: Perspectives of the Next Generation Mobile Communications and Networking"
12. ACM/Springer Mobile Networks & Applications (MONET) special issue "Mobile Cloud Media: Emerging Trends, Issues, and Challenges"
13. The 4th International Conference on Cloud Computing "CloudComp 2014"
14. 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.
15. IEEE Wireless Communications Magazine special issue "Mobile Cloud Computing "
16. IEEE Network special issue "Cloud-Assisted Mobile Computing and Pervasive Services "
17. The 4th International Conference on Cloud Computing "CloudComp 2013"
18. Healthcare Mobile Cloud System