

Curriculum Vitae – Min Chen

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1. Short Bio:

Min Chen is an assistant professor in School of Computer Science and Engineering at Seoul National University (SNU). He received the Ph.D degree in Electrical Engineering from South China University of Technology in 2004, when he was 23 years old. He has been a R&D Director for Confederal Network Inc., a Research Associate in the Dept. of Computer Science at University of British Columbia (UBC). He worked as a Post-Doctoral Fellow in Department of Electrical and Computer Engineering at UBC for three years, where his faculty advisor is Prof. Victor C.M. Leung. Before joining UBC, he was a Post-Doctoral Fellow at SNU for one and half years. He received the Best Paper Runner-up Award from QShine 2008. He was interviewed by Chinese Canadian Times where he appeared on the celebrity column in 2007.

He has more than 130 first-three-author papers including over 70 SCI/SCIE papers. Dr. Chen is the author of OPNET Network Simulation (Tsinghua University Press, 2004). He has served as session chairs for several IEEE conferences, including INFOCOM-2011, ICC-2011, ICC-2009, VTC-2008. He serves as TPC co-chair and web chair for BodyNets-2010, workshop co-chair for CHINACOM-2010 and CHINACOM-2011. He is the founder and co-chair for several international workshops, such as ASIT-09, UBSN-10, NCAS-11, UMES-11, etc. He serves as TPC members for many conferences, including INFOCOM-2012. He serves as editor or associate editor for 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.

He is Co-Chair of IEEE ICC 2012-Communications Theory Symposium, and Co-Chair of IEEE ICC 2013-Wireless Networks Symposium. Currently, he works as General Co-Chair for the 12th IEEE International Conference on Computer and Information Technology (IEEE CIT-2012). He is an IEEE Senior Member (2009).

2. Research Areas:

Currently, his research focuses on multimedia and communications, such as multimedia transmission over wireless network, wireless sensor networks, body sensor networks, RFID, ubiquitous computing, intelligent mobile agent, pervasive computing and networks, E-healthcare, medical application, machine to machine communications and Internet of Things, etc.

3. Professional Experience:

1. Sep/09-, Assistant Professor Computer Science and Engineering, Seoul National University, Seoul, Korea
2. Aug/10-Sep/10, Visiting Professor, School of Computing Science, Simon Fraser University, British Columbia, Canada
3. Mar/09-Aug/09, R&D Director, Confederal Network Inc., USA
4. Mar/06-Feb/09, Post-doctoral Fellow in Dept. of Electrical and Computer Engineering, University of British Columbia, Vancouver, Canada
5. Oct/04-Feb/06, Post-doctoral Fellow in Computer Science and Engineering, Seoul National University, Seoul, Korea

4. Selected Publications: Citations

Google Scholar citations > **1100** times, single-publication highest citations > **300** times, citations of top ten papers = **843** times.

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#: **44**)
2. 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#: **95**)
3. **Min Chen**, et. al., "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#: **63**)
4. **Min Chen**, et. al., "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#: **65**)
5. **Min Chen**, et. al., "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#: **61**)
6. **Min Chen**, et. al., "Mobile Agent Based Wireless Sensor Networks", *Journal of Computers*, Vol. 1, No. 1, pp. 14-21, April 2006. (Citation#: **67**)
7. **Min Chen**, et. al., "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#: **52**)
8. **Min Chen**, et. al., "Data Dissemination based on Mobile Agent in Wireless Sensor Networks ", *Proc. IEEE Local Computer Networks 2005*. (Citation#: **42**)
9. **Min Chen**, "OPNET Network Simulation", *Press of Tsinghua University*, 2004, ISBN 7-302-08232-4. (Citation#: **305**)
10. Y. Yuan and Min Chen and 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#: **49**)
11. **Min Chen**, et. al., "A 2G-RFID based E-healthcare System", *IEEE Wireless Communications Magazine*, Vol. 17, No. 1, pp. 37-43, Feb. 2010. (Citation#: **26**)

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. 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.
7. 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.
8. 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*, accepted, 2011

9. 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.
10. 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.
11. M. Qiu, H. Su, Min Chen, Balance of Security Strength and Energy for PMU Monitoring System in Smart Grid, *IEEE Communications Magazine*, accepted, 2012.
12. 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.
13. X. Wang, Min Chen, Y. Zhang, T. Kwon, "Characterizing the MMORPG Traffic: from Game Content to Network Access", *IEEE Network Magazine*, to appear, 2012.

Research Contributions (over the last 6 years):

Refereed Journal Publications (first-three-author):

1. **Min Chen**, V. Leung, S. Mao, Y. Xiao, Imrich Chlamtac. (2010) Hybrid Geographical Routing for Flexible Energy-Delay Trade-Off, *IEEE Transactions on Vehicular Technology*, vol.58, no.9, pp.4976-4988. (SCI)
2. **Min Chen**, S. Gonzalez, Qian Zhang, M. Li and V. Leung. (2010) A 2G-RFID based E-healthcare System, *IEEE Wireless Communications Magazine*, Vol. 17, No. 1, pp. 37-43. (SCI)
3. **Min Chen**, S. Gonzalez, Qian Zhang, Victor Leung. (2010) Software Agent-based Intelligence for Code-centric RFID Systems, *IEEE Intelligent Systems Magazine*, vol. 25, no. 2, pp. 12-19 (SCI)
4. **Min Chen**, S. Gonzalez and V. Leung. (2007) Applications and Design Issues of Mobile Agents in Wireless Sensor Networks. *IEEE Wireless Communications Magazine*. Vol. 14, No. 6, pp. 20-26. (SCI)
5. **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, Feb, 2004. (SCI)
6. **Min Chen**, S. Gonzalez, A. Vasilakos, H. Cao and Victor C.M. Leung (2011) Body Area Networks: A Survey, *ACM/Springer Mobile Networks and Applications (MONET)*, DOI: 10.1007/s11036-010-0260-8. (SCI)
7. **Min Chen**, Victor C.M. Leung, S. Mao. (2009) Directional Controlled Fusion in Wireless Sensor Networks. *ACM/Springer Mobile Networks and Applications (MONET)*, Vol. 14, No. 2, pp. 220-229. (SCI)
8. **Min Chen**, M. Qiu, L. Liao, Jongan Park, J. Ma. (2010) Distributed Multi-hop Cooperative Communication in Dense Wireless Sensor Networks", *Journal of Supercomputing*, DOI: 10.1007/s11227-010-0382-6. (SCI)
9. **Min Chen**, S. Gonzalez, H. Cao, Y. Zhang, and S. Vuong. (2010) Enabling Low Bit-rate and Reliable Video Surveillance over Practical Wireless Sensor Network, *Journal of Supercomputing*, DOI: 10.1007/s11227-010-0475-2 (SCI)
10. **Min Chen**, V. Leung, S. Mao and T. Kwon. (2009) RLRR: Receiver-oriented Load-balancing and Reliable Routing in Wireless Sensor Networks. *Wireless Communications and Mobile Computing (WCMC)*, Vol. 9, No. 3, pp. 405-416. (SCIE)
11. **Min Chen**, T. Kwon, Y. Yuan, Y. Choi, and V. Leung. (2007) MADD: Mobile-agent-based Directed Diffusion in Wireless Sensor Networks. *EURASIP Journal on Applied Signal Processing*. DOI: 10.1155/2007/36871. (SCI)
12. **Min Chen**, V. Leung, S. Mao, Y. Yuan. (2007) DGR: Directional Geographical Routing for Real-Time Video Communications in Wireless Sensor Networks. *Computer Communications*. Vol. 30, No. 17, pp. 3368–3383. (SCI)
13. **Min Chen**, T. Kwon, and Y. Choi. (2006) EDDD: Energy-efficient Differentiated Directed Diffusion for Real-Time Traffic in Wireless Sensor Networks. *Computer Communications*. Vol. 29, No.2, pp. 231-245. (SCI)
14. **Min Chen**, V. Leung, L. Shu, H. Chao. (2010) On Multipath Balancing and Expanding for Wireless Multimedia Sensor Network, *International Journal of Ad Hoc and Ubiquitous Computing (IAHUC)*, Vol. 6, No. 6, 2010. (SCIE)

15. **Min Chen**, X. Wang, V. Leung, Y. Yuan. (2006) VCR:Virtual Coordinates Routing in Wireless Sensor Networks. *Sensor Letters*. Vol.4, pp.325-330. (SCI)
16. **Min Chen**, S. Mao, Y. Xiao, M. Li, V. Leung. (2009) IPSA: A Novel Architecture for Integrating IP and Sensor Networks, " *International Journal on Sensor Networks*. Vol.5, No.1, pp. 48-57. (EI)
17. **Min Chen**, L. Shu. (2009) Context-aware Multimedia Services in Ambient Intelligent Environments," *IEEE COMSOC MMTC E-Letter*.
18. **Min Chen**, T. Kwon, S. Mao and V. Leung. (2009) STEER: Spatial-Temporal Relation-Based Energy-Efficient Reliable Routing Protocol in Wireless Sensor Networks. *International Journal on Sensor Networks*. Vol.5, No.2. (Post-doc work). (EI)
19. **Min Chen**, T. Kwon, Y. Yuan, V. Leung. (2006) MAWSN:Mobile Agent Based Wireless Sensor Networks. *Journal of Computers*, Vol. 1, No. 1, pp. 14-21. (EI)
20. **Min Chen**, T. Kwon, Y. Yuan, V. Leung. (2006) MAWSN:Mobile Agent Based Wireless Sensor Networks. *Journal of Computers*, Vol. 1, No. 1, pp. 14-21. (EI)
21. **Min Chen**, T. Kwon, S. Mao, Y. Yuan, and V. Leung. (2008) REER:Reliable and Energy-Efficient Routing Protocol in Dense Wireless Sensor Networks. *International Journal on Sensor Networks*. Vol.4, No.1/2, pp.104-117. (EI)
22. **Min Chen** and T. Kwon. (2010) Itinerary Planning for Energy-efficient Agent Communication in Wireless Sensor Networks, *IEEE Transactions on Vehicular Technology*, in revision. (SCI)
23. **Min Chen**, X. Wang, T. Kwon, H. Chao. (2010) Multiple Mobile Agents Itinerary Planning in Wireless Sensor Networks: Survey and Evaluation, *IET Communications*, accepted. (SCI)
24. S. Gonzalez, **Min Chen** and V. Leung. (2010) Programmable Middleware for Wireless Sensor Networks Applications Using Mobile Agents, *ACM/Springer Mobile Networks and Applications (MONET)*, DOI: 10.1007/s11036-010-0237-7. (SCI)
25. Y. Yuan, **Min Chen**, and T. Kwon. (2006) A Novel Cluster Based Cooperative MIMO Scheme for Multi-hop Wireless Sensor Networks. *EURASIP Journal on Wireless Communications and Networking*. doi:10.1155/WCN/2006/72493. (SCIE)
26. Y. Yuan and **Min Chen**. (2006) Mixture Integer Programming Based Optimal Transmission Policy Design for Multiple Applications in Wireless Sensor Networks. *Sensor Letters*. Vol.4, No.3, pp. 266-274. (SCI)
27. M. Qiu, **Min Chen**, M. Liu, M. Lin, X. Liu and Y. Zhu, (2009) Online energy-saving algorithm for sensor networks in dynamic changing environments, *Journal of Embedded Computing*, Vol. 3, pp. 289-298, 2009. (SCI)
28. W. Ji, **Min Chen**, X. Ge, Y. Chen. (2010) ESVD: A Integrated Energy Scalable Framework for Low Power Video Decoding Systems, *EURASIP Journal on Wireless Communications and Networking*, DOI:10.1155/2010/567952. (SCI)
29. W. Ji, **Min Chen**, X. Ge, P. Li, Y. Chen. (2010) A Perceptual Macroblock Layer Power Control for Energy Scalable Video Encoder Based on Just Noticeable Distortion Principle, *Journal of Network and Computer Applications*, DOI:10.1016/j.jnca.2010.06.011. (SCI)
30. K. Lin, **Min Chen** and X. Ge. (2010) Adaptive Reliable Routing Based on Cluster Hierarchy for Wireless Multimedia Sensor Networks, *EURASIP Journal on Wireless Communications and Networking*, DOI:10.1155/2010/567952. (SCI)
31. L. Zhou, **Min Chen**, Z. Yu, J. Rodrigues, H. Chao. (2010) Cross-Layer Wireless Video Adaptation: Tradeoff between Distortion and Delay, *Computer Communications*, 10.1016/j.comcom.2010.05.002 (SCI)
32. Y. Hua, **Min Chen**, and G. Wei. (2004) Distribution of the PAR in DMT systems, *IEE Electronics Letters*, Vol. 39, No. 10 (SCI)
33. X. Liang, **Min Chen**, Y. Xiao, I. Balasingham and V. Leung. (2010) MRL-CC: A Novel Cooperative Communication Protocol for QoS Provisioning in Wireless Sensor Networks, *International Journal on Sensor Networks*. Vol.8, No.2, pp.98-108, 2010. (EI)
34. W. Ji, **Min Chen**, J. Park, N. Xiong, Y. Chen. (2010) Distributed video coding: An Overview of Basics, Research", *International Journal of AD Hoc and Ubiquitous Computing (IJAHUC)*, to appear (SCIE)
35. K. Lin, **Min Chen**, S. Zeadally, J. Rodrigues (2010) Balancing Energy Consumption with Mobile Agents in Wireless Sensor Networks, *Future Generation Computer Systems*, doi:10.1016/j.future.2011.03.001, 2011. (SCI)

36. X. Zhu, **Min Chen**. (2007) Strategic Distance Based Routing in Wireless Sensor Networks. *Journal of Sensors and Actuators*. Vol. 20, No. 8, pp. 1865-1869. (EI)
37. J. Wang, **Min Chen**, V. Leung. (2010) A Price-Based Approach to Optimize Resource Sharing between Cellular Data Networks and WLANs, *Springer Journal of Telecommunication Systems*, to appear (SCI)
38. X. Liang, **Min Chen**, I. Balasingham, Victor C.M. Leung (2010) Cooperative Communications with Relay Selection for Wireless Sensor Networks: Design Issues and Applications, *Wireless Communications and Mobile Computing* (WCMC), DOI: 10.1002/wcm.1138, 2011. (SCI)
39. K. Lin, **Min Chen** (2010) Energy Equilibrium Based on Corona Structure for Wireless Sensor Networks, *Wireless Communications and Mobile Computing* (WCMC), to appear (SCI)
40. X. Liu, **Min Chen**, W. Tang, C. Yu (2011) Hybrid Non-Reference Video Quality Measurement for Network Services QoE, *KSII Transactions on Internet and Information Systems*, pp. 592 - 606, Mar. 2011. (SCIE)
41. L. Shu, **Min Chen** (2010) Multimedia over Sensor Networks, *IEEE COMSOC MMTC E-Letter*
42. W. Cai, **Min Chen**, T. Hara, L. Shu, T. Kwon. (2010) A Genetic Algorithm Approach to Multi-Agent Itinerary Planning in Wireless Sensor Networks, *ACM/Springer Mobile Networks and Applications (MONET)*. DOI: 10.1007/s11036-010-0269-z (SCI)
43. L. Liao, **Min Chen**, J. Rodrigues, X. Lai, and Son T. Vuong (2010) A novel web-enabled healthcare solution on HealthVault system, *Journal of Medical Systems*, DOI: 10.1007/s10916-010-9572-2, 2010. (SCIE)
44. S. Gonzalez, **Min Chen** and V. Leung. (2010) Mobility Support for Health Monitoring at Home Using Wearable Sensors ", *IEEE Transactions on Information Technology in BioMedicine*, in revision. (SCI)
45. W. Ji, J. Liu, **Min Chen**, Y. Chen. (2011) Power-efficient Video Encoding: A Game-Theoretic Approach, *Future Generation Computer Systems*, doi:10.1016/j.future.2011.04.002, 2011. (SCI)
46. M. Li, J. Harris, **Min Chen**, S. Mao, Yang Xiao. (2009) Architecture and Protocol Design for A Pervasive Robot Swarm Communication Networks. *Wireless Communications and Mobile Computing*, DOI: 10.1002/wcm.856. (SCIE)
47. Y. Yuan, Z. Yang, **Min Chen** and J. He. (2006) A Survey on Information Processing Technologies in Wireless Sensor Networks. *International Journal of Ad hoc and Ubiquitous Computing*. Vol. 1 No. 3, pp. 103-109. (SCIE)
48. C. Lai, Y. Huang, **Min Chen** (2010) Design and Integration of the OpenCore Based Mobile TV Framework for DVB-H/ T Wireless Network, *ACM /Springer Multimedia Systems (ACM MMSJ)*, accepted (SCI)
49. Y. Yuan, Z. He, and **Min Chen**. (2006) Virtual MIMO-based Cross Layer Design for Wireless Sensor Networks. *IEEE Transactions on Vehicular Technology*. Vol. 53, No.3, pp. 856-864 (SCI)
50. **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*, DOI: 10.1109/TVT.2011.2134116, April 2011 (SCI)
51. 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*, accepted, 2011. (SCI)
52. X. Wang, **Min Chen**, Y. Zhang, T. Kwon, "Characterizing the MMORPG Traffic: from Game Content to Network Access", *IEEE Network Magazine*, to appear, 2012. (SCI)
53. Y. Zhang, H. Chao, **Min Chen**, L. Shu, C. Park, M. Park, "Outlier detection and countermeasure for hierarchical wireless sensor networks", Vol. 4, No. 4, pp. 361-373, Dec. 2010. (SCI)
54. C. Lai, **Min Chen**, "Playback-Rate Based Streaming Services for Maximum Network Capacity in IP Multimedia Subsystem", *IEEE System Journal*, DOI: 10.1109/JSYST.2011.2165190, 2011. (SCI)
55. Y. Zhang, Y. Xiao, **Min Chen**, J. Zhang, and H. Deng, "A Survey of Security Visualization for Computer Network Logs," (*Wiley Journal of) Security and Communication Networks*, accepted, 2011. (SCI)
56. L. Cheng, W. Jiao, **Min Chen**, C. Chen, J. Ma, "Wait, Focus and Spray: Efficient Data Delivery in Wireless Sensor Networks with Ubiquitous", *Springer Journal of Telecommunication Systems*, accepted, 2011. (SCI)
57. C. Tsai, W. Li, **Min Chen**, W. Hsieh, C. Yang, "Analysis of Multi-Path Random Key Pre-Distribution for Wireless Sensor Networks", *Mathematical and Computer Modelling* (Elsevier, ISSN: 0895-7177), to appear, 2011. (SCI)
58. W. Tang, **Min Chen**, J. Ni, X. Yang, "Security Enhancement Mechanism based on contextual authentication and role analysis for 2G-RFID systems", *Sensors*, Vol. 11, No. 7, pp.6743-6759, 2011. (SCI)
59. X. Wang, **Min Chen**, T. Kwon, H. Chao, "Multiple Mobile Agents Itinerary Planning in Wireless Sensor Networks: Survey and Evaluation", *IET Communications*, accepted, 2010. (SCI)

60. **Min Chen**, J. Guan, H. Liu, "Enabling Fast Brain-Computer Interaction by Single-Trial Extraction of Visual Evoked Potentials", *Journal of Medical Systems*, DOI: 10.1007/s10916-011-9696-z. (SCI)
61. J. Wang, **Min Chen** and V. Leung, "Forming Priority Based and Energy Balanced ZigBee Networks - A Pricing Approach", *Springer Telecommunications Systems*, accepted, 2011. (SCI)
62. X. Wang, A. Vasilakos, **Min Chen**, Y. Liu and T. Kwon, "A Survey of Green Mobile Networks: Opportunities and Challenges", *ACM/Springer Mobile Networks and Applications*, DOI: 10.1007/s11036-011-0316-4, 2011. (SCI)
63. 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*, doi:10.1016/j.jnca.2011.03.033. (SCI)
64. Kai Lin and **Min Chen**, "Energy Efficient Data Collection with Mobile Agent in Wireless Multimedia Sensor Networks", *EURASIP Journal on Wireless Communications and Networking*, to appear, 2011. (SCI)
65. **Min Chen** and C. Lai, "Mobile Multimedia Sensor Networks: Architecture and Routing", *EURASIP Journal on Wireless Communications and Networking*, to appear, 2011. (SCI)
66. 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. (SCI)
67. M. Qiu, H. Su, Min Chen, "Balance of Security Strength and Energy for PMU Monitoring System in Smart Grid", *IEEE Communications Magazine*, accepted, 2012.

Refereed Journal Publications (In Chinese):

68. 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.
69. **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)
70. **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)
71. 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)
72. 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)
73. 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)
74. **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.
75. **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

76. **Min Chen**. (2004) OPNET Network Simulation. *Press of Tsinghua University*, ISBN 7-302-08232-4, 352 pages. (Citation # by Google Scholar: **305**)

Book Chapters

77. 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.

78. **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.
79. **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.
80. 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
81. **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.
82. 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.
83. 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.

Refereed Conference Proceedings:

84. **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*.
85. 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*.
86. 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.
87. **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.
88. **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*.
89. **Min Chen**, X. Liang, V. Leung. (2009) Multi-Hop Mesh Cooperative Structure based Data Dissemination for Wireless Sensor Networks. *IEEE ICACT'09*. (Post-doc work)
90. **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).
91. **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)
92. **Min Chen**, T. Kwon, and Y. Choi (2005) Data Dissemination based on Mobile Agent in Wireless Sensor Networks ", *IEEE LCN'05*. (Post-doc work)
93. **Min Chen**, S. González, Yan Zhang and V. Leung. (2009) Multi-agent Itinerary Planning in Wireless Sensor Networks. *QShine 2009*
94. **Min Chen**, V. Leung, L. Shu and Han-Chieh Chao. (2009) On Multipath Balancing and Expanding for Wireless Multimedia Sensor Networks. *FGCN 2009*
95. W. Cai, **Min Chen**, T. Hara, L. Shu "GA-MIP: Genetic Algorithm based Multiple Mobile Agents Itinerary Planning in Wireless Sensor Network", *WICON 2010*, Singapore, Mar. 2010.
96. S. Gonzalez, **Min Chen**, H. Cao, and V. Leung. (2010) Programmable Re-tasking of Wireless Sensor Networks Using WISEMAN. *ASIT 2009*, Niagara Falls, Canada, September, 2009
97. L. Liao, G. Han, **Min Chen**. (2010) An Integrated RFID and Sensor System for Emergency Handling in Underground Coal Mines Environments. *ASIT 2009*, Niagara Falls, Canada, September, 2009
98. L. Liao, **Min Chen**, S. Vuong, X. Lai. (2010) A Novel Web-enabled Healthcare Solution on Health Vault System. *UBSN2010*, Singapore, Mar. 2010.
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101. S. González, **Min Chen** and Victor Leung. (2009) Design, Implementation and Case Study of WISEMAN: Wireless Sensors Employing Mobile AgeNts. *ICST Mobilware '09*, Berlin, Germany, April 28-30, 2009
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103. M. Li, K. Lu, H. Zhu, **Min Chen**, S. Mao, B. Prabhakaran. (2008) Robot Swarm Communication Networks: Architectures, Protocols, and Application. Proceedings of *Chinacom 2008*, Hangzhou, P.R. China, Aug. 2008.
104. **Min Chen**, Gang Wei. (2003) Scheduling Algorithm for Real-time VBR Video Streams Using Weighted Switch Deficit Round Robin. *IEEE LCN 2003*, Bonn, Germany, October 2003.
105. **Min Chen**, Gang Wei. (2003) A Novel Hybrid ARQ Algorithm for Real-Time Video Transport Over Wireless LAN. Proc. *IEEE PIMRC 2003*, Beijing, China, September 2003.
106. **Min Chen**, G. Wei, X. Zhu. (2003) An IP DiffServ Framework For Real-time Video Transmission. *ICCT 2003*, Beijing, China, Mar.2003.
107. X. Zhu, **Min Chen**, Y. Yu. (2003) Video Transmission Based On DIFFSERV Over IP Networks. *ICCT 2003*, Beijing, China, Mar.2003.
108. W. Cai, X. Wang, **Min Chen**, Y. Zhang, "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.
109. C. Lai, **Min Chen**, A. Vasilakos, and Y. Huang, "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.
110. K. Lin, **Min Chen**, J. Rodrigues, S. Zeadally, L. Wang, "On Energy Equilibrium in Wireless Sensor Networks", *In ASIT 2010*, Miami, Florida, USA, December 6-10, 2010.
111. K. Lin, **Min Chen**, "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.
112. **Min Chen**, S. Gonzalez, V. Leung. (2010) Directional Source Grouping for Multi-Agent Itinerary Planning in Wireless Sensor Networks. *ICTC 2010*, Jeju Island, Korea
113. 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
114. **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.
115. X. Guan, C. Liu, **Min Chen**, H. Chen and T. Ohtsuki, "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.
116. K. Lin, C. Lai and **Min Chen**, "Research on Body Sensor Networks in Cold Region", *In International Conference on Communications (IEEE ICC 2011)*, Kyoto, Japan, June 5-9, 2011.
117. W. Tang, J. Ni, **Min Chen**, X. Yang, "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.
118. C. Tsai, W. Li, **Min Chen**, W. Hsieh, C. Yang, "Analysis of Multi-Path Random Key Pre-Distribution for Wireless Sensor Networks", *MoMoPE 2011*, Seoul, Korea, June 30th - July 2nd, 2011.
119. X. Guan, Min Chen, 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.
120. C. Luo, F. Yu, Min Chen, L. Yang, '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.

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

121. 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.
122. 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)
123. 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, 2011. (SCI)
124. 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.
125. 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.

Editorial:

126. **Min Chen** et al., "Advances in Multimedia Communications", *International Journal of Communication System*, 2011.
127. **Min Chen** et al., "Ubiquitous Body Sensor Networks ", *ACM/Springer Mobile Networks and Applications*, DOI 10.1007/s11036-011-0341-3, 2011
128. **Min Chen**, "Mobile, Multimedia, Ad hoc and Sensor Networks", *Int. J. Communication Networks and Distributed Systems*, 2011
129. **Min Chen** et al., "Recent Advances in Sensor Integration", *Int. J. Sensor Networks*, Vol. 9, No. 1, pp. 1-2, 2011
130. **Min Chen**, "Interactive and Smart Multimedia Services", *IEEE COMSOC MMTC E-Letter*, 2011

Other Evidence of Impact and Contributions:

Journal Editorships:

- Leading 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 Multimeida 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.
- Editorial board, International Journal of E-Health and Medical Communications, 2009-present.
- Associate Editor, Wiley I. J. of Security and Communication Networks, SCIE indexed, 2010-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:

- 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.
- 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)
- 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)
- 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 Chair, 2009 International Workshop on Advanced Sensor Integration Technology (ASIT 2009)
- Workshop Chair, 2010 International Workshop on Ubiquitous Body Sensor Networks (UBSN-10)
- Workshop Chair, 2009 International Workshop on Mobile, Multimedia, Ad Hoc & Sensor Networks (MMASN-09)
- TPC Co-chair, 2010 ICST Conference on Green Communications and Networking
- TPC Co-chair, 2010 International Workshop on Green Communication of Cellular Networks (GCCN2010)
- TPC Co-chair, international Workshop on Pervasive Computing Systems and Infrastructures (PCSI 2009)
- Publicity Chairs: WCNIS2010), PICom-09), WPS 2010, ICUMT 2010.
- Session Chairs: IEEE ICC 2009, IEEE VTC 2008, ICST QShine 2008, ICST Trientcom 2009, ADHOCNETS 2010
- Program Committee of several conferences: 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. Internet Things for Advanced Society, Beijing Jiaotong University (2011-Nov)
2. The Second Generation RFID System, Nanjing University of Post and Telecommunications (2011-July-25)
3. Ubiquitous Networks and Services for Advanced Society, South-Central University for Nationalities (2010-Oct-09)
4. School of Computer Science, Simon Fraser University, Canada (2010-Aug)
5. School of Computer Science and Technology, Huazhong University of Science and Technology, China (2010-July)
6. China 973 Wireless Sensor Network Lab & Self-organization Network and Network Computing Center, Shanghai Jiaotong University, China (2010-July)
7. Department of Computer Science, Huazhong University of Science and Technology, China (2010-April)
8. College of EECS, National ILan University, Taiwan (2009-Nov-29)
9. National Cheng Kung University, Taiwan (2009-Nov-27)
10. National Dong Hwa University, Taiwan (2009-Nov-30)
11. Department of Electrical Engineering, The University of Hong Kong, Hong Kong (2009-Dec-15)
12. The Hong Kong Polytechnic University, Hong Kong (2009-Dec-16)
13. Beijing University of Posts and Telecommunications, China (2009-Dec-17)

14. Department of Computing, The Hong Kong Polytechnic University: Directional Controlled Fusion (2008-July-29)
15. Department of Computing, The Hong Kong Polytechnic University: Intelligent Video Surveillance Sensor System (2008-May-16)
16. Department of ECE, University of British Columbia: Object-oriented RFID System (2008-Mar-9)
17. Department of ECE, University of British Columbia: Applications and Design Issues in Mobile Agents based Sensor Networks (2007-Mar-9)
18. School of Computer Science and Engineering, Seoul National University: RFID System for Airport (2009-Feb-19)
19. Department of ECE, University of British Columbia: Multi-Hop Mesh Cooperative (MMC) Structure Based Data Dissemination for Wireless Sensor Networks (2009-Mar-6)

Membership of Committees and Boards

- IEEE Senior Member (2009-present)
- Committee Member, ICST Information Technologies Committee (2008-present)
- Committee Member, IEEE Computational Intelligence Society (2009-present)

Teaching:

1. Dec/11-Jan/12, "Programming Practice" in School of Computer Science and Engineering, Seoul National University.
2. Sep/11-Nov/11, "Computer Modeling" in School of Computer Science and Engineering, Seoul National University.
3. June/11-Aug/11, "Engineering Mathematics II" in School of Computer Science and Engineering, Seoul National University.
4. Mar/11-June/11, "Engineering Mathematics II" in School of Computer Science and Engineering, Seoul National University.
5. Dec/10-Jan/11, "Data Structure" in School of Computer Science and Engineering, Seoul National University.
6. Sep/10-Nov/10, "Engineering Mathematics II" in School of Computer Science and Engineering, Seoul National University.
7. June/10-July/10, "Data Structure" in School of Computer Science and Engineering, Seoul National University.
8. Mar/10-June/10, "Engineering Mathematics II" in School of Computer Science and Engineering, Seoul National University.
9. Mar/10-June/10, "Computer Modeling" in School of Computer Science and Engineering, Seoul National University.
10. 12/09-01/10, "Data Structure" in School of Computer Science and Engineering, Seoul National University.
11. 07/02-01/03, "Digital Signal Processing" for undergraduates (Grade2000-Class3) in Department of Computer Science, South China Normal University.
12. 07/02-01/03, "Communication Theory" for undergraduates (Grade2000-Class3) in Department of Computer Science, South China Normal University.