

# CURRICULUM VITAE

Xiang-Yang Li

## Contents

<b>1</b>	<b>Education (Ph.D. 2001, MS 2000, B.S. and B.M., 1995)</b>	<b>1</b>
<b>2</b>	<b>Professional History</b>	<b>1</b>
<b>3</b>	<b>Professional Honors, Visiting Professorship, Research Supports and Awards</b>	<b>2</b>
3.1	Honors, Titles, and Adjunct Visiting Professorship . . . . .	2
3.2	Research Funding . . . . .	2
3.3	Research Awards . . . . .	4
3.4	Other Professional Achievements . . . . .	4
<b>4</b>	<b>Research Concentration and Highlights</b>	<b>5</b>
<b>5</b>	<b>List of Publications</b>	<b>6</b>
5.1	Books Written or Edited . . . . .	6
5.2	Proceedings Editorship . . . . .	6
5.3	Book Chapters or Entries . . . . .	6
5.4	Journal Papers . . . . .	8
5.5	Peer-Reviewed Conference papers . . . . .	15
5.6	Reviewed Conference Demo Papers . . . . .	25
5.7	Reviewed Conference Poster Papers . . . . .	25
5.8	Peer-Reviewed Workshop Papers . . . . .	26
5.9	Reference Works . . . . .	26
5.10	Informal Online Publications (arXiv) . . . . .	26
<b>6</b>	<b>List of Patents</b>	<b>28</b>
<b>7</b>	<b>Teaching and Advising</b>	<b>30</b>
7.1	Courses Designed, or Taught . . . . .	30
7.2	Current Graduate Students, Graduate Students Being Supervised, and Thesis Committees . . . . .	31
7.2.1	Graduated PhD Students . . . . .	31
7.2.2	Graduated Co-Supervised PhD Students in China . . . . .	31
7.2.3	Graduated MS Students . . . . .	32
7.2.4	Visiting Scholars . . . . .	33
7.2.5	Current PhD Students . . . . .	33
7.2.6	Thesis Committees . . . . .	34
<b>8</b>	<b>University Service and Professional Activities</b>	<b>35</b>
8.1	Service to the Discipline . . . . .	35
8.2	Service to the Department and University, at USTC . . . . .	36
8.3	Service to the Department and University, at IIT . . . . .	36
<b>9</b>	<b>Partial List of Invited Talks and Tutorials</b>	<b>37</b>
9.1	General Education Talks . . . . .	37
9.2	Conference Keynote Talks . . . . .	37
9.3	Tutorial Talks or Meeting Talks . . . . .	38
9.4	Colloquium or Invited Talks . . . . .	38
<b>10</b>	<b>Membership in Professional Societies and Civic Activities</b>	<b>40</b>

# CURRICULUM VITAE

Xiang-Yang Li

(updated February 25, 2016)

Office Address

School of Computer Science and Technology  
University of Science and Technology of China

Contacts

**Email:** xiangyangli@ustc.edu.cn

**URL:** <http://staff.ustc.edu.cn/~xiangyangli>

**Highlights:** IEEE Fellow (class of 2015), ACM Distinguished Scientist (2015). Based on Google Scholar, the total citations of our papers are  $\sim 12,000$ , and the Google Scholar H-Index is  $\sim 56$ . Won 5 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, 2001.

**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, 2016** Professor and Dean, School of Computer Science and Technology, University of Science and Technology of China

**Since January, 2014** EMC-Endowed Visiting Chair Professor at Tsinghua University (2014 to 2015, 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 OVFS-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 OVFS-CDMA Wire-less 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 CO<sub>2</sub> 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

124. Chaocan Xiang, Panlong Yang, Chang Tian, Changzheng Li, Qingyu Li, Xiang-Yang Li: Accurate Quantification of Sensor Noise in Participatory Sensing Network. *Ad Hoc & Sensor Wireless Networks* 30(3-4): 163-182 (2016)
123. Jiliang Wang, Zhichao Cao, XuFei Mao, Xiang-Yang Li, Yunhao Liu: Towards Energy Efficient Duty-Cycled Networks: Analysis, Implications and Improvement. *IEEE Trans. Computers* 65(1): 270-280 (2016)
122. Taeho Jung, Xiang-Yang Li, Zhiguo Wan, Meng Wan: Rebuttal to "Comments on 'Control Cloud Data Access Privilege and Anonymity With Fully Anonymous Attribute-Based Encryption'". *IEEE Transactions on Information Forensics and Security* 11(4): 868 (2016)
121. Xi Chen, Xiaopei Wu, Xiang-Yang Li, Xiaoyu Ji, Yuan He, Yunhao Liu: Privacy-Aware High-Quality Map Generation with Participatory Sensing. *IEEE Trans. Mob. Comput.* 15(3): 719-732 (2016)
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)
85. Cheng Wang, Shaojie Tang, Xiang-Yang Li, Changjun Jiang: Multicast Capacity Scaling Laws for Multihop Cognitive Networks. *IEEE Trans. Mob. Comput.* 11(11): 1627-1639 (2012)
84. Ashraf Nusairat, Xiang-Yang Li: WiMAX/OFDMA Burst Scheduling Algorithm to Maximize Scheduled Data. *IEEE Trans. Mob. Comput.* 11(11): 1692-1705 (2012)
83. XiaoHua Xu, Xiang-Yang Li, Peng-Jun Wan, Shaojie Tang: Efficient Scheduling for Periodic Aggregation Queries in Multihop Sensor Networks. *IEEE/ACM Trans. Netw.* 20(3): 690-698 (2012)
82. Cheng Wang, Changjun Jiang, Shaojie Tang, Xiang-Yang Li: SelectCast: Scalable Data Aggregation Scheme in Wireless Sensor Networks. *IEEE Trans. Parallel Distrib. Syst.* 23(10): 1958-1969 (2012)
81. Bowen Li, Panlong Yang, Jinlong Wang, Qihui Wu, Shaojie Tang, Xiang-Yang Li, Yunhao Liu: Optimal Frequency-Temporal Opportunity Exploitation for Multichannel Ad Hoc Networks. *IEEE Trans. Parallel Distrib. Syst.* 23(12): 2289-2302 (2012)
80. XuFei Mao, XiaoHua Xu, Shaojie Tang, Xiang-Yang Li: Providing and finding k-road-coverage efficiently in wireless sensor networks. *Wireless Communications and Mobile Computing* 12(12): 1053-1065 (2012) 2011
79. XuFei Mao, Shaojie Tang, Xiang-Yang Li, Ming Gu: MENs: Multi-user Emergency Navigation System Using. *Ad Hoc & Sensor Wireless Networks* 12(1-2): 23-53 (2011)
78. Cheng Wang, Changjun Jiang, Xiang-Yang Li, Yunhao Liu: On multicast throughput scaling of hybrid wireless networks with general node density. *Computer Networks* 55(15): 3548-3561 (2011)
77. Xiang-Yang Li, Yajun Wang, Yu Wang: Complexity of Data Collection, Aggregation, and Selection for Wireless Sensor Networks. *IEEE Trans. Computers* 60(3): 386-399 (2011)
76. Ping Xu, Xiang-Yang Li, Shaojie Tang, Jizhong Zhao: Efficient and Strategyproof Spectrum Allocations in Multichannel Wireless Networks. *IEEE Trans. Computers* 60(4): 580-593 (2011)
75. Cheng Wang, Xiang-Yang Li, Changjun Jiang, Shaojie Tang, Yunhao Liu: Multicast Throughput for Hybrid Wireless Networks under Gaussian Channel Model. *IEEE Trans. Mob. Comput.* 10(6): 839-852 (2011)

74. Mo Li, Wei-Fang Cheng, Kebin Liu, Yunhao Liu, Xiang-Yang Li, Xiangke Liao: Sweep Coverage with Mobile Sensors. *IEEE Trans. Mob. Comput.* 10(11): 1534-1545 (2011)
73. Ping Xu, Xiang-Yang Li: TOFU: semi-truthful online frequency allocation mechanism for wireless network. *IEEE/ACM Trans. Netw.* 19(2): 433-446 (2011)
72. Dezun Dong, Mo Li, Yunhao Liu, Xiang-Yang Li, Xiangke Liao: Topological Detection on Wormholes in Wireless Ad Hoc and Sensor Networks. *IEEE/ACM Trans. Netw.* 19(6): 1787-1796 (2011)
71. XiaoHua Xu, Xiang-Yang Li, XuFei Mao, Shaojie Tang, ShiGuang Wang: A Delay-Efficient Algorithm for Data Aggregation in Multihop Wireless Sensor Networks. *IEEE Trans. Parallel Distrib. Syst.* 22(1): 163-175 (2011)
70. ShiGuang Wang, XuFei Mao, Shaojie Tang, Xiang-Yang Li, Jizhong Zhao, Guojun Dai: On "Movement-Assisted Connectivity Restoration in Wireless Sensor and Actor Networks". *IEEE Trans. Parallel Distrib. Syst.* 22(4): 687-694 (2011)
69. Yu Wang, Xiang-Yang Li, Wen-Zhan Song, Minsu Huang, Teresa A. Dahlberg: Energy-Efficient Localized Routing in Random Multihop Wireless Networks. *IEEE Trans. Parallel Distrib. Syst.* 22(8): 1249-1257 (2011)
68. XuFei Mao, Shaojie Tang, XiaoHua Xu, Xiang-Yang Li, Huadong Ma: Energy-Efficient Opportunistic Routing in Wireless Sensor Networks. *IEEE Trans. Parallel Distrib. Syst.* 22(11): 1934-1942 (2011)
67. Siyuan Chen, Yu Wang, Xiang-Yang Li, Xinghua Shi: Capacity of data collection in randomly-deployed wireless sensor networks. *Wireless Networks* 17(2): 305-318 (2011)
66. XuFei Mao, Xiang-Yang Li, Guojun Dai: Flow admission control for multi-channel multi-radio wireless networks. *Wireless Networks* 17(3): 779-796 (2011)
65. Shaojie Tang, Xiang-Yang Li, XuFei Mao, Cheng Wang: Impact of deployment size on the asymptotic capacity for wireless ad hoc networks under Gaussian channel model. *Wireless Networks* 17(4): 817-832 (2011) 2010
64. Yu Wang, Xiang-Yang Li: Guest Editorial. *Ad Hoc & Sensor Wireless Networks* 10(1): 1-3 (2010)
63. Cheng Wang, Changjun Jiang, Xiang-Yang Li, JiuJun Cheng: Improved asymptotic multicast throughput for random extended networks. *Computer Communications* 33(18): 2195-2202 (2010)
62. Yunhao Liu, Guomo Zhou, Jizhong Zhao, Guojun Dai, Xiang-Yang Li, Ming Gu, Huadong Ma, Lufeng Mo, Yuan He, Jiliang Wang: Long-term large-scale sensing in the forest: recent advances and future directions of GreenOrbs. *Frontiers of Computer Science in China* 4(3): 334-338 (2010)
61. Sanjiv Kapoor, Xiang-Yang Li: Proximity Structures for Geometric Graphs. *Int. J. Comput. Geometry Appl.* 20(4): 415-429 (2010)
60. Xiang-Yang Li, Zheng Sun, Weizhao Wang, Wei Lou: Cost sharing and strategyproof mechanisms for set cover games. *J. Comb. Optim.* 20(3): 259-284 (2010)
59. Ming Xia, Yabo Dong, Wenyuan Xu, Dongming Lu, Xiang-Yang Li: Multi-mode user-centric design of wireless sensor networks for long-term monitoring. *Mobile Computing and Communications Review* 14(1): 25-27 (2010)
58. Cheng Wang, Xiang-Yang Li, Shaojie Tang, Changjun Jiang, Yunhao Liu: Capacity and delay in mobile ad hoc networks under Gaussian channel model. *Mobile Computing and Communications Review* 14(3): 22-24 (2010)
57. Ping Xu, ShiGuang Wang, Xiang-Yang Li: SALSA: Strategyproof Online Spectrum Admissions for Wireless Networks. *IEEE Trans. Computers* 59(12): 1691-1702 (2010)

56. Xiang-Yang Li, Zheng Sun, Weizhao Wang, Xiaowen Chu, Shaojie Tang, Ping Xu: Mechanism design for set cover games with selfish element agents. *Theor. Comput. Sci.* 411(1): 174-187 (2010)
55. Deke Guo, Yunhao Liu, Xiang-Yang Li, Panlong Yang: False Negative Problem of Counting Bloom Filter. *IEEE Trans. Knowl. Data Eng.* 22(5): 651-664 (2010)
54. Yanwei Wu, Shaojie Tang, Ping Xu, Xiang-Yang Li: Dealing with Selfishness and Moral Hazard in Noncooperative Wireless Networks. *IEEE Trans. Mob. Comput.* 9(3): 420-434 (2010)
53. Xiang-Yang Li, Yunhao Liu, Shi Li, Shaojie Tang: Multicast Capacity of Wireless Ad Hoc Networks Under Gaussian Channel Model. *IEEE/ACM Trans. Netw.* 18(4): 1145-1157 (2010)
52. Yanwei Wu, Xiang-Yang Li, Yunhao Liu, Wei Lou: Energy-Efficient Wake-Up Scheduling for Data Collection and Aggregation. *IEEE Trans. Parallel Distrib. Syst.* 21(2): 275-287 (2010)
51. Cheng Wang, Changjun Jiang, Xiang-Yang Li, Yunhao Liu: Multicast throughput for large scale cognitive networks. *Wireless Networks* 16(7): 1945-1960 (2010) 2009
50. Wen-Zhan Song, Yu Wang, Chao Ren, Changhua Wu, Xiang-Yang Li: Multi-hop scatternet formation and routing for large scale Bluetooth networks. *IJAHUC* 4(5): 251-268 (2009)
49. Chungui Liu, Yantai Shu, Lianfang Zhang, Zenghua Zhao, Xiang-Yang Li: A multi-layer experimental study of multimedia and QoS communication in wireless mesh networks. *Pervasive and Mobile Computing* 5(1): 19-36 (2009)
48. Yanli Cai, Wei Lou, Minglu Li, Xiang-Yang Li: Energy Efficient Target-Oriented Scheduling in Directional Sensor Networks. *IEEE Trans. Computers* 58(9): 1259-1274 (2009)
47. Xiang-Yang Li, Ashraf Nusairat, Yanwei Wu, Yong Qi, Jizhong Zhao, Xiaowen Chu, Yunhao Liu: Joint Throughput Optimization for Wireless Mesh Networks. *IEEE Trans. Mob. Comput.* 8(7): 895-909 (2009)
46. Xiang-Yang Li: Multicast capacity of wireless ad hoc networks. *IEEE/ACM Trans. Netw.* 17(3): 950-961 (2009)
45. Xiang-Yang Li, Yu Wang, Haiming Chen, Xiaowen Chu, Yanwei Wu, Yong Qi: Reliable and Energy-Efficient Routing for Static Wireless Ad Hoc Networks with Unreliable Links. *IEEE Trans. Parallel Distrib. Syst.* 20(10): 1408-1421 (2009)
44. Wen-Zhan Song, Weizhao Wang, Kousha Moaveninejad, Xiang-Yang Li: Lifetime-maximized cluster association in two-tiered wireless sensor networks. *Wireless Communications and Mobile Computing* 9(3): 325-334 (2009) 2008
43. Xiang-Yang Li, Peng-Jun Wan, Wen-Zhan Song, Yanwei Wu, Jizhong Zhao: Efficient Throughput for Wireless Mesh Networks by CDMA/OVSF Code Assignment. *Ad Hoc & Sensor Wireless Networks* 5(3-4): 265-291 (2008)
42. Weizhao Wang, Xiang-Yang Li, Yu Wang, Zheng Sun: Designing Multicast Protocols for Non-Cooperative Networks. *IEEE Journal on Selected Areas in Communications* 26(7): 1238-1249 (2008)
41. Fan Li, Yu Wang, Xiang-Yang Li, Ashraf Nusairat, Yanwei Wu: Gateway Placement for Throughput Optimization in Wireless Mesh Networks. *MONET* 13(1-2): 198-211 (2008)
40. Yu Wang, Xiang-Yang Li, Qian Zhang: Efficient Algorithms for p-Self-Protection Problem in Static Wireless Sensor Networks. *IEEE Trans. Parallel Distrib. Syst.* 19(10): 1426-1438 (2008)
39. Yu Wang, Weizhao Wang, Xiang-Yang Li, Wen-Zhan Song: Interference-Aware Joint Routing and TDMA Link Scheduling for Static Wireless Networks. *IEEE Trans. Parallel Distrib. Syst.* 19(12): 1709-1726 (2008) 2007

38. Peng-Jun Wan, Xiang-Yang Li, Ophir Frieder: OVFS-CDMA Code Assignment in Wireless Ad Hoc Networks. *Algorithmica* 49(4): 264-285 (2007)
37. Yu Wang, Xiang-Yang Li: Efficient Delaunay-based localized routing for wireless sensor networks. *Int. J. Communication Systems* 20(7): 767-789 (2007)
36. Levente Buttyán, Jean-Pierre Hubaux, Li Li, Xiang-Yang Li, Tim Roughgarden, Alberto Leon-Garcia: Guest Editorial Non-Cooperative Behavior in Networking. *IEEE Journal on Selected Areas in Communications* 25(6): 1065-1068 (2007)
35. Ming-Yang Kao, Xiang-Yang Li, Weizhao Wang: Average case analysis for tree labelling schemes. *Theor. Comput. Sci.* 378(3): 271-291 (2007) 2006
34. Xiang-Yang Li, Kwok-wing Chau, Chuntian Cheng, Y. S. Li: A Web-based flood forecasting system for Shuangpai region. *Advances in Engineering Software* 37(3): 146-158 (2006)
33. Yu Wang, Xiang-Yang Li: Minimum power assignment in wireless ad hoc networks with spanner property. *J. Comb. Optim.* 11(1): 99-112 (2006)
32. Xiang-Yang Li, Yu Wang: Simple approximation algorithms and PTASs for various problems in wireless ad hoc networks. *J. Parallel Distrib. Comput.* 66(4): 515-530 (2006)
31. Weizhao Wang, Xiang-Yang Li, Zheng Sun: Design differentiated service multicast with selfish agents. *IEEE Journal on Selected Areas in Communications* 24(5): 1061-1073 (2006)
30. Yu Wang, Xiang-Yang Li: Localized Construction of Bounded Degree and Planar Spanner for Wireless Ad Hoc Networks. *MONET* 11(2): 161-175 (2006)
29. Chih-Wei Yi, Peng-Jun Wan, Xiang-Yang Li, Ophir Frieder: Asymptotic distribution of the number of isolated nodes in wireless ad hoc networks with Bernoulli nodes. *IEEE Transactions on Communications* 54(3): 510-517 (2006)
28. Weizhao Wang, Xiang-Yang Li: Low-Cost Routing in Selfish and Rational Wireless Ad Hoc Networks. *IEEE Trans. Mob. Comput.* 5(5): 596-607 (2006)
27. Xiang-Yang Li, Wen-Zhan Song, Yu Wang: Localized topology control for heterogeneous wireless sensor networks. *TOSN* 2(1): 129-153 (2006)
26. Wen-Zhan Song, Xiang-Yang Li, Ophir Frieder, Weizhao Wang: Localized Topology Control for Unicast and Broadcast in Wireless Ad Hoc Networks. *IEEE Trans. Parallel Distrib. Syst.* 17(4): 321-334 (2006)
25. Yu Wang, Weizhao Wang, Xiang-Yang Li: Efficient Distributed Low-Cost Backbone Formation for Wireless Networks. *IEEE Trans. Parallel Distrib. Syst.* 17(7): 681-693 (2006) 2005
24. Kousha Moaveninejad, Wen-Zhan Song, Xiang-Yang Li: Robust position-based routing for wireless ad hoc networks. *Ad Hoc Networks* 3(5): 546-559 (2005)
23. Kousha Moaveninejad, Xiang-Yang Li: Low-Interference Topology Control for Wireless Ad Hoc Networks. *Ad Hoc & Sensor Wireless Networks* 1(1-2) (2005)
22. Wen-Zhan Song, Xiang-Yang Li, Yu Wang, Weizhao Wang: dBBlue: low diameter and self-routing Bluetooth scatternet. *J. Parallel Distrib. Comput.* 65(2): 178-190 (2005)
21. Xiang-Yang Li, Kousha Moaveninejad, Ophir Frieder: Regional Gossip Routing for Wireless Ad Hoc Networks. *MONET* 10(1-2): 61-77 (2005)
20. Wen-Zhan Song, Yu Wang, Xiang-Yang Li, Ophir Frieder: Localized Algorithms for Energy Efficient Topology in Wireless Ad Hoc Networks. *MONET* 10(6): 911-923 (2005)

19. Xiang-Yang Li, Ophir Frieder, Xiaohua Jia, Yantai Shu: MONET Special Issue on Non-Cooperative Wireless Networking and Computing. *MONET* 10(6): 927-928 (2005)
18. Xiang-Yang Li, Wen-Zhan Song, Yu Wang: Efficient Topology Control for Ad-Hoc Wireless Networks with Non-Uniform Transmission Ranges. *Wireless Networks* 11(3): 255-264 (2005)
17. Peng-Jun Wan, Gruia Calinescu, Xiang-Yang Li, Ophir Frieder: Erratum: Minimum-Energy Broadcast in Static Ad Hoc Wireless Networks. *Wireless Networks* 11(4): 531-533 (2005)
16. Xiang-Yang Li: Localized Construction of Low Weighted Structure and Its Applications in Wireless Ad Hoc Networks. *Wireless Networks* 11(6): 697-708 (2005) 2004
15. Xiang-Yang Li, Yu Wang: Efficient construction of low weighted bounded degree planar spanner. *Int. J. Comput. Geometry Appl.* 14(1-2): 69-84 (2004)
14. Xiang-Yang Li, Ivan Stojmenovic, Yu Wang: Partial Delaunay Triangulation and Degree Limited Localized Bluetooth Scatternet Formation. *IEEE Trans. Parallel Distrib. Syst.* 15(4): 350-361 (2004)
13. Xiang-Yang Li, Yu Wang, Wen-Zhan Song: Applications of k-Local MST for Topology Control and Broadcasting in Wireless Ad Hoc Networks. *IEEE Trans. Parallel Distrib. Syst.* 15(12): 1057-1069 (2004)
12. Xiang-Yang Li, Peng-Jun Wan, Yu Wang, Chih-Wei Yi: Fault tolerant deployment and topology control in wireless ad hoc networks. *Wireless Communications and Mobile Computing* 4(1): 109-125 (2004) 2003
11. Yu Wang, Xiang-Yang Li, Ophir Frieder: Distributed Spanners with Bounded Degree for Wireless Ad Hoc Networks. *Int. J. Found. Comput. Sci.* 14(2): 183-200 (2003)
10. Xiang-Yang Li, Peng-Jun Wan, Ophir Frieder: Coverage in Wireless Ad Hoc Sensor Networks. *IEEE Trans. Computers* 52(6): 753-763 (2003)
9. Xiang-Yang Li: Generating well-shaped d-dimensional Delaunay Meshes. *Theor. Comput. Sci.* 296(1): 145-165 (2003)
8. Khaled M. Alzoubi, Xiang-Yang Li, Yu Wang, Peng-Jun Wan, Ophir Frieder: Geometric Spanners for Wireless Ad Hoc Networks. *IEEE Trans. Parallel Distrib. Syst.* 14(4): 408-421 (2003)
7. Xiang-Yang Li, Gruia Calinescu, Peng-Jun Wan, Yu Wang: Localized Delaunay Triangulation with Application in Ad Hoc Wireless Networks. *IEEE Trans. Parallel Distrib. Syst.* 14(10): 1035-1047 (2003)
6. Xiang-Yang Li: Algorithmic, geometric and graphs issues in wireless networks. *Wireless Communications and Mobile Computing* 3(2): 119-140 (2003) 2002
5. Xiang-Yang Li, Liwu Liu, Peng-Jun Wan, Ophir Frieder: Practical traffic grooming scheme for single-hub SONET/WDM rings. *J. High Speed Networks* 11(2): 103-119 (2002)
4. Peng-Jun Wan, Gruia Calinescu, Xiang-Yang Li, Ophir Frieder: Minimum-Energy Broadcasting in Static Ad Hoc Wireless Networks. *Wireless Networks* 8(6): 607-617 (2002) 2001
3. Xiang-Yang Li, Peng-Jun Wan: Constructing minimum energy mobile wireless networks. *Mobile Computing and Communications Review* 5(4): 55-67 (2001) 1999
2. Xiang-Yang Li, Shang-Hua Teng, Alper ngr: Simultaneous Refinement and Coarsening for Adaptive Meshing. *Eng. Comput. (Lond.)* 15(3): 280-291 (1999)
1. Xiang-Yang Li, Shang-Hua Teng: Practical Human-Machine Identification over Insecure Channels. *J. Comb. Optim.* 3(4): 347-361 (1999)

## Journal Papers Accepted for Publication

13. Panlong Yang, Qingyu Li, Yubo Yan, Xiang-Yang Li, Yan Xiong; "Friend is Treasure": Exploring and Exploiting Mobile Social Contacts for Efficient Task Offloading, *IEEE Transactions on Vehicular Technology*, July 2015.
12. Xiang-Yang Li, Panlong Yang, Yubo Yan, Ping Xu; SPA: Almost Optimal Accessing of Nonstochastic Channels in Cognitive Radio Networks. *IEEE Transactions on Mobile Computing*, July 20, 2015.
11. Panlong Yang, Bowen Li, Jinlong Wang, Zhiyong Du, Xiang-Yang Li, Yunhao Liu, Yubo Yan, Yan Xiong; "Online Sequential Channel Accessing Control: A Double Exploration vs. Exploitation Problem"; *IEEE Transactions on Wireless Communications*, April, 2015.
10. Gao, Yi, and Dong, Wei, and Wu, Wenbin, and Chen, Chun, and Li, Xiang-Yang, and Bu, Jiajun; Scalpel: Scalable Preferential Link Tomography Based on Graph Trimming; *IEEE Transactions on Networking*, Feb 2015.
9. Dong Zhao, Xiang-Yang Li, HuaDong Ma, Budget Feasible Online Incentive Mechanisms for Crowdsourcing Tasks Truthfully, *IEEE/ACM Transaction on Networking*, November, 2014
8. Wenchao Huang, Yan Xiong, Xiang-Yang Li, Xinfu Wang, Hao Lin, XuFei Mao, Panlong Yang, Yunhao Liu, Swadloon: Direction Finding and Indoor Localization Using Acoustic Signal by Shaking Smartphones, *IEEE Transaction on Mobile Computing*, November, 2014.
7. Yan Sun, Xukai Wang, Hong Luo, Xiang-Yang Li, Conflict Detection Scheme based on Formal Rule Model for Smart Building Systems; *IEEE Transactions on Human-Machine Systems*. Oct, 2014.
6. Jizhong Zhao, Zhi-Ping Jiang, Xiang-Yang Li, Shaojie Tang, Jinsong Han, Wei Xi, Kun Zhao, Zhi Wang, Bo Xiao, Communicating Is Crowdsourcing: Wi-Fi Indoor Localization with CSIbased Speed Estimation, *JCST (Journal of Computer Science and Technology)*, 2014.
5. Cheng Bo, Junze Han, Xiang-Yang Li, Yu Wang and Bo Xiao, SA-MAC: Self-stabilizing Adaptive MAC Protocol for Wireless Sensor Networks, *JCST (Journal of Computer Science and Technology)*, 2014.
4. Rui Li, Kebin Liu, Xiang-Yang Li, Yuan He, Wei Xi, Zhi Wang, Jizhong Zhao, Meng Wan, Assessing Diagnosis Approaches for Wireless Sensor Networks: Concepts and Analysis, *JCST (Journal of Computer Science and Technology)*, 2014.
3. Lili Du, Lanshan Han, Xiang-Yang Li, Distributed Coordinated in-Vehicle Online Routing Using Mixed-Strategy Congestion Game, *Transportation Research Part B*, May, 2014.
2. Yue-E Sun, He Huang, Xiang-Yang Li, Hongli Xu, and Liusheng Huang, PPS: Privacy-Preserving Strategyproof Social-Efficient Spectrum Auction Mechanisms, *IEEE TPDS*, March, 2014.
1. Yin Wang, Yunhao Liu, Yuan He, Xiang-Yang Li, Dapeng Cheng, Disco: Improving Packet Delivery via Deliberate Synchronized Constructive Interference, *IEEE TPDS*, March, 2014.

## 5.5 Peer-Reviewed Conference papers

187. Yong Cui, Shihan Xiao, Xin Wang, Zhenjie Yang, Chao Zhu, Xiangyang Li, Liu Yang, Ning Ge; Diamond: Nesting the Data Center Network with Wireless Rings in 3D Space; *USENIX NSDI 2016*
186. Zhenhua Li, Weiwei Wang, Tianyin Xu, Xin Zhong, Xiang-Yang Li, Yunhao Liu, Christo Wilson, Ben Y. Zhao; Exploring Cross-Application Cellular Traffic Optimization with Baidu TrafficGuard ; *USENIX NSDI 2016*
185. Xiang-Yang Li, Chunhong Zhang, Taeho Jung, Jianwei Qian, Linlin Chen; Graph-Based Privacy-Preserving Data Publication; *IEEE INFOCOM 2016*



184. Jianwei Qian, Xiang-Yang Li, Chunhong Zhang, Linlin Chen, Junze Han; De-anonymizing Social Networks and Inferring Private Attributes Using Knowledge Graphs IEEE INFOCOM 2016.
183. Lei Yang, Qiongzhen Lin, Xiang-Yang Li, Tianci Liu, and YunHao Liu See Through Walls with COTS RFID Systems! ACM MobiCom 2015.
182. Lan Zhang, Cheng Bo, Jiahui Hou, Xiang-Yang Li, Kebin Liu, Yu Wang, YunHao Liu Kaleido: You Can Watch It But Cannot Record It ACM MobiCom 2015
181. Yifeng Zhong, Ke Xu, Xiang-Yang Li, Hui Su, and Qingyang Xiao, ESTRA: Incentivizing Storage Trading for Edge Caching in Mobile Content Delivery, IEEE GlobeCom, 2015.
180. Taeho Jung, Xiang-Yang Li, Junze Han A Framework for Optimization in Big Data: Privacy-preserving Multi-agent Greedy Algorithm International Conference on Bigdata Computing and communication (BigCom) 2015
179. Lan Zhang, Taeho Jung, Puchun Feng, Kebin Liu, Xiang-Yang Li and Yunhao Liu, PIC: Enable Large-scale Privacy Preserving Content-based Image Search on Cloud International Conferences on Parallel Processing (ICPP) 2015.
178. Yiqing Hu, Yan Xiong, Wenchao Huang, Xiang-Yang Li, Yanan Zhang, XuFei Mao, Panlong Yang, Caimei Wang: Lightitude: Indoor Positioning Using Ubiquitous Visible Lights and COTS Devices. ICDCS 2015: 732-733
177. Lan Zhang, Taeho Jung, Cihang Liu, Xuan Ding, Xiang-Yang Li, Yunhao Liu POP: Privacy-preserving Outsourced Photo Sharing and Searching for Mobile Devices IEEE ICDCS 2015
176. Qiongzhen Lin, Lei Yang, Yuxin Sun, TianCi Liu, Xiang-Yang Li, YunHao Liu, Beyond One-dollar Mouse: A Battery-free Device for 3D Human-Computer Interaction via RFID Tags; IEEE INFOCOM 2015
175. Lei Yang, Peng Pai, Fan Dang, Cheng Wang, Xiang-Yang Li, YunHao Liu, Anti-counterfeiting via Federated RFID Tags' Fingerprints and Geometric Relationships, IEEE INFOCOM 2015
174. Zenghua Zhao, Fucheng Zhang, Shaoping Guo, Xiang-Yang Li, Junze Han, RainbowRate: MIMO Rate Adaptation in 802.11n WiLD Links, IEEE IPCCC 2014 (33rd IEEE International Performance Computing and Communications Conference).
173. Cheng Bo, Lan Zhang, Taeho Jung, Junze Han, Xiang-Yang Li Continuous User Identification via Touch and Movement Behavioral Biometrics, IEEE IPCCC 2014 (33rd IEEE International Performance Computing and Communications Conference).
172. Zenghua Zhao, XuanXuan Wu, Jing Zhao, Xiang-Yang Li ZigBee vs WiFi: Understanding Issues and Measuring Performances of IEEE 802.11n and IEEE 802.15.4 Coexistence, IEEE IPCCC 2014 (33rd IEEE International Performance Computing and Communications Conference).
171. Junze Han, Xiang-Yang Li, Taeho Jung, Ju-min Zhao, Zenghua Zhao, Network Agile Preference-Based Prefetching for Mobile Devices, IEEE IPCCC, 2014 (33rd IEEE International Performance Computing and Communications Conference).
170. Junze Han, Xiang-Yang Li Pickup Game: Acquainting Neighbors Quickly and Efficiently in Crowd IEEE MASS 2014.
169. Zenghua Zhao, Xin Zhang, Xuanxuan Wu, Xiang-Yang Li; GasNet: Efficient Residential Building Gas Leak Monitoring via Opportunistic Networking IEEE MASS 2014.
168. Cheng Bo, Guobin Shen, Jie Liu, Xiang-Yang Li, YongGuang Zhang, Feng Zhao Privacy.Tag: Privacy Concern Expressed and Respected, ACM SenSys 2014.

167. Jiliang Wang, Shuo Lian, Wei Dong, YunHao Liu, Xiang-Yang Li Every Packet Counts: Fine-Grained Delay and Loss Measurement with Reordering IEEE ICNP 2014.
166. Yi Gao, Wenbin Wu, Wei Dong, Chun Chen, Xiang-Yang Li, Jiajun Bu Preferential Link Tomography: Monitor Assignment for Inferring Interesting Link Metrics IEEE ICNP 2014.
165. Sara Motahari, Taeho Jung\*, Hui Zang, Krishna Janakiraman, Xiang-Yang Li, Kevin Soo Hoo, Predicting the Influencers on Wireless Subscriber Churn IEEE WCNC 2014.
164. Yaqin Zhou, Qiuyuan Huang, Fan Li, Xiang-Yang Li, Min Liu, Zhongcheng Li, Zhiyuan Yin: Almost Optimal Channel Access in Multi-Hop Networks with Unknown Channel Variables. ICDCS 2014: 461-470
163. Wei Xi, Jizhong Zhao, Xiang-Yang Li, Kun Zhao, Shaojie Tang, Xue Liu, Zhiping Jiang: Electronic frog eye: Counting crowd using WiFi. INFOCOM 2014: 361-369
162. Wenchao Huang, Yan Xiong, Xiang-Yang Li, Hao Lin, XuFei Mao, Panlong Yang, Yunhao Liu: Shake and walk: Acoustic direction finding and fine-grained indoor localization using smartphones. INFOCOM 2014: 370-378
161. Lan Zhang, Kebin Liu, Yonghang Jiang, Xiang-Yang Li, Yunhao Liu, Panlong Yang: Montage: Combine frames with movement continuity for realtime multi-user tracking. INFOCOM 2014: 799-807
160. Dong Zhao, Xiang-Yang Li, Huadong Ma: How to crowdsource tasks truthfully without sacrificing utility: Online incentive mechanisms with budget constraint. INFOCOM 2014: 1213-1221
159. Xi Chen, Xiaopei Wu, Xiang-Yang Li, Yuan He, Yunhao Liu: Privacy-preserving high-quality map generation with participatory sensing. INFOCOM 2014: 2310-2318
158. Wei Xi, Xiang-Yang Li, Chen Qian, Jinsong Han, Shaojie Tang, Jizhong Zhao, Kun Zhao: KEEP: Fast secret key extraction protocol for D2D communication. IWQoS 2014: 350-359
157. Lan Zhang, Xiang-Yang Li, Wenchao Huang, Kebin Liu, Shuwei Zong, Xuesi Jian, Puchun Feng, Taeho Jung, Yunhao Liu: It starts with iGaze: visual attention driven networking with smart glasses. MobiCom 2014: 91-102
156. Lei Yang, Yekui Chen, Xiang-Yang Li, Chaowei Xiao, Mo Li, Yunhao Liu: Tagoram: real-time tracking of mobile RFID tags to high precision using COTS devices. MobiCom 2014: 237-248
155. XiaoHua Xu, Xiang-Yang Li, Min Song: Distributed scheduling for real-time data collection in Wireless Sensor Networks. GLOBECOM 2013: 426-431
154. Lan Zhang, Xiang-Yang Li, Yunhao Liu: Message in a Sealed Bottle: Privacy Preserving Friending in Social Networks. ICDCS 2013: 327-336
153. Yin Wang, Yuan He, Dapeng Cheng, Yunhao Liu, Xiang-Yang Li: TriggerCas: Enabling wireless consrucive collisions. INFOCOM 2013: 480-484
152. Lan Zhang, Xiang-Yang Li, Yunhao Liu, Taeho Jung: Verifiable private multi-party computation: Ranging and ranking. INFOCOM 2013: 605-609
151. Shaojie Tang, Qiuyuan Huang, Xiang-Yang Li, Dapeng Wu: Smoothing the energy consumption: Peak demand reduction in smart grid. INFOCOM 2013: 1133-1141
150. Zhiping Jiang, Jizhong Zhao, Xiang-Yang Li, Jinsong Han, Wei Xi: Rejecting the attack: Source authentication for Wi-Fi management frames using CSI Information. INFOCOM 2013: 2544-2552
149. Taeho Jung, Xiang-Yang Li, Zhiguo Wan, Meng Wan: Privacy preserving cloud data access with multi-authorities. INFOCOM 2013: 2625-2633

148. Taeho Jung, XuFei Mao, Xiang-Yang Li, Shaojie Tang, Wei Gong, Lan Zhang: Privacy-preserving data aggregation without secure channel: Multivariate polynomial evaluation. INFOCOM 2013: 2634-2642
147. Xiang-Yang Li, Taeho Jung: Search me if you can: Privacy-preserving location query service. INFOCOM 2013: 2760-2768
146. He Huang, Yu-e Sun, Xiang-Yang Li, Zhili Chen, Wei Yang, Hongli Xu: Near-optimal truthful spectrum auction mechanisms with spatial and temporal reuse in wireless networks. MobiHoc 2013: 237-240
145. Shaojie Tang, Jing Yuan, Xiang-Yang Li, Yu Wang, Cheng Wang, Xuefeng Liu: MINT: maximizing information propagation in predictable delay-tolerant network. MobiHoc 2013: 253-256
144. Chaocan Xiang, Xiang-Yang Li, Panlong Yang, Chang Tian, Qingyu Li: Feeling Sensors' Pulse: Accurate Noise Quantification in Participatory Sensing Network. MSN 2013: 212-219 2012
143. Shaojie Tang, Jing Yuan, Xiang-Yang Li: Towards Optimal Bidding Strategy for Amazon EC2 Cloud Spot Instance. IEEE CLOUD 2012: 91-98
142. Shaojie Tang, Jie Wu, Guihai Chen, Cheng Wang, Xuefeng Liu, Tao Li, Xiang-Yang Li: On minimum delay duty-cycling protocol in sustainable sensor network. ICNP 2012: 1-9
141. Jin Wang, Shaojie Tang, Baocai Yin, Xiang-Yang Li: Data gathering in wireless sensor networks through intelligent compressive sensing. INFOCOM 2012: 603-611
140. Cheng Bo, Danping Ren, Shaojie Tang, Xiang-Yang Li, XuFei Mao, Qiuyuan Huang, Lufeng Mo, Zhiping Jiang, Yongmei Sun, Yunhao Liu: Locating sensors in the forest: A case study in GreenOrbs. INFOCOM 2012: 1026-1034
139. XuFei Mao, Xin Miao, Yuan He, Xiang-Yang Li, Yunhao Liu: CitySee: Urban CO2 monitoring with sensors. INFOCOM 2012: 1611-1619
138. Yin Wang, Yuan He, XuFei Mao, Yunhao Liu, Zhiyu Huang, Xiang-Yang Li: Exploiting constructive interference for scalable flooding in wireless networks. INFOCOM 2012: 2104-2112
137. Xiang-Yang Li, Panlong Yang, Yubo Yan, Lizhao You, Shaojie Tang, Qiuyuan Huang: Almost optimal accessing of nonstochastic channels in cognitive radio networks. INFOCOM 2012: 2291-2299
136. Haitao Zhang, Shaojie Tang, Xiang-Yang Li, Huadong Ma: Tracking and identifying burglar using collaborative sensor-camera networks. INFOCOM 2012: 2596-2600
135. Yaqin Zhou, Xiang-Yang Li, Min Liu, Zhongcheng Li, Shaojie Tang, XuFei Mao, Qiuyuan Huang: Distributed link scheduling for throughput maximization under physical interference model. INFOCOM 2012: 2691-2695
134. Lan Zhang, Xiang-Yang Li, Yunhao Liu, Qiuyuan Huang, Shaojie Tang: Mechanism design for finding experts using locally constructed social referral web. INFOCOM 2012: 2896-2900
133. Bowen Li, Panlong Yang, Xiang-Yang Li, Shaojie Tang, Yunhao Liu, Qihui Wu: Almost optimal dynamically-ordered multi-channel accessing for cognitive networks. INFOCOM 2012: 3081-3085
132. Shaojie Tang, Cheng Bo, Xiang-Yang Li, Yunhao Li, XiaoHua Xu, Jing Yuan: SmartMote: Energy and VoI aware solar-powered sensor network design for environment monitoring. MASS 2012: 102-110
131. Cheng Wang, Xiang-Yang Li, Shaojie Tang, Changjun Jiang: Capacity and delay tradeoffs in mobile networks under Gaussian channel model. MASS 2012: 272-280
130. Bowen Li, Panlong Yang, Jinlong Wang, Qihui Wu, Xiang-Yang Li, Yunhao Liu: Observation vs statistics: Near optimal online channel access in cognitive radio networks. MASS 2012: 458-462

129. Zhenjiang Li, Wenwei Chen, Cheng Li, Mo Li, Xiang-Yang Li, Yunhao Liu: FLIGHT: clock calibration using fluorescent lighting. MOBICOM 2012: 329-340
128. Shaojie Tang, XuFei Mao, Taeho Jung, Junze Han, Xiang-Yang Li, Boliu Xu, Chao Ma: Closing the gap in the multicast capacity of hybrid wireless networks. MobiHoc 2012: 135-144 2011
127. Ping Xu, Sanjiv Kapoor, Xiang-Yang Li: Market Equilibria in Spectrum Trading with Multi-Regions and Multi-Channels. GLOBECOM 2011: 1-5
126. Bowen Li, Panlong Yang, Xiang-Yang Li, Jinlong Wang, Qihui Wu: Finding Optimal Action Point for Multi-Stage Spectrum Access in Cognitive Radio Networks. ICC 2011: 1-5
125. XuFei Mao, Shaojie Tang, Xiang-Yang Li: Multiple Objects Device-Free Passive Tracking Using Wireless Sensor Networks. ICC 2011: 1-5
124. Haitao Zhang, Huadong Ma, Xiang-Yang Li: Estimate Aggregation with Delay Constraints in Multihop Wireless Sensor Networks. ICCPS 2011: 184-193
123. Shaojie Tang, Xiang-Yang Li, Xingfa Shen, Jianhui Zhang, Guojun Dai, Sajal K. Das: Cool: On Coverage with Solar-Powered Sensors. ICDCS 2011: 488-496
122. Shaojie Tang, XuFei Mao, Xiang-Yang Li: Efficient and fast distributed top-k query protocol in wireless sensor networks. ICNP 2011: 99-108
121. Ping Xu, XiaoHua Xu, Shaojie Tang, Xiang-Yang Li: Truthful online spectrum allocation and auction in multi-channel wireless networks. INFOCOM 2011: 26-30
120. XuFei Mao, Shaojie Tang, XiaoHua Xu, Xiang-Yang Li, Huadong Ma: iLight: Indoor device-free passive tracking using wireless sensor networks. INFOCOM 2011: 281-285
119. Cheng Wang, Shaojie Tang, Xiang-Yang Li, Changjun Jiang: SelectCast: Scalable data aggregation scheme in wireless sensor networks. INFOCOM 2011: 296-300
118. Cheng Wang, Changjun Jiang, Xiang-Yang Li, Shaojie Tang, Panlong Yang: General capacity scaling of wireless networks. INFOCOM 2011: 712-720
117. Yunhao Liu, Yuan He, Mo Li, Jiliang Wang, Kebin Liu, Lufeng Mo, Wei Dong, Zheng Yang, Min Xi, Jizhong Zhao, Xiang-Yang Li: Does wireless sensor network scale? A measurement study on GreenOrbs. INFOCOM 2011: 873-881
116. Dezun Dong, Yunhao Liu, Xiangke Liao, Xiang-Yang Li: Fine-grained location-free planarization in wireless sensor networks. INFOCOM 2011: 1044-1052
115. Qian Wang, Ping Xu, Kui Ren, Xiang-Yang Li: Delay-bounded adaptive UFH-based anti-jamming wireless communication. INFOCOM 2011: 1413-1421
114. Cheng Wang, Changjun Jiang, Yunhao Liu, Xiang-Yang Li, Shaojie Tang, Huadong Ma: Aggregation capacity of wireless sensor networks: Extended network case. INFOCOM 2011: 1701-1709
113. Shaojie Tang, Jing Yuan, XuFei Mao, Xiang-Yang Li, Wei Chen, Guojun Dai: Relationship classification in large scale online social networks and its impact on information propagation. INFOCOM 2011: 2291-2299
112. Shaojie Tang, Cheng Wang, Xiang-Yang Li, Changjun Jiang: Reader Activation Scheduling in Multi-reader RFID Systems: A Study of General Case. IPDPS 2011: 1147-1155
111. Shaojie Tang, XuFei Mao, Xiang-Yang Li, Guojun Dai: Evaluating coverage quality through best covered pathes in wireless sensor networks. IWQoS 2011: 1-9

110. Bowen Li, Panlong Yang, Jinlong Wang, Qihui Wu, Xiang-Yang Li: Optimal Time-Frequency Diversity Exploitation for Multichannel System under Rayleigh Fading. MASS 2011: 381-390
109. Shaojie Tang, Xiang-Yang Li, Haitao Zhang, Jiankang Han, Guojun Dai, Cheng Wang, Xingfa Shen: TelosCAM: Identifying Burglar through Networked Sensor-Camera Mates with Privacy Protection. RTSS 2011: 327-336
108. Jing Yuan, Shaojie Tang, Cheng Wang, Debraj De, Xiang-Yang Li, Wen-Zhan Song, Guihai Chen: A real-time rescue system: Towards practical implementation of robotic sensor network. SECON 2011: 458-466 2010
107. Hong Luo, Jing Wang, Yan Sun, Huadong Ma, Xiang-Yang Li: Adaptive Sampling and Diversity Reception in Multi-hop Wireless Audio Sensor Networks. ICDCS 2010: 378-387
106. XiaoHua Xu, Shaojie Tang, XuFei Mao, Xiang-Yang Li: Distributed Gateway Placement for Cost Minimization in Wireless Mesh Networks. ICDCS 2010: 507-515
105. Kebin Liu, Mo Li, Yunhao Liu, Xiang-Yang Li, Minglu Li, Huadong Ma: Exploring the hidden connectivity in urban vehicular networks. ICNP 2010: 243-252
104. Li Lu, Yunhao Liu, Xiang-Yang Li: Refresh: Weak Privacy Model for RFID Systems. INFOCOM 2010: 704-712
103. Shaojie Tang, Xiang-Yang Li, Jing Yuan, Cheng Wang, Guihai Chen, Changjun Jiang: DREAM: On the reaction delay in large scale wireless networks with mobile sensors. IWQoS 2010: 1-9
102. Shaojie Tang, Jing Yuan, Xiang-Yang Li, Yunhao Liu, Guihai Chen, Ming Gu, Jizhong Zhao, Guojun Dai: DAWN: Energy efficient data aggregation in WSN with mobile sinks. IWQoS 2010: 1-9
101. Cheng Wang, Xiang-Yang Li, Shaojie Tang, Changjun Jiang: Multicast capacity scaling for cognitive networks: General extended primary network. MASS 2010: 262-271
100. Yuanfang Chen, Shaojie Tang, Xiang-Yang Li, Min Gyung Kwak, Cheng Wang, Lei Wang: SFL: Energy-Aware Spline Function Localization Scheme for Wireless Sensor Networks. MSN 2010: 116-121
99. Wei Xi, Yuan He, Yunhao Liu, Jizhong Zhao, Lufeng Mo, Zheng Yang, Jiliang Wang, Xiang-Yang Li: Locating sensors in the wild: pursuit of ranging quality. SenSys 2010: 295-308 2009
98. Xiang-Yang Li, Yajun Wang, Wangsen Feng: Multiple Round Random Ball Placement: Power of Second Chance. COCOON 2009: 439-448
97. Siyuan Chen, Yu Wang, Xiang-Yang Li, Xinghua Shi: Data Collection Capacity of Random-Deployed Wireless Sensor Networks. GLOBECOM 2009: 1-6
96. Chao Ren, XuFei Mao, Xiang-Yang Li, Ping Xu, Guojun Dai: Efficient Data Collection for Wireless Networks: Delay and Energy Tradeoffs. GLOBECOM 2009: 1-6
95. XiaoHua Xu, ShiGuang Wang, XuFei Mao, Shaojie Tang, Ping Xu, Xiang-Yang Li: Efficient Data Aggregation in Multi-Hop WSNs. GLOBECOM 2009: 1-6
94. Cheng Wang, Shaojie Tang, Xiang-Yang Li, Changjun Jiang, Yunhao Liu: Multicast Throughput of Hybrid Wireless Networks Under Gaussian Channel Model. ICDCS 2009: 111-118
93. Wei Xi, Jizhong Zhao, Xue Liu, Xiang-Yang Li, Yong Qi: EUL: An Efficient and Universal Localization Method for Wireless Sensor Network. ICDCS 2009: 433-440
92. Shaojie Tang, Jing Yuan, Xiang-Yang Li, Guihai Chen: RASPBerry: A Stable Reader Activation Scheduling Protocol in Multi-Reader RFID Systems. ICNP 2009: 304-313

91. Dezun Dong, Mo Li, Yunhao Liu, Xiang-Yang Li, Xiangke Liao: Topological Detection on Wormholes in Wireless Ad Hoc and Sensor Networks. ICNP 2009: 314-323
90. Junchao Ma, Wei Lou, Yanwei Wu, Xiang-Yang Li, Guihai Chen: Energy Efficient TDMA Sleep Scheduling in Wireless Sensor Networks. INFOCOM 2009: 630-638
89. Cheng Wang, Xiang-Yang Li, Changjun Jiang, Shaojie Tang, Yunhao Liu, Jizhong Zhao: Scaling Laws on Multicast Capacity of Large Scale Wireless Networks. INFOCOM 2009: 1863-1871
88. Zheng Yang, Yunhao Liu, Xiang-Yang Li: Beyond Trilateration: On the Localizability of Wireless Ad-Hoc Networks. INFOCOM 2009: 2392-2400
87. Sanjiv Kapoor, Xiang-Yang Li: Geodesic Spanners on Polyhedral Surfaces. ISAAC 2009: 213-223
86. Ping Xu, Xiang-Yang Li: SOFA: Strategyproof Online Frequency Allocation for Multihop Wireless Networks. ISAAC 2009: 311-320
85. Cheng Wang, Shaojie Tang, Xiang-Yang Li, Changjun Jiang: Multicast Capacity of Multihop Cognitive Networks. MASS 2009: 274-283
84. Xiang-Yang Li, XiaoHua Xu, ShiGuang Wang, Shaojie Tang, Guojun Dai, Jizhong Zhao, Yong Qi: Efficient Data Aggregation in Multi-hop Wireless Sensor Networks under Physical Interference Model. MASS 2009: 353-362
83. Shaojie Tang, Xiang-Yang Li, Cheng Wang, Ping Xu: Multicast capacity for multi-hop multi-channel multi-radio wireless networks. MSWiM 2009: 82-89
82. XuFei Mao, Xiang-Yang Li, Wen-Zhan Song, Ping Xu, Kousha Moaveninejad: Energy efficient opportunistic routing in wireless networks. MSWiM 2009: 253-260
81. Qingsong Yao, Yong Qi, Jinsong Han, Jizhong Zhao, Xiang-Yang Li, Yunhao Liu: Randomizing RFID Private Authentication. PerCom 2009: 1-10
80. Siyuan Chen, Yu Wang, Xiang-Yang Li, Xinghua Shi: Order-Optimal Data Collection in Wireless Sensor Networks: Delay and Capacity. SECON 2009: 1-9
79. Fang-Chun Kuo, Kun Tan, Xiang-Yang Li, Jiansong Zhang, Xiaoming Fu: XOR Rescue: Exploiting Network Coding in Lossy Wireless Networks. SECON 2009: 1-9
78. Xiang-Yang Li, Shaojie Tang, XuFei Mao: Capacity Bounds for Large Scale Wireless Ad Hoc Networks Under Gaussian Channel Model. SECON 2009: 1-9
77. Shaojie Tang, Xiaobing Wu, XuFei Mao, Yanwei Wu, Ping Xu, Guihai Chen, Xiang-Yang Li: Low Complexity Stable Link Scheduling for Maximizing Throughput in Wireless Networks. SECON 2009: 1-9
76. Lufeng Mo, Yuan He, Yunhao Liu, Jizhong Zhao, Shaojie Tang, Xiang-Yang Li, Guojun Dai: Canopy closure estimates with GreenOrbs: sustainable sensing in the forest. SenSys 2009: 99-112
75. Cheng Wang, Changjun Jiang, Shaojie Tang, Xiang-Yang Li, Xianfei Tang: Achievable multicast throughput for homogeneous wireless ad hoc networks. WCNC 2009: 2133-2138 2008
74. Xiang-Yang Li, Ping Xu, Shaojie Tang, Xiaowen Chu: Spectrum Bidding in Wireless Networks and Related. COCOON 2008: 558-567
73. Kazuya Okamoto, Wei Chen, Xiang-Yang Li: Ranking of Closeness Centrality for Large-Scale Social Networks. FAW 2008: 186-195
72. Deke Guo, Yunhao Liu, Xiang-Yang Li: BAKE: A Balanced Kautz Tree Structure for Peer-to-Peer Networks. INFOCOM 2008: 2450-2457

71. Wei-Fang Cheng, Mo Li, Kebin Liu, Yunhao Liu, Xiang-Yang Li, Xiangke Liao: Sweep coverage with mobile sensors. IPDPS 2008: 1-9
70. Xiang-Yang Li, Jizhong Zhao, Yanwei Wu, Shaojie Tang, XiaoHua Xu, XuFei Mao: Broadcast capacity for wireless ad hoc networks. MASS 2008: 114-123
69. Shi Li, Yunhao Liu, Xiang-Yang Li: Capacity of large scale wireless networks under Gaussian channel model. MOBICOM 2008: 140-151
68. XuFei Mao, Xiang-Yang Li, Shaojie Tang: Multicast capacity for hybrid wireless networks. MobiHoc 2008: 189-198
67. Xiang-Yang Li, Yanwei Wu, Ping Xu, Guihai Chen, Mo Li: Hidden information and actions in multi-hop wireless ad hoc networks. MobiHoc 2008: 283-292 2007
66. Weizhao Wang, Wen-Zhan Song, Xiang-Yang Li, Kousha Moaveninejad: Optimal Cluster Association in Two-Tiered Wireless Sensor Networks. DCOSS 2007: 110-123
65. Yu Wang, Xiang-Yang Li, Qian Zhang: Efficient Self Protection Algorithms for Static Wireless Sensor Networks. GLOBECOM 2007: 931-935
64. Yi Hu, Xiang-Yang Li, Haiming Chen, Xiaohua Jia: Distributed Call Admission Protocol for Multi-Channel Multi-Radio Wireless Networks. GLOBECOM 2007: 2509-2513
63. Xiaowen Chu, Tianming Bu, Xiang-Yang Li: A Study of Lightpath Rerouting Schemes in Wavelength-Routed WDM Networks. ICC 2007: 2400-2405
62. Fan Li, Yu Wang, Xiang-Yang Li: Gateway Placement for Throughput Optimization in Wireless Mesh Networks. ICC 2007: 4955-4960
61. Chien-Chung Huang, Ming-Yang Kao, Xiang-Yang Li, Weizhao Wang: Using Nash Implementation to Achieve Better Frugality Ratios. ISAAC 2007: 377-389
60. Xiang-Yang Li, Shaojie Tang, Ophir Frieder: Multicast capacity for large scale wireless ad hoc networks. MOBICOM 2007: 266-277 2006
59. Sabyasachi Roy, Y. Charlie Hu, Dimitrios Peroulis, Xiang-Yang Li: Minimum-Energy Broadcast Using Practical Directional Antennas in All-Wireless Networks. INFOCOM 2006
58. Kiyoko F. Aoki-Kinoshita, Minoru Kanehisa, Ming-Yang Kao, Xiang-Yang Li, Weizhao Wang: A 6-Approximation Algorithm for Computing Smallest Common AoN-Supertree with Application to the Reconstruction of Glycan Trees. ISAAC 2006: 100-110
57. Xiang-Yang Li, Haiming Chen, Yantai Shu, Xiaowen Chu, Yanwei Wu: Energy Efficient Routing With Unreliable Links in Wireless Networks. MASS 2006: 160-169
56. Weizhao Wang, Xiang-Yang Li, Ophir Frieder, Yu Wang, Wen-Zhan Song: Efficient interference-aware TDMA link scheduling for static wireless networks. MOBICOM 2006: 262-273
55. Weizhao Wang, Xiang-Yang Li, Stephan Eidenbenz, Yu Wang: OURS: optimal unicast routing systems in non-cooperative wireless networks. MOBICOM 2006: 402-413
54. Chungui Liu, Yantai Shu, Lianfang Zhang, Zenghua Zhao, Xiang-Yang Li: A Multi-layer Approach to Support Multimedia Communication in Mesh Networks with QoS. MSN 2006: 392-403
53. Yu Wang, Wen-Zhan Song, Weizhao Wang, Xiang-Yang Li, Teresa A. Dahlberg: LEARN: Localized Energy Aware Restricted Neighborhood Routing for Ad Hoc Networks. SECON 2006: 508-517 2005
52. Weizhao Wang, Xiang-Yang Li: Towards Truthful Mechanisms for Binary Demand Games: A General Framework. AAI 2005: 1632-1635

51. Weizhao Wang, Xiang-Yang Li, Zheng Sun: Design DiffServ Multicast with Selfish Agents. AAIM 2005: 214-223
50. Zheng Sun, Xiang-Yang Li, Weizhao Wang, Xiaowen Chu: Mechanism Design for Set Cover Games When Elements Are Agents. AAIM 2005: 360-369
49. Xiang-Yang Li, Peng-Jun Wan: Theoretically Good Distributed CDMA/OVSF Code Assignment for Wireless Ad Hoc Networks. COCOON 2005: 126-135
48. Weizhao Wang, Xiang-Yang Li, Zheng Sun: Share the Multicast Payment Fairly. COCOON 2005: 210-219
47. Weizhao Wang, Xiang-Yang Li, Zheng Sun, Yu Wang: Design multicast protocols for non-cooperative networks. INFOCOM 2005: 1596-1607
46. Ming-Yang Kao, Xiang-Yang Li, Weizhao Wang: Average Case Analysis for Tree Labelling Schemes. ISAAC 2005: 136-145
45. Xiang-Yang Li, Wen-Zhan Song, Weizhao Wang: A unified energy-efficient topology for unicast and broadcast. MOBICOM 2005: 1-15
44. Yu Wang, Weizhao Wang, Xiang-Yang Li: Distributed low-cost backbone formation for wireless ad hoc networks. MobiHoc 2005: 2-13
43. Zheng Sun, Philip S. Yu, Xiang-Yang Li: Iterative Mining for Rules with Constrained Antecedents. SDM 2005: 551-555
42. Xiang-Yang Li, Kousha Moaveninejad, Wen-Zhan Song, Weizhao Wang: Interference-aware topology control for wireless sensor networks. SECON 2005: 263-274
41. Ming-Yang Kao, Xiang-Yang Li, Weizhao Wang: Towards truthful mechanisms for binary demand games: a general framework. EC 2005: 213-222
40. Xiang-Yang Li, Zheng Sun, Weizhao Wang: Cost Sharing and Strategyproof Mechanisms for Set Cover Games. STACS 2005: 218-230
39. Weizhao Wang, Xiang-Yang Li, Xiaowen Chu: Nash Equilibria and Dominant Strategies in Routing. WINE 2005: 979-988 2004
38. Wen-Zhan Song, Xiang-Yang Li: CBRBrain: Provide Content Based Routing Service Over Internet Backbone. ICCCN 2004: 101-106
37. Weizhao Wang, Xiang-Yang Li, Ophir Frieder: k-Anycast Game in Selfish Networks. ICCCN 2004: 289-294
36. Xiang-Yang Li, Yu Wang, Peng-Jun Wan, Ophir Frieder: Localized Low Weight Graph and Its Applications in Wireless Ad Hoc Networks. INFOCOM 2004
35. Weizhao Wang, Xiang-Yang Li: Truthful Low-Cost Unicast in Selfish Wireless Networks. IPDPS 2004
34. Yu Wang, Ivan Stojmenovic, Xiang-Yang Li: Bluetooth scatternet formation for single-hop ad hoc networks based on virtual positions. ISCC 2004: 170-175
33. Weizhao Wang, Xiang-Yang Li, Yu Wang: Truthful multicast routing in selfish wireless networks. MOBICOM 2004: 245-259
32. Wen-Zhan Song, Yu Wang, Xiang-Yang Li: Localized algorithms for energy efficient topology in wireless ad hoc networks. MobiHoc 2004: 98-108 2003
31. Weizhao Wang, Xiang-Yang Li, Yu Wang, Wen-Zhan Song: The spanning ratios of beta-Skeleton. CCCG 2003: 35-38



30. Xiang-Yang Li: Approximate MST for UDG Locally. COCOON 2003: 364-373
29. Xiang-Yang Li, Yu Wang: Efficient Construction of Low Weight Bounded Degree Planar Spanner. COCOON 2003: 374-384
28. Xiang-Yang Li, Yu Wang, Ophir Frieder: Localized routing for wireless ad hoc networks. ICC 2003: 443-447
27. Xiang-Yang Li, Yu Wang, Peng-Jun Wan, Chih-Wei Yi, Ophir Frieder: Robust wireless ad hoc networks. ICC 2003: 453-457
26. Xiang-Yang Li, Kousha Moaveninejad, Ophir Frieder: Regional Gossip Routing for Wireless Ad Hoc Networks. LCN 2003: 274-275
25. Xiang-Yang Li, Peng-Jun Wan, Yu Wang, Chih-Wei Yi: Fault tolerant deployment and topology control in wireless networks. MobiHoc 2003: 117-128
24. Sanjiv Kapoor, Xiang-Yang Li: Proximity Structures for Geometric Graphs. WADS 2003: 365-376
23. Chih-Wei Yi, Peng-Jun Wan, Xiang-Yang Li, Ophir Frieder: Asymptotic distribution of the number of isolated nodes in wireless ad hoc networks with Bernoulli nodes. WCNC 2003: 1585-1590 2002
22. Xiang-Yang Li, Yu Wang: Simple heuristics and PTASs for intersection graphs in wireless ad hoc networks. DIAL-M 2002: 62-71
21. Xiang-Yang Li, Peng-Jun Wan, Yu Wang, Ophir Frieder: Sparse Power Efficient Topology for Wireless Networks. HICSS 2002: 296
20. Xiang-Yang Li, Peng-Jun Wan, Ophir Frieder: Coverage in wireless ad-hoc sensor networks. ICC 2002: 3174-3178
19. Xiang-Yang Li, Yu Wang, Ophir Frieder: Efficient hybrid key agreement protocol for wireless ad hoc networks. ICCCN 2002: 404-409
18. Yu Wang, Xiang-Yang Li: Geometric Spanners for Wireless Ad Hoc Networks. ICDCS 2002: 171-178
17. Xiang-Yang Li, Gruia Calinescu, Peng-Jun Wan: Distributed Construction of Planar Spanner and Routing for Ad Hoc Wireless Networks. INFOCOM 2002
16. Yu Wang, Xiang-Yang Li: Distributed Spanner with Bounded Degree for Wireless Ad Hoc Networks. IPDPS 2002 2001
15. Xiang-Yang Li: Generating Well-Shaped d-dimensional Delaunay Meshes. COCOON 2001: 91-100
14. Xiang-Yang Li, Yu Wang: How Good Is Sink Insertion? COCOON 2001: 181-190
13. Xiang-Yang Li, Peng-Jun Wan, Yu Wang: Power efficient and sparse spanner for wireless ad hoc networks. ICCCN 2001: 564-567
12. Peng-Jun Wan, Gruia Calinescu, Xiang-Yang Li, Ophir Frieder: Minimum-Energy Broadcast Routing in Static Ad Hoc Wireless Networks. INFOCOM 2001: 1162-1171
11. Xiang-Yang Li, Shang-Hua Teng: Generating well-shaped Delaunay meshed in 3D. SODA 2001: 28-37 2000
10. Xiang-Yang Li, Peng-Jun Wan, Liwu Liu: Select Line Speeds for Single-Hub SONET/WDM Ring Networks. ICC (1) 2000: 495-499
9. Xiang-Yang Li: Spacing Control and Sliver-free Delaunay Mesh. IMR 2000: 295-306

8. Liwu Liu, Xiang-Yang Li, Peng-Jun Wan, Ophir Frieder: Wavelength Assignment in WDM Rings to Minimize SONET ADMs. INFOCOM 2000: 1020-1025
7. Xiang-Yang Li, Liwu Liu, Peng-Jun Wan, Ophir Frieder: Practical Traffic Grooming Scheme for Single-Hub SONET/WDM Rings. LCN 2000: 556-564
6. Herbert Edelsbrunner, Xiang-Yang Li, Gary L. Miller, Andreas Stathopoulos, Dafna Talmor, Shang-Hua Teng, Alper Ungor, Noel Walkington: Smoothing and cleaning up slivers. STOC 2000: 273-277 1999
5. Xiang-Yang Li, Shang-Hua Teng, Alper Ungor: Biting Spheres in 3D. IMR 1999: 85-95
4. Xiang-Yang Li, Shang-Hua Teng, Alper Ungor: Biting Ellipses to Generate Anisotropic Mesh. IMR 1999: 97-108
3. Xiangmin Jiao, Xiang-Yang Li, Xiaosong Ma: SIFFEA: Scalable Integrated Framework for Finite Element Analysis. ISCOPE 1999: 84-95 1998
2. Xiang-Yang Li, Shang-Hua Teng, Alper Ungor: Simultaneous Refinement and Coarsening: Adaptive Meshing with Moving Boundaries. IMR 1998: 201-210
1. Xiang-Yang Li, Shang-Hua Teng: Dynamic Load Balancing for Parallel Adaptive Mesh Refinement. IRREGULAR 1998: 144-155

## 5.6 Reviewed Conference Demo Papers

3. Lei Yang, Yekui Chen, Chen Chen, Xiang-Yang Li, Xuan Ding, Yi Guo, Yunhao Liu: Demo: high-precision RFID tracking using COTS devies. MobiCom 2014: 325-328
2. Lan Zhang, Xiang-Yang Li, Wenchao Huang, Kebin Liu, Shuwei Zong, Xuesi Jian, Puchun Feng, Taeho Jung, Yunhao Liu: Demo: visual attention driven networking with smart glasses. MobiCom 2014: 329-332
1. Zhenjiang Li, Cheng Li, Wenwei Chen, Jingyao Dai, Mo Li, Xiang-Yang Li, Yunhao Liu: Clock calibration using fluorescent lighting. MOBICOM 2012: 463-466

## 5.7 Reviewed Conference Poster Papers

7. Tao Li, Wei Xi, Shaojie Tang, Jinsong Han, Jizhong Zhao, Xiang-Yang Li, Zhi Wang, Zhiping Jiang: Poster: locating RFID tags by rotation. MobiCom 2014: 379-382 2013
6. Cheng Bo, Lan Zhang, Xiang-Yang Li, Qiuyuan Huang, Yu Wang: SilentSense: silent user identification via touch and movement behavioral biometrics. MOBICOM 2013: 187-190
5. Cheng Bo, Xiang-Yang Li, Taeho Jung, XuFei Mao, Yue Tao, Lan Yao: SmartLoc: push the limit of the inertial sensor based metropolitan localization using smartphone. MOBICOM 2013: 195-198
4. Cheng Bo, Xuesi Jian, Xiang-Yang Li, XuFei Mao, Yu Wang, Fan Li: You're driving and texting: detecting drivers using personal smart phones by leveraging inertial sensors. MOBICOM 2013: 199-202
3. XuFei Mao, Xiang-Yang Li, Xingfa Shen, Fang Chen: iLight: device-free passive tracking by wireless sensor networks. SenSys 2009: 315-316
2. Xingfa Shen, Cheng Bo, Jianhui Zhang, Guojun Dai, XuFei Mao, Xiang-Yang Li: SolarMote: a low-cost solar energy supplying and monitoring system for wireless sensor networks. SenSys 2009: 413-414
1. Xiang-Yang Li, Peng-Jun Wan: Constructing minimum energy mobile wireless networks. MobiHoc 2001: 283-286

## 5.8 Peer-Reviewed Workshop Papers

10. Taeho Jung, and Xiang-Yang Li, Enabling Privacy-preserving Auctions in Big Data, BigSecurity workshop, IEEE INFOCOM 2015
9. Cheng Bo, Xiang-Yang Li, Yue Tao, Fouad Teymour, Paul Anderson, ShangPing Ren: SA-MAC: Self-Stabilizing Adaptive MAC Protocol for Wireless Sensor Networks. ICDCS Workshops 2013: 339-344
8. Yue Tao, Xiang-Yang Li, Cheng Bo: Performance of Coexisted WiFi and ZigBee Networks. ICDCS Workshops 2013: 315-320
7. Ping Xu, Xiang-Yang Li: Online market driven spectrum scheduling and auction. MOBICOM-CoRoNet 2009: 49-54
6. Shaojie Tang, XuFei Mao, Xiang-Yang Li: Optimal k-support Coverage Paths in Wireless Sensor Networks. PerCom Workshops 2009: 1-6
5. Peng-Jun Wan, Xiang-Yang Li, Ophir Frieder: OVSF-CDMA code assignment in wireless ad hoc networks. DIALM-POMC 2004: 92-101
4. Kousha Moaveninejad, Wen-Zhan Song, Xiang-Yang Li: Position-Based Routing for Heterogeneous Wireless Ad Hoc Networks. ICDCS Workshops 2004: 710-715
3. Wen-Zhan Song, Xiang-Yang Li, Yu Wang, Weizhao Wang: dBBlue: low diameter and self-routing bluetooth scatternet. DIALM-POMC 2003: 22-31
2. Yu Wang, Xiang-Yang Li: Localized construction of bounded degree and planar spanner for wireless ad hoc networks. DIALM-POMC 2003: 59-68
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
4. SMARTLOC: SENSING LANDMARKS SILENTLY FOR SMARTPHONE BASED METROPOLITAN 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

专利名称	类型	申请人	发明人	专利号
一种基于无线mesh网络的视频监控系統	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	无锡微安科技有限公司	刘云浩; 何源; 李向阳	201110222322.7
无线网络接入点的选择系統以及选择方法	发明专利	无锡微安科技有限公司	郑霄龙, 王继伟, 刘云浩, 李向阳, 吴峻培	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、装置及系統	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; 液澄, 刘云浩; 毛续飞,	201310530966.0
一种生成地图的方法及系統	发明专利	无锡赛思汇智科技有限公司	李向阳, 陈磊; 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	液澄 张兰 李向阳	201310520123.3
一种基于行为特征的用户识别方法及系統	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統	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統及方法	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	无锡酷凯科技有限公司	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	无锡酷凯科技有限公司	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
无线传感器系統及数据收集方法	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統	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, 苑靖	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	液澄、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

## 7 Teaching and Advising

### 7.1 Courses Designed, or Taught

Since I joined USTC, I have designed and introduced the following new courses:

#### 1: Economic and Privacy Issues in Big Data:

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.
8. **Cs595: Economic and Privacy Issues in Big Data:**

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, Chengdu (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 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.

## 8.2 Service to the Department and University, at USTC

1. Dean of School of Computer Science and Technology (2016.1-present)

## 8.3 Service to the Department and University, at IIT

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.

## 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, Beijing 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 February 25, 2016 by Xiang-Yang Li.