Curriculum Vitae

Xiang-Yang Li

Contents

Curriculum Vitae

Xiang-Yang Li
(updated August 9, 2015)

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Hightlights: IEEE Fellow (class of 2015), ACM Distinguished Scientist (2015). Based on Google Scholar, the total citations of our papers are $\sim 11,000$, and the Google Scholar H-Index is ~ 50. Won 4 Best Paper Awards, one Best Demo Award, 3 best paper candidates. Six of my graduated PhD students from IIT are now working in academia (UNCC, GSU, UT-Dallas, Tsinghua, MTU, WOU).

1 Education (Ph.D. 2001, MS 2000, B.S. and B.M., 1995)

1997-2000 University of Illinois at Urbana-Champaign
M.S., Department of Computer Science, 1999.
Ph.D., Department of Computer Science, 2000.

M.S. Dissertation: *Dynamic load balancing for parallel adaptive mesh refinement*,
Advisor: **Shang-Hua Teng**
Department of Computer Science, University of Illinois at Urbana-Champaign

Ph.D. Dissertation: *Sliver-free Three-Dimensional Delaunay Mesh Generation*,
Advisor: Shang-Hua Teng
Department of Computer Science, University of Illinois at Urbana-Champaign

1990-1995 Tsinghua University, Beijing, P.R. China
B.E. in Computer Science and B.E. in Business Management, July 1995

1988-1990 International Mathematics Olympiad (IMO) Class, TsingHua University, Beijing, P.R. China.

2 Professional History

Since January, 2014 EMC-Endowed Visiting Chair Professor at Tsinghua University (2014 to 2017, part-time visiting position)

Since Aug., 2012 Full Professor, Department of Computer Science, Illinois Institute of Technology, Chicago, IL.

Aug., 2006 − Aug., 2012 Associate Professor, Department of Computer Science, Illinois Institute of Technology, Chicago, IL.

May., 2008-Aug., 2008 Visiting Professor, Microsoft Research Asia, BeiJing, China.

May., 2007-Jan., 2008 Visiting Professor, Microsoft Research Asia, BeiJing, China.

Aug. 2000–July 2006 Assistant Professor, Department of Computer Science, Illinois Institute of Technology, Chicago, IL.

Aug. 1997-Jul. 2000 Student Research Assistant, Center for Simulation of Advanced Rocket, Department of Computer Science, University of Illinois at Urbana-Champaign, Urbana, IL

Summer 1998 Givens Associate, Mathematics and Computer Science Program, Argonne National Laboratory, Chicago, IL

Aug. 1996-Jul. 1997 Student Research Assistant, Department of Computer Science, University of Minnesota at Twin city, Minneapolis, MN

3 Professional Honors, Visiting Professorship, Research Supports and Awards

3.1 Honors, Titles, and Adjunct Visiting Professorship

12. IEEE Fellow, class 2015 (elevated in 2014), *"for contributions to performance analysis and resource allocation in wireless networks"*;

11. ACM Distinguished Scientist, 2014

10. (visiting) EMC-Endowed Chair Professor of Tsinghua University, Beijing, China (2013-2016),

9. CTO, WuXi Tsingan Technology Co., Ltd.(http://www.tsingan.com/), 2012-2014.

8. Chief Scientist, IOT Tech Center at WuXi (TNLIST, Tsinghua) (http://www.greenorbs.org), 2011-present

7. Co-Founder, Run Technology Co., Ltd.(http://www.greenorbs.com/), 2011-present.

6. (visiting) Distinguished Professor, University of Science and Technology of China (2012-2015),

5. (visiting) HaiTian Honorary Professor, Dalian University of Technology, China. (2009-2012),

4. (visiting) ZheJiang One Hundred Talents Program, Qianjiang Scholar (ZheJiang Province), HangZhou DianZi University, China (2009-2012),

3. (visiting) Distinguished Professor, Xi'An JiaoTong University (2008-2014),

2. (visiting) Adjunct Professor, TianJin University (2005-2008),

1. China National Natural Science Foundation of Overseas Young Scholars Cooperation Research Fund (Outstanding Young Researcher-B), 2008.

3.2 Research Funding

Total NSF funding support from USA for all projects (as PI and Co-PI) is about **2.5 million** US dollar. Total funding support from HK RGC for all projects (as Co-PI) is about **1.2 million** HK dollar. Total funding support from China for all projects (as PI, Co-PI, or senior personnel/team member) is about **4.5 million** US dollar.

18. USA NSF CMMI 1436786: Collaborative Research: Coordinated Real-Time Traffic Management based on Dynamic Information Propagation and Aggregation under Connected Vehicle Systems a three-year grant from the National Science Foundation. PI: Lili Du, Co-PI: Xiang-Yang Li, $240,000. 2014-2017.

17. USA NSF 1343306, EARS: Modeling and Analysis of Radar / Communications Spectrum Sharing Opportunities, a three-year grant from the National Science Foundation. PI: Dennis Roberson, Co-PI: Cindy Hood and Xiang-Yang Li, $512,169. 2013-2016.

16. China NSFC: China National Natural Science Foundation of Overseas Young Scholars Cooperation Research Fund (Outstanding Young Researcher-B). National Natural Science Foundation of China(Grant Nos.61228202). PI: Xiang-Yang Li, Co-PI: JiZhong Zhao. 2013.1.1-2014.12.30, RMB 200,000.

15. NSF 1247944, EARS: Providing Predictable Service and Spectrum Access With Realtime Decision in Cognitive Multihop Wireless Networks, a three-year grant from the National Science Foundation. PI: Xiang-Yang Li, Co-PI: Erdal Eruklu. $498,122. (2012-2015)

14. USA NSF REU Supplement, NSF 1247944, EARS: Providing Predictable Service and Spectrum Access With Realtime Decision in Cognitive Multihop Wireless Networks, $8,000, 2012-2014

13. China, WuXi City Government, Project "Joint Research Lab of Internet of Things by WuXi City and TNLIST", PIs: YunHao Liu, Xiang-Yang Li. Amount: about $3M, (it is about Chinese Yuan 20 million RMB).

12. USA NSF CPS:Medium: The Study of and Methodology Development for Loosely Coupled Networked Control Systems with Disturbances, NSF CNS-1035894, PI: **Xiang-Yang Li**, Co-PIs: ShangPing Ren, Paul Anderson, and Fouad Teymour. 2010.09.15 - 2013.09.14. $750,000.00,

11. China, 973 Program (Ministry of Science and Technology of China), "Architecture and Theory for Information Service", **PI**: ChangJun Jiang, Team members of one sub-research topic: Yueyu Du, Xiang-Yang Li, Zhijun Ding, Zhehu Wu, and Charu Sun. (2010 to 2014). Total amount about $1M, (6 million Chinese RMB for subproject).

10. USA NSF NeTS-NECO: Some Fundamental Problems for Performance Study of Opportunistic Spectrum Utilization, PI: **Xiang-Yang Li**, 2009.1.1 - 2011.12.30, $249,982.00,

9. USA NSF REU Supplement for NSF NeTS-NECO: Some Fundamental Problems for Performance Study of Opportunistic Spectrum Utilization, PI: **Xiang-Yang Li**, $16000, 2009-2010.

8. P.R. China, ZheJiang Province, "Innovation Team For Sensor Networking", 2009-2012, **PI**: Xiang-Yang Li, 7 other Co-PIs. Total support, about $0.5M (3 million Chinese RMB).

7. P.R.China NSFC: China National Natural Science Foundation of Overseas Young Scholars Cooperation Research Fund (Outstanding Young Researcher-B). National Natural Science Foundation of China(Grant Nos.60828003). PI: **Xiang-Yang Li**, Co-PI: Yong Qi. 2009.1.1-2010.12.30, RMB $200,000; Second phase to be determined.

6. HK RGC: Explore Business Models for Streaming Applications in Peer-to-Peer Environments. PI: Wei Lou, Co-PI: **Xiang-Yang Li**. CERG under Grant PolyU-5232/07E. 01-01-2008 to 31-12-2009, HK$ 378,400.

5. HK RGC: Effective and Efficient Environment Monitoring in Wireless Sensor Networks, PI: YunHao Liu, Co-PI: **Xiang-Yang Li**. Hong Kong RGC CERG HKUST6169/07E, Sep. 1, 2007- Aug. 31, 2009. HK$ 489,445.

4. HK RGC: A Microeconomic Approach for Digital Rights Management in P2P Networks, PI: XiaoWen Chu, Co-PI: **Xiang-Yang Li**. RGC HKBU 210406, from 01-09-2006 to 28-02-2009, HK$356,000.

3. USA NSF REU: Prefix-Free Vertex Coloring for Channel Assignment in OVSF-CDMA Wire-less Ad Hoc Networks. PIs: Peng-Jun Wan and **Xiang-Yang Li** (06/01/2005 to 07/31/2006). $12,000

2. USA NSF CCR-0311174: Prefix-Free Vertex Coloring for Channel Assignment in OVSF-CDMA Wireless Ad Hoc Networks. PIs: Peng-Jun Wan and **Xiang-Yang Li** (08/01/2003 to 07/31/2006). $187,474.

1. USA NSF CCR-342259: International Workshop on Theoretical Aspects of Wireless Ad Hoc, Sensor, and Peer-to-Peer Networks. PI: **Xiang-Yang Li** (07/01/2003 to 06/31/2004). $20,000.

3.3 Research Awards

10. **Best Paper Award**, IEEE IPCCC 2014, *Network Agile Preference-Based Prefetching for Mobile Devices*, by Junze Han, Xiang-Yang Li, Taeho Jung, Jumin zhao, and Zenghua Zhao.

9. **Best Paper Award**, ACM MobiCom 2014, *Tagoram: Real-Time Tracking of Mobile RFID Tags to High Precision Using COTS Devices*, by Lei Yang, Yekui Chen, Xiang-Yang Li, Chaowei Xiao, Mo Li, Yunhao Liu.

8. **Best Demo Award**, ACM MobiCom 2012, *FLIGHT: Clock Calibration Using Fluorescent Lighting*, Zhenjiang Li, Cheng Li, Wenwei Chen, Jingyao Dai, and Mo Li (Nanyang Technological University, Singapore); Xiang-Yang Li (Illinois Institute of Technology, USA); and Yunhao Liu (Tsinghua University, China)

7. **Dean's Excellence in Research Award in 2011**, College of Science and Letters, IIT

6. China National Natural Science Foundation of Overseas Young Scholars Cooperation Research Fund (Outstanding Young Researcher-B), 2012.

5. **China's Young Outstanding Overseas Researcher** (Information Technology, NSFC), 2008. There are only 2 elected worldwide in the area of Computer Science in 2008.

4. **Best paper candidate** for ACM MobiCom 2008, for paper *"Capacity of Large Scale Wireless Networks Under Gaussian Channel Model"*.

3. **Best student paper candidate** in ACM MobiCom 2005, for paper *"A Unified Energy Efficient Topology for Unicast and Broadcast"*;

2. **Best paper award** of 35th Hawaii International Conference on System Science 2001 (HICSS'35), for paper *"Sparse Power Efficient Topology for Wireless Networks"*

1. **Hao Wang Award** of 7th Annual International Computing and Combinatorics Conference 2001 (COCOON'01), for paper *"How Good is Sink Insertion?"*.

3.4 Other Professional Achievements

6. One of the few international experts invited by National Natural Science Foundation of China (NSFC), Directory of Information Technology, for serving as the committee member of panel review, 2007, 2008, 2009, 2010, 2011, 2013.

5. In 1992-1995, I was selected to get the minor degree in Business Management at Tsinghua University. There are less than 100 students selected to have minor degree at any area among more than 2000 undergraduate students admitted at 1990.

4. In 1990, I was awarded the gifted young researcher award in Yang Zhou City, JiangSu Province. One such award was given every five years.

3. In 1990, I was admitted to Tsinghua University waived of the China National College Entrance Exam.

2. In 1989, I won the first price (ranked # 1) in mathematics competition of high-school students in JiangSu Province.

1. In 1988-1990, I was one of the 20 students selected in China to a special class, which was managed by the Department of Education of P.R.China to prepare for the International Mathematics Olympiad (IMO).

4 Research Concentration and Highlights

Understanding Networking Science: Understanding the science and engineering aspects of various networks (such as computer networks, social networks) has been attracting considerable research interests of scientists from different disciplines. The work conducted at Illinois Institute of Technology in the Wireless Networking Lab, led by Xiang-Yang Li, is taking on the challenge of understanding the fundamental performance behaviors of large scale wireless networking, designing and implementing more energy efficient networking technologies under the most adverse technological challenges we ever faced, implementing mobile computing systems that will fulfill practical needs, and designing wireless networking protocols that will significantly enhance the performance. Overcoming these challenges will enable a new class of energy-conscious wireless networks that deliver high throughput networking and computing in a more environmentally-responsible manner. I have been concentrating on investigating questions in various networks that have significant real world impact and that could contribute in fundamental ways to the advancement of networking science and related engineering disciplines. It involves both theoretical and empirical methods. Topics of my research projects include cyber-physical systems, wireless sensor networks, mobile computing, crowd-sourcing, and privacy issues in these networks. My research is contributing and is supported in part by the National Science Foundation, through NeTS CPS, and the EARS program.

Designing Large Scale Wireless Sensor Networks: Sensor networks, a major component in cyber-physical systems, are envisioned to consist of hundreds or thousands of inexpensive nodes that can be readily deployed to collect useful information in a robust and autonomous manner. However, several obstacles need to be overcome before this vision becomes a reality. Collaborating with researchers from several institutions, I co-lead the design and deployment of wireless sensor networks, CitySee and GreenOrbs, for environment monitoring and study. The deployed sensor network is used for air quality monitoring, motivated by fighting global warming. Global warming, i.e., the increase in the average temperature of Earth's near-surface air and oceans and its projected continuation, has enormous physical, ecological, social and economic impacts.

Multi-hop large scale WSN with CO2 sensors, consisting of thousands of inexpensive nodes, can be deployed to provide real-time, comprehensive monitoring in a robust and autonomous manner. The CitySee system, collaborated by my group and research institutions from HongKong and China, is composed of more than 1200 nodes that continuously work for more than one year now. This is one of the largest sensor networking systems reported, to the best of our knowledge. A number of unique phenomena were discovered in this large system and a number of challenging questions are addressed to make it sustainable and reliable. The system and experience obtained shed light on designing sustainable, scalable, and reliable sensor networks that meet industrial standards, especially on designing sustainable sensor networking systems with limited energy, computing and communication resources available to the sensor nodes.

Security and Privacy: Increasing attentions are paid to security and privacy implications in almost every field relating the human-generated data with the advent of state of the art data analysis such as data mining or machine learning techniques. Due to different forms of the outsourcing, various user-generated digital data has formed the current big data ecosystem as well as the cloud computing environment, and the current systems involve multitudes of sensitive information from which rich personal secrets can be inferred. To utilize the current networking system with its own benefits and address the underlying security and privacy implications, Li's research group has focused on the following different security or privacy related areas: privacy-preserving computing, verifiable computing and storage, protection of location, image and video privacy.

Mobile and Social Networking: Online social networks are fast becoming an important communication medium amongst varied groups of people. With the advent of popular web-sites and communication tools (e.g., Facebook, Twitter), users of these sites and tools form large social networks that provide a powerful means for sharing, organizing and finding contents and contacts. Other interesting applications include political activity and political activism which have been harnessing the powers of digital social media. In this context, online social networking is a very powerful tool for many reasons. First, the broadcast nature of some social networking sites enables individuals to access a large audience, and second the network can

also be used to rapidly spread the influence on others. Our research in social networking focuses on several different areas: belief propagation in social networks, relationship classification, privacy-preserving protocols in social networks, asymptotic behaviors of large scale social networks.

5 List of Publications

Reprints or preprints are available at **http://www.cs.iit.edu/∼xli/publications.html** or on request.

5.1 Books Written or Edited

Monograph: Wireless Ad Hoc and Sensor Networks: Theory and Applications, ISBN-13: 9780521865234, Pub. Date: June 2008, Cambridge University Press.

Edited: Encyclopedia of Algorithms, edited by Ming-Yang Kao, Springer publisher. I am area editor for mobile computing. ISBN: 978-0-387-30770-1.

Edited: Sensor and Ad-Hoc Networks : Theoretical and Algorithmic Aspects, by S. Kami Makki (Editor), Xiang-Yang Li (Editor), Niki Pissinou (Editor), Shamila Makki (Editor), Masoumeh Karimi (Editor), Kia Makki (Editor), ISBN-13: 9780387773193 Pub. Date: July 2008.

Edited: American Mathematical Modeling Contests Guides and Analysis, (http://www.mcmbooks.net/4.html), first version. 2012.

5.2 Proceedings Editorship

5. Jie Wu, Xiuzhen Cheng, Xiang-Yang Li, Saswati Sarkar (Eds.): The Fifteenth ACM International Symposium on Mobile Ad Hoc Networking and Computing, MobiHoc'14, Philadelphia, PA, USA, August 11-14, 2014. ACM 2014, ISBN 978-1-4503-2620-9 2012

4. Xiang-Yang Li, Symeon Papavassiliou, Stefan Rhrup (Eds.): Ad-hoc, Mobile, and Wireless Networks - 11th International Conference, ADHOC-NOW 2012, Belgrade, Serbia, July 9-11, 2012. Proceedings. Lecture Notes in Computer Science 7363, Springer 2012, ISBN 978-3-642-31637-1 2011

3. Mikhail J. Atallah, Xiang-Yang Li, Binhai Zhu (Eds.): Frontiers in Algorithmics and Algorithmic Aspects in Information and Management - Joint International Conference, FAW-AAIM 2011, Jinhua, China, May 28-31, 2011. Proceedings. Lecture Notes in Computer Science 6681, Springer 2011, ISBN 978-3-642-21203-1 2008

2. Xiang-Yang Li, Yu Wang (Eds.): Proceedings of the 1st ACM International Workshop on Foundations of Wireless Ad Hoc and Sensor Networking and Computing, FOWANC 2008, Hong Kong, China, May 26, 2008. ACM 2008, ISBN 978-1-60558-149-1 2007

1. no documents available Ming-Yang Kao, Xiang-Yang Li (Eds.): Algorithmic Aspects in Information and Management, Third International Conference, AAIM 2007, Portland, OR, USA, June 6-8, 2007, Proceedings. Lecture Notes in Computer Science 4508, Springer 2007, ISBN 978-3-540-72868-9

5.3 Book Chapters or Entries

17. *Minimum Energy Broadcast In Wireless Networks (2001; Wan, Calinescu, Li, Frieder),* Peng-Jun Wan, **Xiang-Yang Li**, Gruia Calinescu, Ophir Frieder: *Encyclopedia of Algorithms edited by Ming-Yang Kao,*

16. *Truthful Multicast Routing in Selsh Wireless Networks (2005; Wang, Li, Wang),* Weizhao Wang, **Xiang-Yang Li**, Yu Wang: *Encyclopedia of Algorithms edited by Ming-Yang Kao,*

15. *Nash Equilibria and Dominant Strategies in Routing (2005; Wang, Li, Chu),* Weizhao Wang, **Xiang-Yang Li**, and XiaoWen Chu: *Encyclopedia of Algorithms edited by Ming-Yang Kao,*

14. *Weighted Connected Dominating Set (2005; Wang, Wang, Li),* Yu Wang, WeiZhao Wang, and **Xiang-Yang Li**: *Encyclopedia of Algorithms edited by Ming-Yang Kao,*

13. **Xiang-Yang Li** and Yu Wang: *Geometrical Spanner for Wireless Ad Hoc Networks, Handbook of Approximation Algorithms and MetaHeuristics. Editor: Teofilo F. Gonzalez, to appear, 2005,*

12. **Xiang-Yang Li** and WeiZhao Wang: *Approximation Algorithms and Algorithm Mechanism Design, Handbook of Approximation Algorithms and MetaHeuristics. Editor: Teofilo F. Gonzalez, to appear, 2005,*

11. Yu Wang and **Xiang-Yang Li** and Wen-Zhan Song: *Scatternet Formation and Self-Routing in Bluetooth Networks, Book Chapter of "Wireless LANs and Bluetooth", Nova Science Publishers 2005, to appear,*

10. Kousha Moaveninejad and **Xiang-Yang Li**: *Energy Efficient Broadcasting Using Sparse Topology in Wireless Ad Hoc Networks, Book chapter of "Advances in Wireless Networks and Mobile Computing" (edited by Ding-Zhu Du and Guoliang Xue), in Book Series "Network Theory and Applications", Springer, (originally, Kluwer Academic Publishers, now merging into Springer). 2004. To appear,*

9. **Xiang-Yang Li** and Wei-Zhao Wang: *Strategyproof Computing in Selfish Networks, Book Chapter of "Combinatorial Optimization in Communication Networks" (edited by Ding-Zhu Du, Maggie Cheng and Yingshu Li), to be published by Kluwer. 2004. To appear,*

8. **Xiang-Yang Li** and Kousha Nejad: *Path exposure, target location, classification and tracking in sensor networks, Book Chapter of "Sensor Networks", to be published by John Wiley and Sons. 2004. To appear,*

7. **Xiang-Yang Li**, WeiZhao Wang: *Efficient Strategyproof Multicast in Selfish Wireless Networks, Book chapter of "Theoretical and Algorithmic Aspects of Sensor, Ad Hoc Wireless and Peer-to-Peer Networks", to be published by CRC Press, 2004, edited by Jie Wu,*

6. **Xiang-Yang Li** and Wen-Zhan Song and Peng-Jun Wan: *CDMA Code Assignment in Wireless Ad Hoc Networks, Book Chapter of "Design and Analysis of Wireless Networks", to be published by Nova Science Publishers 2004. To appear,*

5. **Xiang-Yang Li** and Ivan Stojmenovic: *Broadcasting and Topology Control in Wireless Ad Hoc Networks, in: Handbook of Algorithms for Mobile and Wireless Networking and Computing, (A. Boukerche and I. Chlamtac, eds.), CRC Press, 2004, to appear,*

4. **Xiang-Yang Li**, WeiZhao Wang: *Truthful Computing in Wireless Networks, Book Chapter of "Resource Management in Wireless Networking", edited by M. Cardei, I. Cardei and D.-Z. Du, Kluwer Academic Publishers. 2004. To appear,*

3. **Xiang-Yang Li**, Yu Wang: *Wireless Sensor Networks and Computational Geometry, Book Chapter of "Handbook of Sensor Networks", edited by Mohammad Ilyas et al. CRC Press. 2003,*

2. **Xiang-Yang Li**: *Topology Control in Wireless Ad Hoc Networks, Book Chapter of* Ad Hoc Networking, *published by IEEE Press. 2002,*

1. **Xiang-Yang Li**: *Application of Computational Geometry in Wireless Ad Hoc Networks, Book Chapter of* Wireless Ad Hoc Networks, *published by Kluwer. 2002,*

5.4 Journal Papers

Journal Papers Published

120. Dan Tao, Shaojie Tang, Xiang-Yang Li, Huadong Ma: Energy Efficient Data Gathering with Mobile Sinks in Hybrid Sensor Networks. Ad Hoc & Sensor Wireless Networks 27(1-2): 1-25 (2015)

119. Yu-e Sun, He Huang, Xiang-Yang Li, Wei Yang, Hongli Xu, Fanzhang Li, Liusheng Huang: Spectrum Allocation Mechanisms in Wireless Networks with Performance Guarantee. Ad Hoc & Sensor Wireless Networks 27(1-2): 111-134 (2015)

118. Dong Zhao, Huadong Ma, Liang Liu, Xiang-Yang Li: Opportunistic coverage for urban vehicular sensing. Computer Communications 60: 71-85 (2015)

117. Taeho Jung, Xiang-Yang Li, Meng Wan: Collusion-Tolerable Privacy-Preserving Sum and Product Calculation without Secure Channel. IEEE Trans. Dependable Sec. Comput. 12(1): 45-57 (2015)

116. Taeho Jung, Xiang-Yang Li, Zhiguo Wan, Meng Wan: Control Cloud Data Access Privilege and Anonymity With Fully Anonymous Attribute-Based Encryption. IEEE Transactions on Information Forensics and Security 10(1): 190-199 (2015)

115. Zhong Li, Cheng Wang, Siqian Yang, Changjun Jiang, Xiang-Yang Li: LASS: Local-Activity and Social-Similarity Based Data Forwarding in Mobile Social Networks. IEEE Trans. Parallel Distrib. Syst. 26(1): 174-184 (2015)

114. Dong Zhao, Huadong Ma, Shaojie Tang, Xiang-Yang Li: COUPON: A Cooperative Framework for Building Sensing Maps in Mobile Opportunistic Networks. IEEE Trans. Parallel Distrib. Syst. 26(2): 392-402 (2015)

113. Yanwei Wu, Jizhong Zhao, Xiang-Yang Li: Throughput Optimization in Wireless Mesh Networks Using Zero-Sum Game. Ad Hoc & Sensor Wireless Networks 21(1-2): 151-175 (2014)

112. Cheng Wang, Changjun Jiang, Yunhao Liu, Xiang-Yang Li, Shaojie Tang: Aggregation Capacity of Wireless Sensor Networks: Extended Network Case. IEEE Trans. Computers 63(6): 1351-1364 (2014)

111. Zhenjiang Li, Wenwei Chen, Cheng Li, Mo Li, Xiang-Yang Li, Yunhao Liu: FLIGHT: Clock Calibration and Context Recognition Using Fluorescent Lighting. IEEE Trans. Mob. Comput. 13(7): 1495-1508 (2014)

110. Bowen Li, Panlong Yang, Jinlong Wang, Qihui Wu, Shaojie Tang, Xiang-Yang Li, Yunhao Liu: Almost Optimal Dynamically-Ordered Channel Sensing and Accessing for Cognitive Networks. IEEE Trans. Mob. Comput. 13(10): 2215-2228 (2014)

109. Cheng Wang, Xiang-Yang Li, Changjun Jiang, Huiya Yan: The Impact of Rate Adaptation on Capacity-Delay Tradeoffs in Mobile Ad Hoc Networks. IEEE Trans. Mob. Comput. 13(11): 2661-2674 (2014)

108. Shaojie Tang, Jing Yuan, Cheng Wang, Xiang-Yang Li: A Framework for Amazon EC2 Bidding Strategy under SLA Constraints. IEEE Trans. Parallel Distrib. Syst. 25(1): 2-11 (2014)

107. Junchao Ma, Wei Lou, Xiang-Yang Li: Contiguous Link Scheduling for Data Aggregation in Wireless Sensor Networks. IEEE Trans. Parallel Distrib. Syst. 25(7): 1691-1701 (2014)

106. Mo Li, Zhenjiang Li, Longfei Shangguan, Shaojie Tang, Xiang-Yang Li: Understanding Multi-Task Schedulability in Duty-Cycling Sensor Networks. IEEE Trans. Parallel Distrib. Syst. 25(9): 2464-2475 (2014)

105. Yaqin Zhou, Xiang-Yang Li, Min Liu, XuFei Mao, Shaojie Tang, Zhongcheng Li: Throughput Optimizing Localized Link Scheduling for Multihop Wireless Networks under Physical Interference Model. IEEE Trans. Parallel Distrib. Syst. 25(10): 2708-2720 (2014) 2013

104. Zhong Li, Cheng Wang, Changjun Jiang, Xiang-Yang Li: Multicast capacity scaling for inhomogeneous mobile ad hoc networks. Ad Hoc Networks 11(1): 29-38 (2013)

103. Xiang-Yang Li: Editorial for special issue: System and theoretical issues in designing and implementing scalable and sustainable wireless sensor networks. Ad Hoc Networks 11(4): 1271-1275 (2013)

102. Dan Tao, Shaojie Tang, Haitao Zhang, XuFei Mao, Xiang-Yang Li, Huadong Ma: Strong Barrier Coverage Detection and Mending Algorithm for Directional Sensor Networks. Ad Hoc & Sensor Wireless Networks 18(1-2): 17-33 (2013)

101. Lei Wang, Zhuxiu Yuan, Zhenquan Qin, Yuanfang Chen, Lei Shu, Xiang-Yang Li: A backoff differentiation scheme for contention resolution in wireless converge-cast networks. Concurrency and Computation: Practice and Experience 25(1): 112-128 (2013)

100. Dezun Dong, Xiangke Liao, Yunhao Liu, Xiang-Yang Li, Zhengbin Pang: Fine-Grained Location-Free Planarization in Wireless Sensor Networks. IEEE Trans. Mob. Comput. 12(5): 971-983 (2013)

99. XiaoHua Xu, Xiang-Yang Li, Min Song: Efficient Aggregation Scheduling in Multihop Wireless Sensor Networks with SINR Constraints. IEEE Trans. Mob. Comput. 12(12): 2518-2528 (2013)

98. Jizhong Zhao, Wei Xi, Yuan He, Yunhao Liu, Xiang-Yang Li, Lufeng Mo, Zheng Yang: Localization of Wireless Sensor Networks in the Wild: Pursuit of Ranging Quality. IEEE/ACM Trans. Netw. 21(1): 311-323 (2013)

97. Yin Wang, Yuan He, XuFei Mao, Yunhao Liu, Xiang-Yang Li: Exploiting Constructive Interference for Scalable Flooding in Wireless Networks. IEEE/ACM Trans. Netw. 21(6): 1880-1889 (2013)

96. Haitao Zhang, Huadong Ma, Xiang-Yang Li, Shaojie Tang: In-Network Estimation with Delay Constraints in Wireless Sensor Networks. IEEE Trans. Parallel Distrib. Syst. 24(2): 368-380 (2013)

95. Cheng Wang, Changjun Jiang, Shaojie Tang, Xiang-Yang Li: Scaling Laws of Cognitive Ad Hoc Networks over General Primary Network Models. IEEE Trans. Parallel Distrib. Syst. 24(5): 1030-1041 (2013)

94. Deke Guo, Yuan He, Yunhao Liu, Panlong Yang, Xiang-Yang Li, Xin Wang: Link Scheduling for Exploiting Spatial Reuse in Multihop MIMO Networks. IEEE Trans. Parallel Distrib. Syst. 24(7): 1355-1365 (2013)

93. Yunhao Liu, Yuan He, Mo Li, Jiliang Wang, Kebin Liu, Xiang-Yang Li: Does Wireless Sensor Network Scale? A Measurement Study on GreenOrbs. IEEE Trans. Parallel Distrib. Syst. 24(10): 1983-1993 (2013)

92. XuFei Mao, Yunhao Liu, Shaojie Tang, Huafu Liu, Jiankang Han, Xiang-Yang Li: Finding Best and Worst k-Coverage Paths in Multihop Wireless Sensor Networks. IEEE Trans. Parallel Distrib. Syst. 24(12): 2396-2406 (2013)

91. Cheng Wang, Changjun Jiang, Xiang-Yang Li, Yunhao Liu: Asymptotic throughput for large-scale wireless networks with general node density. Wireless Networks 19(5): 559-575 (2013) 2012

90. Bowen Li, Panlong Yang, Jinlong Wang, Liang Shen, Yitao Xu, Yijing Liu, Xiang-Yang Li: Optimal Action Point for Dynamic Spectrum Utilization Under Rayleigh Fading. Ad Hoc & Sensor Wireless Networks 17(1-2): 1-32 (2012)

89. Haitao Zhang, Huadong Ma, Xiang-Yang Li, Shaojie Tang, XiaoHua Xu: Energy-efficient scheduling with delay constraints for wireless sensor networks: A calculus-based perspective. Computer Communications 35(16): 1983-1993 (2012)

88. Mo Li, Yunhao Liu, Xiang-Yang Li: Mobile Sensing and Actuating with Ubiquitous Computing. IJDSN 2012 (2012)

87. Qian Wang, Ping Xu, Kui Ren, Xiang-Yang Li: Towards Optimal Adaptive UFH-Based Anti-Jamming Wireless Communication. IEEE Journal on Selected Areas in Communications 30(1): 16-30 (2012)

86. Cheng Wang, Changjun Jiang, Xiang-Yang Li, Shaojie Tang, Yuan He, XuFei Mao, Yunhao Liu: Scaling Laws of Multicast Capacity for Power-Constrained Wireless Networks under Gaussian Channel Model. IEEE Trans. Computers 61(5): 713-725 (2012)

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1. Xiang-Yang Li, Yu Wang: Efficient Localized Routing for Wireless Ad Hoc Networks. ICDCS Workshops 2003: 691-696

5.9 Reference Works

5. Wen-Zhan Song, Xiang-Yang Li, Weizhao Wang: Degree-Bounded Planar Spanner with Low Weight. Encyclopedia of Algorithms 2008

4. Peng-Jun Wan, Xiang-Yang Li, Ophir Frieder: Minimum Energy Cost Broadcasting in Wireless Networks. Encyclopedia of Algorithms 2008

3. Weizhao Wang, Xiang-Yang Li, Xiaowen Chu: Nash Equilibria and Dominant Strategies in Routing. Encyclopedia of Algorithms 2008

2. Weizhao Wang, Xiang-Yang Li, Yu Wang: Truthful Multicast. Encyclopedia of Algorithms 2008

1. Yu Wang, Weizhao Wang, Xiang-Yang Li: Weighted Connected Dominating Set. Encyclopedia of Algorithms 2008

5.10 Informal Online Publications (arXiv)

34. Lan Zhang, Kebin Liu, Xiang-Yang Li, Puchun Feng, Cihang Liu, Yunhao Liu: Enable Portrait Privacy Protection in Photo Capturing and Sharing. CoRR abs/1410.6582 (2014)

33. Lan Zhang, Taeho Jung, Cihang Liu, Xuan Ding, Xiang-Yang Li, Yunhao Liu: Outsource Photo Sharing and Searching for Mobile Devices With Privacy Protection. CoRR abs/1410.6589 (2014)

32. Lan Zhang, Taeho Jung, Puchun Feng, Xiang-Yang Li, Yunhao Liu: Cloud-based Privacy Preserving Image Storage, Sharing and Search. CoRR abs/1410.6593 (2014) 2013

31. Yaqin Zhou, Xiang-Yang Li, Min Liu, XuFei Mao, Shaojie Tang, Zhongcheng Li: Throughput Optimizing Localized Link Scheduling for Multihop Wireless Networks Under Physical Interference Model. CoRR abs/1301.4738 (2013)

30. Sanjiv Kapoor, Xiang-Yang Li: Efficient Construction of Spanners in d-Dimensions. CoRR abs/1303.7217 (2013)

29. Cheng Wang, Xiang-Yang Li, Changjun Jiang: Modelling Capacity Scaling of Wireless Social Networks by A Population-Based Social Formation Model. CoRR abs/1304.6459 (2013)

28. Yu-e Sun, He Huang, Xiang-Yang Li, Zhili Chen, Wei Yang, Hongli Xu, Liusheng Huang: Near-Optimal Truthful Auction Mechanisms in Secondary Spectrum Markets. CoRR abs/1305.6390 (2013)

27. Wenchao Huang, Yan Xiong, Xiang-Yang Li, Hao Lin, XuFei Mao, Panlong Yang, Yunhao Liu: Accurate Indoor Localization Using Acoustic Direction Finding via Smart Phones. CoRR abs/1306.1651 (2013)

26. Dong Zhao, Xiang-Yang Li, Huadong Ma: OMG: How Much Should I Pay Bob in Truthful Online Mobile Crowdsourced Sensing? CoRR abs/1306.5677 (2013)

25. Cheng Bo, Xuesi Jian, Xiang-Yang Li: TEXIVE: Detecting Drivers Using Personal Smart Phones by Leveraging Inertial Sensors. CoRR abs/1307.1756 (2013)

24. Taeho Jung, Xiang-Yang Li, Lan Zhang: A General Framework for Privacy-Preserving Distributed Greedy Algorithm. CoRR abs/1307.2294 (2013)

23. Yaqin Zhou, Xiang-Yang Li: Multi-Armed Bandits With Combinatorial Strategies Under Stochastic Bandits. CoRR abs/1307.5438 (2013)

22. Zhiping Jiang, Jizhong Zhao, Xiang-Yang Li, Wei Xi, Kun Zhao, Shaojie Tang, Jinsong Han: Communicating Is Crowdsourcing: Wi-Fi Indoor Localization with CSI-based Speed Estimation. CoRR abs/1307.6349 (2013)

21. He Huang, Xiang-Yang Li, Yu-e Sun, Hongli Xu, Liusheng Huang: PPS: Privacy-Preserving Strategyproof Social-Efficient Spectrum Auction Mechanisms. CoRR abs/1307.7792 (2013)

20. Xinfeng Li, Chenshu Wu, Xiaoyuan Wang, Ming Gu, Xiang-Yang Li, Dong Xuan: BlueSky: Realizing Buried Potential of Bluetooth to Sustain a Large-scale Multi-hop Network. CoRR abs/1308.2950 (2013)

19. Yaqin Zhou, Xiang-Yang Li, Fan Li, Min Liu, Zhongcheng Li, Zhiyuan Yin: Almost Optimal Channel Access in Multi-Hop Networks With Unknown Channel Variables. CoRR abs/1308.4751 (2013)

18. Taeho Jung, Xiang-Yang Li: Infinite Choices of Data Aggregations with Linear Number of Keys. CoRR abs/1308.6198 (2013)

17. Taeho Jung, Xiang-Yang Li, Lan Zhang, He Huang: Efficient, Verifiable and Privacy-Preserving Combinatorial Auction Design. CoRR abs/1308.6202 (2013)

16. Cheng Bo, Lan Zhang, Xiang-Yang Li: SilentSense: Silent User Identification via Dynamics of Touch and Movement Behavioral Biometrics. CoRR abs/1309.0073 (2013)

15. Cheng Bo, Xiang-Yang Li, Taeho Jung, XuFei Mao: SmartLoc: Sensing Landmarks Silently for Smartphone Based Metropolitan Localization. CoRR abs/1310.8187 (2013) 2012

14. Taeho Jung, Xiang-Yang Li, Zhiguo Wan: AnonyControl: Control Cloud Data Anonymously with Multi-Authority Attribute-Based Encryption. CoRR abs/1206.2657 (2012)

13. Taeho Jung, Xiang-Yang Li, Shaojie Tang: Data Aggregation without Secure Channel: How to Evaluate a Multivariate Polynomial Securely. CoRR abs/1206.2660 (2012)

12. Lan Zhang, Xiang-Yang Li: Message in a Sealed Bottle: Privacy Preserving Friending in Social Networks. CoRR abs/1207.7199 (2012)

11. Junze Han, Xiang-Yang Li: Network Agile Preference-Based Prefetching for Mobile Devices. CoRR abs/1208.0054 (2012)

10. Taeho Jung, Xiang-Yang Li: Search Me If You Can: Privacy-preserving Location Query Service. CoRR abs/1208.0107 (2012)

9. He Huang, Yu-e Sun, Xiang-Yang Li, Hongli Xu, Yousong Zhou, Liusheng Huang: Truthful Auction Mechanism for Heterogeneous Spectrum Allocation in Wireless Networks. CoRR abs/1208.0144 (2012)

8. Peiyan Yuan, Huadong Ma, Xiang-Yang Li, Shaojie Tang, XuFei Mao: Opportunistic Forwarding with Partial Centrality. CoRR abs/1208.0186 (2012)

7. Zhiping Jiang, Jizhong Zhao, Xiang-Yang Li, Jinsong Han, Wei Xi: Rejecting the Attack: Source Authentication for Wi-Fi Management Frames using CSI Information. CoRR abs/1208.0412 (2012)

6. XiaoHua Xu, Jiannong Cao, Xiang-Yang Li: MLLS: Minimum Length Link Scheduling Under Physical Interference Model. CoRR abs/1208.0627 (2012)

5. Yin Wang, Yuan He, Dapeng Cheng, Yunhao Liu, Xiang-Yang Li: Triggercast: Enabling Wireless Collisions Constructive. CoRR abs/1208.0664 (2012)

4. Jizhong Zhao, Wei Xi, Jinsong Han, Shaojie Tang, Xiang-Yang Li, Yunhao Liu, Yihong Gong, Zehua Zhou: Efficient and Secure Key Extraction using CSI without Chasing down Errors. CoRR abs/1208.0688 (2012)

3. Yaqin Zhou, Xiang-Yang Li, Min Liu, Zhongcheng Li: Link Scheduling for Throughput Maximization in Multihop Wireless Networks Under Physical Interference. CoRR abs/1208.0902 (2012)

2. XiaoHua Xu, Xiang-Yang Li, Shaojie Tang, XuFei Mao: Distributed Scheduling for Real-Time Convergecast in Wireless Sensor Networks. CoRR abs/1208.1793 (2012)

1. XiaoHua Xu, Xiang-Yang Li: Efficient Construction of Dominating Set in Wireless Networks. CoRR abs/1208.5738 (2012)

6 List of Patents

Patents Applied in China (See Fig. 1)
Patents Applied in USA

These patents are typically provisional patent application first.

5. OBV: CONTINUOUS AUTHENTICATION FOR MOBILE DEVICES USING OBLIVIOUS BEHAVIOR BIOMETRICS, IIT-292-P (Xiang Yang LI, Cheng Bo), 2014

专利名称	类型	申请人	发明人	专利号
一种基于无线mesh网络的视频监控系统	实用新型专利	无锡清华信息科学与技术国家实验室物联网技术中心	毛续飞，韩健康，鲍洪，李向阳	201320356085.8
一种非互动的无线图像传感器网络定位方法	发明专利	无锡儒安科技有限公司	刘云浩，何源，李向阳	201110222322.7
无线网络接入点的选择系统以及选择方法	发明专利	无锡儒安科技有限公司	郑霄龙，王继良，刘云浩，李向阳，吴晓培	201310281778.X
一种基于几何分布的射频标签数目估计方法	发明专利	无锡赛睿科技有限公司	龚伟,刘克斌,刘云浩，李向阳	201310251659.X
一种可验证的分布式隐私数据比较与排序方法及装置	发明专利	无锡赛思汇智科技有限公司	张兰，李向阳，刘云浩	201210505923.3
多摄像头下的行人匹配方法	发明专利	无锡赛思汇智科技有限公司	韩建康，曹志超，李向阳，毛续飞，刘云浩	201310520690.9
一种脑电信号监测装置与脑电信号采集方法	发明专利	无锡赛思汇智科技有限公司	李向阳，毛续飞；刘云浩，陶越	201310464388.6
一种智能电网的用电信息安全保护方法、装置及系统	发明专利	无锡赛思汇智科技有限公司	李向阳，赵京,刘云浩	201310464345.8
基于智能终端的司机识别方法和装置	发明专利	无锡赛思汇智科技有限公司	李向阳，波澄,刘云浩，毛续飞，	201310530968.0
一种生成地图的方法及系统	发明专利	无锡赛思汇智科技有限公司	李向阳，陈茜，刘云浩	201310508542.5
一种定位的方法及装置	发明专利	无锡赛思汇智科技有限公司	李向阳，毛续飞，刘云浩	201310530875.8
基于多维度行为特征的隐式用户验证及隐私保护方法	发明专利	无锡赛思汇智科技有限公司	波澄 张兰 李向阳	201310520123.3
一种基于行为特征的用户识别方法及系统	发明专利	无锡赛思汇智科技有限公司	李向阳，刘云浩，毛续飞	201310530940.7
一种无线通讯中自适应抗干扰的消息发送与接收方法及装置	发明专利	无锡赛思汇智科技有限公司	刘云浩，李向阳，毛续飞	201310576204.5
一种基于单摄像头的人员定位方法	发明专利	无锡赛思汇智科技有限公司	张兰、毛续飞、李向阳，刘云浩	201310589272.5
一种基于社会推荐网络和机制设计的专家寻找方法和系统	发明专利	无锡清华信息科学与技术国家实验室物联网技术中心	张兰、李向阳，刘云浩	201210559145.6
一种检测终端设备放置位置所属介质材料的方法	发明专利	无锡清华信息科学与技术国家实验室物联网技术中心	上官龙飞、杨铮、杨磊，刘云浩、李向阳	201310240769.6
基于自主协同的车载网络预警信息广播系统及方法	发明专利	无锡清华信息科学与技术国家实验室物联网技术中心	刘峻良，杨铮，刘云浩，赵弋洋，李向阳，何源	201310265442.4
特定场景下的行人颜色提取方法	发明专利	无锡清华信息科学与技术国家实验室物联网技术中心	韩建康，毛续飞，李向阳，刘云浩	201310481831.0
一种用电器任务调度方法和装置	发明专利	无锡清华信息科学与技术国家实验室物联网技术中心	李向阳；毛续飞,赵京,刘云浩	201310463564.4
一种基于野外环境的无线传感器的节点定位方法	发明专利	无锡清华信息科学与技术国家实验室物联网技术中心	李向阳，刘云浩，毛续飞	201310541352.3
一种多跳无线网络的分布式信道接入方法	发明专利	无锡清华信息科学与技术国家实验室物联网技术中心	李向阳，毛续飞，刘云浩	201310463018.0
基于智能设备的高精度步行方向检测方法	发明专利	无锡清华信息科学与技术国家实验室物联网技术中心	张兰、李向阳，刘云浩	201310659422.5
一种众包应用的补偿方法和装置	发明专利	无锡蹈凯科技有限公司	李向阳、赵东	201310528362.3
一种邻居用户设备的发现方法和装置	发明专利	无锡蹈凯科技有限公司	李向阳、韩俊泽	201310528349.8
可验证的分布式隐私数据比较与排序方法	发明专利	清华大学	张兰、李向阳，刘云浩	201310195731.1
无线传感器系统及数据收集方法	发明专利	清华大学	毛续飞，韩健康，王锋，刘云浩，李向阳	201310291571.0
一种图像隐私保护方法和系统	发明专利	清华大学	张兰、李向阳、苗欣、刘云浩	201310577037.6
基于马尔科夫模型的亚马逊弹性计算云竞价方法	发明专利	清华大学	李向阳;唐少杰;刘云浩;孙家广;毛续飞;苑璐;	201310507982.9
保护任意用户群数据隐私安全的和与积计算方法	发明专利	清华大学	孙家广；李向阳，郑泰浩；刘云浩	201310522898.4
基于离散对数的数据和与积的计算方法及装置	发明专利	清华大学	李向阳；孙家广；郑泰浩,刘云浩	201310507677.X
野外环境无线传感网络中未知节点的定位方法	发明专利	清华大学	波澄、李向阳、毛续飞	201310628562.6
可验证的隐私数据比较与排名查询方法	发明专利	清华大学	张兰、李向阳，刘云浩	201210564553.0
无线网络的低能耗路由选择方法	发明专利	北京浩阳华夏科技有限公司	李向阳、毛续飞、刘云浩、杨铮	201110031202.9
一种基于轮状图的无线网络终端的定位方法	发明专利	北京浩阳华夏科技有限公司	杨铮，刘云浩，何源，李向阳	201110031172.1

Figure 1: China patents applied by Prof. Li

4. SMARTLOC: SENSING LANDMARKS SILENTLY FOR SMARTPHONE BASED METROPOLI-TAN LOCALIZATION, IIT-291-P (Xiang Yang LI, Cheng Bo), 2014

3. A RELATIVE DIRECTION DETERMINATION METHOD FOR SMART GLASSES IIT-294-P (Xiang-Yang LI, Lan Zhang, Wenchao Huang, Kebin Liu), 2014

2. A VISUAL ATTENTION DRIVEN DEVICE PAIRING METHOD, IIT-295-P (Xiang-Yang LI, Lan Zhang, Wenchao Huang, Kebin Liu), 2014

1. Social Networking Reduces Peak Power Consumption in Smart Grid;, University of Florida No: 14870 (Dapeng Wu, QiuYuan Huang, Xin Li, Xiang-Yang Li, Jing Zhao), 2013

7 Teaching and Advising

7.1 Courses Designed, or Taught

Since I joined Illinois Institute of Technology, I have designed and introduced the following new courses:

1. **CS595/CS547 Cryptography and Network Security:** I initiated this course at IIT and then taught this course for many semesters.

2. **IPRO 307-Well Shaped Mesh Generation:** I initiated this course at IIT and then taught this course the following semester (Fall 2001).

3. **CS595: Economics and Computer Science:** I initiated this course at IIT and then taught this course the following semester (Summer 2004).

4. **CS557: Foundation of Cyber-Physical Systems:** I initiated this course at IIT as part of the funded NSF CPS project. I taught this course in Fall 2011, Fall 2013, Spring 2015.

5. **CS 595/495: Social Networking: Theory and Applications:** I initiated this course at IIT and taught this course in Spring 2013.

6. **IPRO 316: Belief Propagation in Social Networks:** 2012 Fall semester. Co-taught with Jennifer Miller and Sanjiv Kapoor. This is for undergraduate student project

7. **Seminar course on Algorithm Design and Analysis for Wireless Networks:** I co-initiated and co-organized this seminar with other faculty from CS department. This seminar course was offered in every semester since I joined IIT.

Since I joined Illinois Institute of Technology, I also taught the following courses:

1. **CS 330 Discrete Structures.**

2. **CS430 Introduction to Algorithms** I taught this course the following semester (Fall 2006, Spring 2010, Spring 2011). I taught this course in way that matches well to the similar courses taught at any top-tier graduate school at USA (such as MIT or UIUC).

3. **CS532 Formal Languages:** I taught this course the following semesters (Fall 2000, Fall 2001). I re-designed the course material such that it matches well to the similar courses taught at any top-tier graduate school at USA.

4. **CS530 Theory of Computation:** I taught this course the following semester (Fall 2008). The course material matches well to the similar courses taught at any top-tier graduate school at USA.

5. **CS597 CS Read/special Problems** I offered this course in every semester since I joined IIT. The students read papers assigned by me weekly and give presentation bi-weekly.

6. **CS591 (Research & Thesis for MS)** I offered this course for all semesters except Fall 2000. The students read papers assigned by me weekly and give presentation bi-weekly.

7. **CS691 (Research & Thesis for Ph.D)** I offered this course for all semesters except Fall 2000. The students read papers assigned by me weekly and give presentation bi-weekly.

For all the above courses, I prepared the electronic lecture slides and posted the majority of the slides online so that students can access them before the class starts. I hold office hours twice a week, every week, every semester, and I have always been available to students for their questions via email, phone calls, etc.

7.2 Current Graduate Students, Graduate Students Being Supervised, and Thesis Committees

Since I joined IIT in 2000, I had supervised a number of Ph.D. and MS students at the Department of Computer Science.

7.2.1 Graduated PhD Students

1. Yu Wang (2000-2004, a full professor at CS, UNCC);

2. Wen-Zhan Song (2001-2005, a full professor of CS Dept of Georgia State University);

3. Yusuf Hasan (2001-2005, co-advised with Prof. Morris Chang from ECE department of Iowa State Univ.);

4. Weizhao Wang (2002-2006), Senior Staff Engineer at Google,

5. Kousha Moaveninejad (2002-2008); Director of Software at Davachi Consulting,

6. Yanwei Wu (2005-2009, an associate professor at West Oregon University).

7. XuFei Mao (2006-2010, an assistant professor at Beijing University of Posts and Telecommunications, then a post-doc at Tsinghua Univ., BeiJing, China, now an assistant research professor at Tsinghua Univ.)

8. Ping Xu (2006-2010), a financial trader in Chicago.

9. Ashraf Nusairat (2004-2011, worked at Motorola, now Wireless Broadband Architect at Cambium Networks).

10. XiaoHua Xu (2007-2012), visiting assistant professor at Toledo (2013-2014), then visiting assistant professor at Michigan Technology University (2014-2015).

11. Cheng Wang (2007-2011, Co-advised, from TongJi University, China, graduated 2011). Assistant Professor at TongJi University, 2011-2014), Associate Professor at TongJi University (2014-2015).

12. ShaoJie Tang (2006-2012): wireless networks, social networks, (visiting assistant professor at Temple, 2013 to June 2014. Assistant Professor at University of Texas at Dallas, 2014 —present)

7.2.2 Graduated Co-Supervised PhD Students in China

For these PhD students our collaborated research lead to PhD thesis. Congratulations to all.

1. Lan Zhang (2009-2014), Tsinghua University, research on privacy and mobile computing. Now Post-Doc at Tsinghua University.

2. ZhiPing Jiang (2012-present), Xi'An JiaoTong University, research on mobile computing,

3. Wei Xi (2008-2014, co-advised student), Xi'An JiaoTong University, Now an assistant professor at Xi'An JiaoTong University.

4. Dong Zhao (2010-2014, Thesis "Research on data gathering problem in mobile crowd-sensing networks"), BUPT. Now an assistant professor at BUPT

5. Yin Wang (2010.9-2014.6, co-advised student, Thesis "Exploiting Constructive interference in sensor and ad hoc networks"), Tsinghua University, Now CEO of a startup company

6. Haitao Zhang (2008.9-2012.7, Thesis, "RESEARCH ON DATA TRANSMISSION SCHEDULING IN WIRElESS SENSOR NETWORKS"), BeiJing University of Post and Telecommunications, BeiJing, now assistant professor at BUPT.

7. YanLi Cai, Shang-Hai JiaoTong University, 2009. Working at Google

8. Yubo Yan (2011.9-2015, PLA University of Science and Technology)

9. Bowen Li (2008-2012, PLA University of Science and Technology, Thesis, "Research on Online Decision and Learning in DSA Networks Based on Stochastic Optimization Theory"), now a Post-Doc at Tsinghua University

10. YaQin Zhou (2010-2014, Institute Of Computing Technology, Chinese Academy Of Sciences), now a post-doc at Singapore University of Technology and Design (with David Yau)

11. Lufeng Mo (2007-2012, Xi'An JiaoTong University), now an associate professor at Zhejiang Forestry University

12. Chao Ren (2007-2010, co-advised, Northwestern Polytechnical University), now working at Ministry of Education, China

13. Deke Guo (2003-2008, Thesis title "Research on Peer-to-Peer Networks Based on Kautz Digraph and Bloom Filters"), NUDT. Now an associate professor at NUDT.

14. Dezun Dong (2005.2 to 2010.12, Thesis "Research on Topology Recognition and Construction in Wireless Sensor Networks"), NUDT, now an associate professor at NUDT.

7.2.3 Graduated MS Students

1. 2004: Ovidiu Gabriel Cristea (CS, IIT),

2. 2005: Mihai Moldovan (CS, IIT),

3. 2006: QiZhong Hu (CS, IIT), Chang-Ling Huang (CS, IIT), Sebastian Vas (CS, IIT),

4. 2009: Min Gyung Kwak (CS, IIT).

5. 2010: YiTian Pan (CS, IIT, 2010-2011), Eric Sze Ching Duan (CS, IIT, 2010-2012, sensor networks), Unsuk Heo (CS, IIT, undergraduate, 2010-2011), Yue Tao (EE, IIT, 2010-2012, sensor networks), Hao Bian (CS, IIT, 2010-2012, security), SuFeng Niu (EE, IIT, 2010-2012),

6. 2011: ShiGuang Wang (2008-2011), Xiao Han (CS, IIT, 2011), PengQian Hu (CS, IIT, 2011-2012), GuoBiao Yang (CS, IIT, cloud computing, 2011-2012), Chan Guo (CS, IIT, Spam Detection on social networks, 2012), YanJie Wang (CS, IIT, 2011-2012), Juan Garcia (CS, IIT), Siddharth Shankar (CS, IIT, 2011-2012), Wei Wang (CS, IIT, 2011-2012), YiFan Zhu (CS, IIT, 2011-2012), ShuFan Wang (CS, IIT, 2011), Xuesi Jian (CS, IIT, 2011-2013, social networks and privacy), RuiHan Zhu (CS, IIT, 2011-2012, social networks),

7. 2012: ShuKun Xie (CS, IIT, 2012-, cloud computing),

8. 2013: Jiawei Cao (CS, IIT, 2013-2014) Dong Ding (CS, IIT, 2013-) Hanlu Feng (CS, IIT, 2013-) Haohua Du (CS, IIT, 2013-) JingShan Yin (CS, IIT, 2013-2014) Ruoxi Chen (CS, IIT, 2013-2013) YueQing Zhang (CS, IIT, 2013-) Qian Zhang (CS, IIT, 2013-) Cheng Bo (localization, sensor networks, 2011-2013, joining UNCC from 2014 after exiting PhD in 2013)

9. 2014: Yue Tao (cognitive radio networks, sensor networks, PhD started in 2012, exit the program in 2014 with MS degree).

7.2.4 Visiting Scholars

1. DongSong Chen (Department of Computer Science, NorthEastern University, China, 7.2006 -7.2007).

2. XiaoBing Wu (PhD student, Department of Computer Science, NanJing University, 10.2007-10.2008)

3. Lan Shen (ZheJing Province, China, 8.2007-8.2008)

4. YuanFang Chen (PhD student, Dalian University of Technology, China), 9.2009-8.2010.

5. Dan Tao, BeiJing Jiaotong University (2010.11-2011.11)

6. Haitao Zhang, (PhD Student) BeiJing University of Posts and Telecommunications (2010.10-2011.10)

7. Lan Yao, NorthEastern University (2011.11-2012.11),

8. ZhiBin Zhao, NorthEastern University (2012.04-2013.04),

9. Dong Zhao, (PhD student) BeiJing University of Posts and Telecommunications (2012.10-2013.10)

10. Xu Zhang, BeiJing University of Posts and Telecommunications (2012.12-2013.12)

11. ZengHua Zhao, TianJing University, (2013.9-2014.3)

12. Yonglei Yao, NanJing University of Information Science and Technology (2013.10–2014.10)

13. JiaHao Wang, University of Electronic Science and Technology, Chendu (2014.1.-2015.1)

14. ChunHong Zhang, BeiJing University of Posts and Telecommunications (2014.4-2015.4)

15. Gang Lu, Shaanxi Normal University, April 2014–March 2015

16. Jumin Zhao, Taiyuan University of Technology, August 31st 2014 - August 30th 2015.

17. Yifeng Zhong, TsingHua University, September 3rd 2014– – –September 2nd, 2015

18. Lufeng Mo, Zhenjiang Forestry University, September 1st 2014-February 2015.

19. Jie Hu, TsingHua University, September 2014 – September 2015.

20. Lin Wang, Yanshan University, September 30 2014 – September 29 2015.

21. Mengshu Hou, University of Electronic Science and Technology of China, Cheng du, August 1 2015-July 31st 2016.

7.2.5 Current PhD Students

1. Taeho Jung, PhD candidate, (Computer Science), Illinois Institute of Technology, 2011-

2. Junze Han, PhD candidate, (Computer Science), Illinois Institute of Technology, 2011-

3. Jing Zhao, PhD candidate, (Computer Science), Illinois Institute of Technology, 2012-

4. Xuesi Jian, PhD candidate, (Computer Science), Illinois Institute of Technology, 2014-

5. Cheng Bo, PhD candidate, (Computer Science), University of North Carolina at Charlotte, 2011-

6. Haohua Du, PhD candidate, (Computer Science), Illinois Institute of Technology, 2015-

7. Jianwei Qian, PhD candidate, (Computer Science), Illinois Institute of Technology, 2015-

8. Linlin Chen, PhD candidate, (Computer Science), Illinois Institute of Technology, 2015-

9. JiaHui Hou, PhD candidate, (Computer Science), Illinois Institute of Technology, 2015-

10. Rui Zou, PhD candidate, (Computer Science), Illinois Institute of Technology, 2015-

11. Qian Zhang, PhD candidate, (Computer Science), Beijing Institute of Technology, China, 2015-

7.2.6 Thesis Committees

I was in the thesis committee of the following students (not inclusive, may have missed some students).

1. Nguyen, Antonie-Dienth (2001), MS. Computer Science, Illinois Institute of Technology.

2. Naga Kunderu (2004), MS. Computer Science, Illinois Institute of Technology.

3. Khaled M. Alzoubi (2003), Ph.D. Computer Science, Illinois Institute of Technology. I am one of the co-authors of several research papers which form the basis of the main component of the thesis. He joined the Department of Computer Science, Saint Xavier University Fall Semester 2003 as an assistant professor.

4. Chih-Wei Yi (2005), Ph.D. Computer Science, Illinois Institute of Technology. I am one of the co-authors of several research papers which form the basis of the main component of the thesis. He will join the Department of Computer Science, Taiwan National Chiao Tung University from Fall Semester 2005 as an assistant professor.

5. HaiGang Feng (2005), Ph.D. Electrical and Computer Engineering, Illinois Institute of Technology.

6. Erdal Oruklu (2005), Ph.D. Electrical and Computer Engineering, Illinois Institute of Technology.

7. Nie Zhong (2005), Ph.D. Electrical and Computer Engineering, Illinois Institute of Technology.

8. Yufeng Lu (2005). Ph.D. Electrical and Computer Engineering, Illinois Institute of Technology.

9. Nathan Jachimiec (2005). Ph.D. Electrical and Computer Engineering, Illinois Institute of Technology.

10. Sutep Tongngam (2008), PhD, Computer Science Department, Illinois Institute of Technology.

11. Sungjoon Yoon (2008), Ph.D. candidate, Electrical and Computer Engineering, Illinois Institute of Technology.

12. Xin Xiao (2008), Ph.D. candidate, Electrical and Computer Engineering, Illinois Institute of Technology.

13. Ho Phi Dam (2008), Ph.D. candidate, Electrical and Computer Engineering, Illinois Institute of Technology.

14. Chanoch (Ken) Bloom (2009), PhD candidate, Computer Science Department, Illinois Institute of Technology.

15. Yong Hao (2010), PhD Candidate. Electrical and Computer Engineering, Illinois Institute of Technology.

16. Zhu Wang (2013), PhD Candidate, Computer Science, Illinois Institute of Technology (graduated in May 2014).

17. Boli Xu (2013), PhD Candidate, Computer Science, Illinois Institute of Technology (graduated in December 2014).

18. Gautam Divgi (2014), PhD Candidate. Computer Science, Illinois Institute of Technology.

8 University Service and Professional Activities

8.1 Service to the Department and University

1. Department PhD Coordinator (2010-present),
2. Department Award Chair (2010-2011)
3. University CAMCOPT for faculty promotion (2013-2014),
4. University Faculty Council,
5. University Research Council (2012-present)
6. Vice chair of Promotion and Tenure committee, 2008.
7. Chair search committee, 2005, 2006, 2009.
8. Graduate Student Admission Committee: (Fall 2000, Spring 2001, Fall 2001, Spring 2002, Fall 2002, Spring 2003, Fall 2003, Spring 2004, Fall 2004, Spring 2005). I have been processing the admission of graduate student at the Department of Computer Science.
9. Graduate Study Committee: (Fall 2002, Spring 2003, Fall 2003, Spring 2004, Fall 2004, Spring 2005). At graduate study committee, we revisited the graduate program at Computer Science Department: removed some courses that are outdated, added some new courses, revised the MS program, revised the PhD program, added a new Master of Computer Science program, added a new directed PhD program. Currently, we are prepare documents for the accreditation of the graduate program at Computer Science Department. We developed the survey forms for the graduate courses, for the graduating student. We also oversee the PhD qualify exam. We also decided whether a graduate student can transfer courses from outside of the Department of Computer Science at IIT.
10. Undergraduate Study Committee: (Fall 2000, Spring 2001, Fall 2001, Spring 2002). At undergraduate study committee, we revisited the undergraduate program at Computer Science Department: removed some courses that are outdated, added some new courses, revised the BS program (such as the selective courses). We prepared documents for the accreditation of the undergraduate program at Computer Science Department and it successfully passed the accreditation.
11. Undergraduate CAMRAS award interviewer.
12. Faculty advisor to the IIT student badminton club.
13. IIT Sophomore Leadership Retreat 2004.

8.2 Service to the Discipline

1. Advisory Board of Ad Hoc & Sensor Wireless Networks: An International Journal. 2009-present. (SCI-E indexed)

2. Steering Committee member of The ACM International Workshop on Foundations of Wireless Ad Hoc and Sensor Networking and Computing (ACM FOWANC), 2008-present.

3. Steering Committee member of AAIM: International Conference on Algorithmic Aspects in Information and Management, 2005-present

4. **Associate Editor** of IEEE Transactions on Mobile Computing Dec 2011-present.

5. **Editor** of IEEE Transaction on Parallel and Distributed Systems, 2009 to 2013.

6. **Editor** of *Networks: An International Journal*, Wiley. 2009-present.

7. **Editor** of *Ad Hoc & Sensor Wireless Networks: An International Journal*, 2005-2009. SCI Expanded Index.

8. **Advisory Board member** of IEEE Computing Now (2011-present).

9. **Editor** of TsingHua Science and Technology, 2010-present.

10. **Editor** of Computer Communications Journal, 2011-present. (SCI-Expanded indexed)

11. **Guest editor** (with YunHao Liu, WenZhan Song, My Thai) of Ad Hoc Networks Journal on "Recent Advances in Large Scale and Sustainable Wireless Sensor Networks". February 15, 2010 to December 15, 2010. See here for Call For Papers, in text format, and PDF format.

    Guest editor (with Jiangchuan Liu, Jiannong Cao, Xiang-Yang Li, Limin Sun, Dan Wang, Edith C.-H. Ngai) of EURASIP Journal on Wireless Communications and Networking, special issue on Design, Implementation, and Evaluation of Wireless Sensor Network Systems February 15, 2010 to August 15, 2010.

    Guest Editor (with James Chang Wu Yu) of International Journal of Ad Hoc and Ubiquitous Computing (IJAHUC), Special Issue on: "Wireless Network Algorithm and Theory", 2009-2010.

    Guest-Editor of a special issue of ACM Mobile Networks and Applications (MONET) on Non-Cooperative Wireless Networking and Computing, 2004-2005.

    Guest-Editor of IEEE JSAC Special Issue on Non-Cooperative Issues in Distributed Computing and Networking, 2005-2006.

12. An international panel member for The Information Systems Directory of National Natural Science Foundation of China, 2007, 2008, 2009, 2010.

13. **Conference & Workshop Organization**:

    (a) General Chair, Big Data Computing and Communications Conference 2015
    (b) TPC Track Chair, IEEE DCOSS 2015
    (c) General Co-chair, 3rd International Workshop on Software-Defined Sensor Network (SDSN), 2015, Tokyo, Japan.
    (d) TPC Co-Chair of ACM MobiHoc 2014
    (e) TPC Co-Chair of IEEE MASS 2013,
    (f) TPC Co-Chair of MSN 2012 conference.
    (g) TPC co-chair of Adhocnow conference 2012, Serbia.
    (h) TPC chair of IEEE International Symposium on Wireless Pervasive Computing, 2012.
    (i) TPC vice chair of CGC2011 - International Conference on Cloud and Green Computing
    (j) IEEE ICPADS 2011 Track Chair of Mobile Computing Track.
    (k) TPC vice chair of IEEE MASS, 2011
    (l) TPC vice chair of AAIM/FAW 2011
    (m) TPC chair of MSN 2011.
    (n) Local arrangement chair of ACM MobiCom, ACM Mobihoc. Workshop chair of MSN 2010. TPC member of IEEE INFOCOM.
    (o) TPC Chair of IEEE WiNA workshop of IEEE MASS 2009.
    (p) Chair of 1st International Workshop on Foundations of Wireless Ad Hoc and Sensor Networking and Computing (FOWANC 2008) will be co-located with ACM MobiHoc 2008.
    (q) Chair of 3rd International Conference on Algorithmic Aspects of Information and Management. AAIM 2007.
    (r) From June 11th to 12th, 2004, I successfully organized the International Workshop on Theoretical Aspects of Wireless Ad Hoc, Sensor, and Peer-to-Peer Networks. This workshop is supported by NSF.

14. President of SoCAPS (Society of Chinese American Professors and Scientists), Chicago Chapter, 2004-present; Council member of SoCAPS, 2005, Oct,–present.

    I also had been invited to serve as a TPC member for numerous international conferences.

9 Partial List of Invited Talks and Tutorials

9.1 General Education Talks

13. You and Your Research, 2015, 9th International Conference of IoT and Cloud Computing, WuXi, July 8th, 2015

12. You and Your Research, 2014 Summer School, Nanjing, 2014/07/14,

11. You and Your Research, NanJing University of Information Science and Technology, 2014/06/13,

10. You and Your Research, Department of Computer Science, University of Science and Technology, (UST, HeFei), March 13, 2014,

9. You and Your Research, Department of Computer Science, HIT (Harbin), Jan 13, 2014,

8. You and Your Research, Network research group, CS Department, Tsinghua University, Jan 8, 2014,

7. You and Your Research, International Conference for Internet of Things, WuXi Research Center of Internet of Things, Dec 21, 2013,

6. You and Your Research, Department of Computer Science, Tsinghua University, Dec 14, 2013,

5. From student to researcher and more, WenZhou University, 2009/06/15,

4. From student to researcher and more, ZheJiang Forest University, 2009/05/20,

3. How To Do Good Research, HangZhou DianZi University, January 8, 2009,

2. From student to researcher and more, Dalian University of Technology, June 26, 2008,

1. From student to researcher and more, Microsoft Research Asia, 2007/10/26.

9.2 Conference Keynote Talks

9. Keynote: Internet of Things: Sensor Networking, RFID, and Beyond. Second Anhui-Taiwan Internet of Things Conference, 2015, July 13.

8. KEYNOTE: Privacy Preserving Computation in Mobile, Crowd-sourcing, and Computing, Annual Meeting of Internet Professional Committee of China Computer Society, 2014 China National Computer Congress, Zheng-Zhou October 24, 2014,

7. KEYNOTE: Privacy Preserving Computation in Mobile, Crowd-sourcing, and Computing, 13th IEEE International Conference on Trust, Security and Privacy in Computing and Communications (IEEE TrustCom-14), Beijing, September 26, 2014,

6. KEYNOTE: Large Scale Wireless Network Systems: Theory, Experience, and Lessons, the 3rd International Symposium on Networked Embedded System for Internet of Things (http://www.u-aizu.ac.jp/ sguo/nest2014/), Aizuwakamatsu, Japan on Sep. 23-25, 2014. The symposium is a part of MCSoC (http://www.mcsoc-forum.org/),

5. KEYNOTE: Large Scale Wireless Network Systems: Experience, Lessons, and Theories, WuXi Research Center of Internet of Things, April 9th, 2014, Invited talk, Push the Limit of Wireless Network Capacity: A Tale of Cognitive and Coexistence, ACM MobiCom workshop CRAB, Oct 4, 2013,

4. KEYNOTE for ACM China ShangHai Chapter, Privacy Preserving Computation in Mobile, Crowd-sourcing, and Computing, ShangHai, China, December 21, 2012,

3. KEYNOTE: Privacy Preserving Computation in Mobile, Crowd-sourcing, and Computing, 2012 Advanced Symposium of IOT and Big Data, ChenDu, China, December 16, 2012,

2. Keynote: Some Research Issues in Wireless Networking, Second China Wireless Sensor Networking Conference, and First China-Korea Wireless Sensor Networking Forum, Beijing, (China CCF Technical Committee on Sensor Network), July 10, 2008,

1. KEYNOTE: Multicast Capacity for Large Scale Wireless Ad Hoc Networks Key-Note Address, First National Conference of China on Sensor Network (CWSN), August, 31, 2007, China, Harbin.

9.3 Tutorial Talks or Meeting Talks

3. TUTORIAL: Participatory Wireless Networking, Panlong Yang (Institute of Communication Engineering, PLAUST, P.R. China); Xiang-Yang Li (Illinois Institute of Technology, USA), June 10, 2014, ICC 2014,

2. PI-Meeting: EARS: Providing Predictable Service and Spectrum Access Realtime Decision in Cognitive Multihop Wireless Networks, PI meeting, Oct 6, 2013,

1. TUTORIAL: Algorithm and Graph Issues in Wireless Networks, Tutorial, ACM MobiHoc, May 29th, 2005,

9.4 Colloquium or Invited Talks

49. Computer Science and Economics, AliBaba, HangZhou, China, July 21, 2015.

48. High Precision Real-Time Tracking with RFID Tags Using COTS Devices; Southeastern University, China, July 7th, 2015.

47. Internet of Things: Sensor Networking, RFID, and Beyond. ChangZhou University, 2015, June 29.

46. Internet of Things: Sensor Networking, RFID, and Beyond; Rutgers University, March 25, 2015.

45. High Precision Real-Time Tracking with RFID Tags Using COTS Devices; HongKong Baptist University, March 13, 2015.

44. Privacy Preserving Computation in Mobile, Crowd-sourcing, and Computing, Zhejiang University of Technology, December 6, 2014

43. Large Scale Wireless Network Systems: Experience, Lessons, and Theories, Taiyuan University of Technology, November 28, 2014.

42. Real-Time Tracking of Mobile RFID Tags to Millimeter-Level Accuracy Using COTS, CS Department, UT Dallas, November 14, 2014,

41. Real-Time Tracking of Mobile RFID Tags to Millimeter-Level Accuracy Using COTS, ECE Department, UIUC, October 30, 2014,

40. Real-Time Tracking of Mobile RFID Tags to High-Accuracy Using COTS, Rutgers, September 17, 2014,

39. Real-Time Tracking of Mobile RFID Tags to Millimeter-Level Accuracy Using COTS, School of Computer Science, TuZhou College, June 26, 2014,

38. Real-Time Tracking of Mobile RFID Tags to Millimeter-Level Accuracy Using COTS, Bejing Institute of Technology, June 20, 2014,

37. Privacy Preserving Computation in Mobile, Crowd-sourcing, and Computing, Department of Computer Science, Nanjing University of Information Science and Technology, June 17, 2014,

36. Large Scale Wireless Network Systems: Theory, Experience, and Lessons, Department of Computer Science, Northeastern University, China, April 14, 2014,

35. Privacy Preserving Computation in Mobile, Crowd-sourcing, and Computing, Department of Computer Science, Nanjing University, March 19, 2014,

34. Large Scale Wireless Network Systems: Experience, Lessons, and Theories, AnHui University, March 13, 2014,

33. Large Scale Wireless Network Systems: Theory, Experience, and Lessons, Purdue Calumet, Nov 14, 2013, Privacy Preserving Computation in Mobile, Crowd-sourcing, and Computing. Bejing Institute of Technology, July 3, 2013, The Keynote Series for 21st Century Research Frontier,

32. Privacy Preserving Computation in Mobile, Crowd-sourcing, and Computing, Dalian University of Technology, Dalian, May 17, 2013,

31. Privacy Preserving Computation in Mobile, Crowd-sourcing, and Computing, Shanghai University of Electric Power, ShangHai, May 14, 2013,

30. Smoothing the Energy Consumption: Peak Demand Reduction in Smart Grid, Shanghai University of Electric Power, ShangHai, May 14, 2013,

29. Large Scale Wireless Network Systems: Theory, Experience, and Lessons, Department of CS, SIS Seminar, University of North Carolina at Charlotte, February 8, 2013,

28. Privacy Preserving Computation in Mobile Crowd-sourcing and Computing, Tsinghua National Lab on Information and Technology, 2012/12/22,

27. Privacy Preserving Computation in Mobile Crowd-sourcing and Computing, Xi'An JiaoTong University, 2012/12/17,

26. Privacy Preserving Computation in Mobile Crowd-sourcing and Computing, ShangHai JiaoTong University, 2012/12/7,

25. Large Scale Wireless Network Systems: Theory, Experience, and Lessons, University of Science and Technology, Anhui, China, Oct 30, 2012, talk news

24. Large Scale Wireless Network Systems: Theory, Experience, and Lessons, Department of Computer Science, August 15th, 2012, Simon Fraser University,

23. Large Scale Wireless Network Systems: Theory, Experience, and Lessons, Department of ECE, Clemson University, February 7, 2012,

22. Large Scale Wireless Network Systems: Theory, Experience, and Lessons, CSE Department, University of Notre Dame, February 2, 2012,

21. Efficient Spectrum Allocation and Auction for Wireless Networks, University of Iowa, March 30, 2009,

20. Asymptotic Capacity of Large Scale Wireless Networks, University of Electronic Science and Technology of China (formerly Chengdu Institute of Radio Engineering), January 10, 2009,

19. Multicast Capacity for Large Scale Wireless Ad Hoc Networks Computer Science Department, HKUST, HongKong, Oct. 29, 2007,

18. How Much Is It Worth? Computer Science Department, NanJing University. China, Sept. 25, 2007,

17. Well-Shaped Delaunay Mesh Generation, Invited talk, Computer Science Department, University of Illinois at Chicago, USA. September 26th, 2005,

16. Wireless Ad hoc/Sensor Networks: Energy Efficiency and Cooperativeness, CS department, IIT, Sept 19th, 2005.

15. Strategyproof Network Protocol Design, Invited talk at Computer Science Department, Kent State University, USA. Feb 18th, 2005,

14. Price of Anarchy and Strategyproof Network Protocols, Invited talk at Mathematics Department, BeiJing University of Science of Technology, China. January 5th, 2005,

13. Truthful Multicast in Selfish Wireless Ad Hoc Networks, Department of Computer Science, HongKong Baptist University, March, 2004,

12. Strategyproof Routing in Selfish Wireless Networks, Invited talk at IIMAS-UNAM, Mexico. May 11th 2004,

11. Wireless Ad Hoc Networks: a computational Geometric Approach, Invited talk at IIMAS-UNAM, Mexico. May 13th, 2004,

10. Price of Anarchy and Strategyproof Network Protocols, Invited talk at Computer Science Department, HongKong City University, HongKong. Aug 10th, 2004,

9. Strategyproof Network Protocol Design, Invited talk at Computer Science Department of NanJing University of Aeronautics and Astronautics (NUAA), China. Aug 25th, 2004,

8. Price of Anarchy and Strategyproof Network Protocols, Invited talk at Computer Science Department, Wayne State University, USA. Sept 14th, 2004,

7. Price of Anarchy and Strategyproof Network Protocols, Invited talk at Computer Science Department of TianJing University, China. December 20th, 2004,

6. Application of Computational Geometry in Wireless Networks, Invited talk at Computer Science Department of TianJin University, China. December 27th, 2004,

5. Communications in Selfish Wireless Ad Hoc Networks, Department of Computer Science, Tsinghua University, December, 2003,

4. Communications in Selfish Wireless Ad Hoc Networks Department of Computer Science, TianJin University, December, 2003,

3. Computational Geometry and Wireless Ad Hoc Networks, Department of Computer Science, TianJin University, December, 2003,

2. Geometric and Game Theoretical Approaches for Wireless Networks Department of Computer Science, University of Illinois at Urbana-Champaign, October, 2003,

1. Computational Geometry and Wireless Ad Hoc Networks Computer Science Department, Purdue University. Indiana, Nov. 15-16, 2001,

10   Membership in Professional Societies and Civic Activities

- ACM Distinguished Scientist, 2015
- IEEE Fellow, 2015,
- **President** of **SoCAPS** (Society of Chinese American Professors and Scientists), Chicago Chapter. See http://www.socaps.org/

This CV is updated on August 9, 2015 by Xiang-Yang Li.