

# Curriculum Vitae – Xing Xie

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## Personal

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## Education

Ph.D., 1996-2001, Dept. Computer Science, University of Science and Technology of China, Hefei, China

Dissertation: *“Optimization strategies of randomized algorithms for NP-Hard problems”*

B.S., 1992-1996, Special Class for Gifted Youth, University of Science and Technology of China, Hefei, China

## Research Interests

Spatial Data Mining; Location based Services; Mobile and Ubiquitous Computing; Information Retrieval; Human Computer Interface

## Professional Experience

Jul. 2001 – Present: Associate Researcher, Researcher, Lead Researcher, Microsoft Research Asia, Beijing, China

Conducted research on spatial data mining, location based services, mobile and ubiquitous computing; served on the organizing and program committees of many international conferences; published over 120 journal and conference papers; filed over 50 patent

applications; supervised over 80 visiting students from various universities; won the Microsoft Gold Star Award in 2007 and 2010.

Jan. 2010 – Present: Guest Professor, State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing, Wuhan University, Wuhan, China

Collaborate in common research areas and give lectures.

Aug. 2008 – Present: Guest Ph.D. Advisor, University of Science and Technology of China, Hefei, China

Supervise Ph.D. candidates in department of computer science.

Jan. 2001 – Mar. 2001: Intern, Microsoft Research Asia, Beijing, China

Conducted research on content filtering for Web search results.

Feb. 1998 – Aug. 1998: Intern, Institute of Software, Chinese Academy of Sciences, Beijing, China

Conducted research on analyzing and optimizing a linear algebra library on parallel computers; implemented an automatic parallelization tool for linear algebra libraries.

Sep. 1995 – Jun. 2001: Research Assistant, National High Performance Computing Center (NHPCC), Hefei, China

Conducted research on parallel computing, combinatorial optimization and randomized algorithms; projects participated in NHPCC include: National 973 Fundamental Research Program “Efficient and practical algorithms for NP-hard problems and its application”; National 863 High-Tech Program “New computing model and scalable parallel algorithm based on massive parallel processors”; Ph.D. Foundation of Department of Education “Realistic computing model and scalability”; and Several National High Performance Computing Foundation Projects.

## **Publications**

### **A. Journal/Magazine Papers**

1. Jing Yuan, Yu Zheng, Xing Xie, Guangzhong Sun, T-Drive: Enhancing Driving Directions with Taxi Drivers' Intelligence, IEEE Transactions on Knowledge and Data Engineering, accepted
2. Wenchen Zheng, Yu Zheng, Xing Xie, Qiang Yang, Towards Mobile Intelligence: Learning from GPS History Data for Collaborative Recommendation, Artificial Intelligence Journal, accepted

3. Hyoseok Yoon, Yu Zheng, Xing Xie, Woontack Woo, Social Itinerary Recommendation from User-generated Digital Trails, *Personal and Ubiquitous Computing*, accepted
4. Rongrong Ji, Hongxun Yao, Xing Xie, Qi Tian, Vocabulary Hierarchy Optimization and Transfer for Scalable Image Search. *IEEE Multimedia*, Vol. 18, No. 3, Mar. 2011, p66-77
5. Yu Zheng, Lizhu Zhang, Zhengxin Ma, Xing Xie, Wei-Ying Ma, Recommending Friends and Locations Based on Individual Location History, *ACM Transactions on the Web*, Vol. 5, No. 1, Feb. 2011
6. Yu Zheng, Xing Xie, Learning Travel Recommendations From User-Generated GPS Traces, *ACM Transactions on Intelligent Systems and Technology*, Vol. 2, No. 1, Jan. 2011
7. Xing Xie, Mining Intelligence from the Physical World, *Communications of the CCF (in Chinese)*, Vol. 6, No. 11, Nov. 2010, p31-37
8. Jihwan Song, Xing Xie, Yoon-Joon Lee, Ji-Rong Wen, Estimating Mobile-Friendliness Scores of Web Pages, *IEICE Transactions on Information and Systems*, Vol.E93-D, No.11, Nov. 2010, p3124-3127
9. Xiangye Xiao, Qiong Luo, Zhisheng Li, Xing Xie, Wei-Ying Ma, A Large Scale Study on Map Search Logs, *ACM Transactions on the Web*, Vol. 4, No. 3, Jul. 2010
10. Yu Zheng, Xing Xie, Enable Smart Location-Based Services by Mining User Trajectories, *Communications of the CCF (in Chinese)*, Vol. 6, No. 6, Jun. 2010, p23-29
11. Yu Zheng, Xing Xie, Wei-Ying Ma, GeoLife: A Collaborative Social Networking Service among User, Location and Trajectory, *IEEE Data Engineering Bulletin*, Vol. 33, No. 2, Jun. 2010, p32-39
12. Yu Zheng, Yukun Chen, Quannan Li, Xing Xie, Wei-Ying Ma, Understanding Transportation Modes Based on GPS Data for Web Applications, *ACM Transactions on the Web*, Vol. 4, No. 1, Jan. 2010.
13. Yiqun Hu, Xiangang Cheng, Liang-Tien Chia, Xing Xie, Deepu Rajan, Ah-Hwee Tan, Coherent Phrase Model for Efficient Image Near-Duplicate Retrieval, *IEEE Transactions on Multimedia*, Vol. 11, No. 8, Dec. 2009, p1434-1445.
14. Xiangye Xiao, Qiong Luo, Dan Hong, Hongbo Fu, Xing Xie, Wei-Ying Ma, Browsing on Small Displays by Transforming Web Pages into Hierarchically Structured Subpages, *ACM Transactions on the Web*, Vol. 3, Jan. 2009.
15. Xing Xie, Yu Zheng, Understanding User Behavior Geospatially, *Communications of the CCF (in Chinese)*, Vol. 4, No. 10, Oct. 2008, p43-49
16. Xing Xie, Lie Lu, Menglei Jia, Hua Li, Frank Seide, Wei-Ying Ma, Mobile Search with Multimodal Queries, *Proceedings of the IEEE*, Vol. 96, No. 4, Apr. 2008.
17. Zhigang Hua, Xing Xie, Hao Liu, Hanqing Lu, Wei-Ying Ma, Design and Performance Studies of an Adaptive Scheme for Serving Dynamic Web Content in Mobile

- Computing Environment, IEEE Trans. on Mobile Computing, Vol. 5, No. 12, Dec. 2006, p1650-1662.
18. Xing Xie, Hao Liu, Wei-Ying Ma, Hong-Jiang Zhang, Browsing Large Pictures under Limited Display Sizes, IEEE Transactions on Multimedia, Vol. 8, No. 4, Aug. 2006.
  19. Xing Xie, Chong Wang, Li-Qun Chen, Wei-Ying Ma, An Adaptive Web Page Layout Structure for Small Devices, ACM Multimedia Systems Journal, Springer-Verlag, Vol. 11, No. 1, 2005.
  20. Yu Chen, Xing Xie, Wei-Ying Ma, Hong-Jiang Zhang, Adapting Web Pages for Small-Screen Devices, IEEE Internet Computing, Vol.9, No.1, Jan. 2005
  21. Li-Qun Chen, Xing Xie, Xin Fan, Wei-Ying Ma, Hong-Jiang Zhang, He-Qin Zhou, A visual attention model for adapting images on small displays, ACM Multimedia Systems Journal, Springer-Verlag, Vol.9, No.4, 2003, p353-364.
  22. Chen Guoliang, Xie Xing, Xu Yun and Gu Jun, Design of Restart Strategy for Randomized Algorithms and Its Application in Solving the TSP, CHINESE JOURNAL OF COMPUTERS (in Chinese), 5(25), 2002, p514-519
  23. Xie Xing and Li Yucheng, Research on the Automatic Parallelizing Tools of LAPACK, Numerical Computing and Computer Application (in Chinese), No.2, 2001, p130-134
  24. Xie Xing, Zhou Zhi, Chen Guoliang and Gu Jun, Performance Analysis of Random Competition Strategy in Monte Carlo Algorithms, CHINESE JOURNAL OF COMPUTERS (in Chinese), 10(23), 2000, p1015-1020
  25. Xie Xing, Chen Guoliang and Wu Jigang, Model of Automatic Data Layout Optimization on Distributed Memory Computers, Journal of Computer Research and Development (in Chinese), 10(37), 2000, p1173-1178
  26. Wu Jigang, Xie Xing, Wan Yingyu and Chen Guoliang, Lower Bounds and a Nearly Fastest General Parallel Branch-and-Bound Algorithm, Journal of System Engineering and Electronics, 3(11), 2000, p65-73
  27. Xie Xing, Gu Naijie and Chen Guoliang, Performance Analysis of Matrix Multiplication on Dawning-1000, Journal of Computer Research and Development (in Chinese), 7(36), 1999, p848-852

## **B. Book Chapters**

1. Xin Fan, Mark Sanderson, Xing Xie, Multimodal Search on Mobile Devices - Exploring Innovative Query Modalities for Mobile Search, in S. Kurkovsky Eds. "Multimodality in Mobile Computing and Mobile Devices: Methods for Adaptable Usability", IGI Global, 2009.
2. Xing Xie, Wei-Ying Ma, Multimedia adaptation and browsing on small displays, in S.T. Chanson, X. Tang, J. Xu Eds. "Web Content Delivery (Web Information Systems

Engineering and Internet Technologies Book Series, Vol. 2)", Springer-Verlag, Sep. 2005.

3. Zhigang Hua, Xing Xie, Hanqing Lu, Wei-Ying Ma, A Cooperative Framework for Information Browsing in Mobile Environment, in C. Ghaoui Eds. "Encyclopedia of Human Computer Interaction", Idea Group Publishing, Aug. 2005.

### **C. Conference/Workshop Papers**

1. Kai Zheng, Yu Zheng, Xing Xie, Xiaofang Zhou, Reducing Uncertainty of Low-Sampling-Rate Trajectories, 28th IEEE International Conference on Data Engineering (ICDE 2012), Washington, DC, VA, USA, Apr. 2012
2. Defu Lian, Xing Xie. Learning Location Naming from User Check-In Histories, 19th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS 2011, acceptance rate  $37/161=23.0\%$ ), Chicago, USA, Nov. 2011
3. Favyen Bastani, Yan Huang, Xing Xie, Jason W. Powell. A Greener Transportation Mode: Flexible Routes Discovery from GPS Trajectory Data, poster, 19th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS 2011), Chicago, USA, Nov. 2011
4. Defu Lian, Xing Xie, Collaborative Activity Recognition via Check-in History, Third ACM SIGSPATIAL International Workshop on Location Based Social Networks (LBSN 2011), held in conjunction with ACM SIGSPATIAL GIS 2011, Chicago, USA, Nov. 2011
5. Yin Zhu, Yuki Arase, Xing Xie, Bayesian Nonparametric Modeling of User Activities, International Workshop on Trajectory Data Mining and Analysis (TDMA 2011), Beijing, China, Sep. 2011
6. Yu Zheng, Yanchi Liu, Jing Yuan, Xing Xie, Urban Computing with Taxicabs, 13th ACM International Conference on Ubiquitous Computing (UbiComp 2011, acceptance rate  $50/302=16.6\%$ ), Beijing, China, Sep. 2011
7. Jing Yuan, Yu Zheng, Liuhan Zhang, Xing Xie, Guangzhong Sun, Where to Find My Next Passenger?, 13th ACM International Conference on Ubiquitous Computing (UbiComp 2011, acceptance rate  $50/302=16.6\%$ ), Beijing, China, Sep. 2011
8. Jing Yuan, Yu Zheng, Xing Xie, Guangzhong Sun, Driving with Knowledge from the Physical World, 17th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2011), industrial track, San Diego, CA, USA, Aug. 2011
9. Wei Liu, Yu Zheng, Sanjay Chawla, Jing Yuan, Xing Xie, Discovering Spatio-Temporal Causal Interactions in Traffic Data Streams, poster, 17th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2011), San Diego, CA, USA, Aug. 2011
10. Lu-An Tang, Yu Zheng, Xing Xie, Jing Yuan, Xiao Yu, Jiawei Han, Retrieving k-Nearest Neighboring Trajectories by a Set of Point Locations, 12th International Symposium on Spatial and Temporal Databases (SSTD 2011), Minneapolis, MN, USA, Aug. 2011

11. Mao Ye, Rong Xiao, Wang-Chien Lee, Xing Xie, On Theme Location Discovery for Travelogue Services, 34th Annual International ACM SIGIR Conference (SIGIR 2011, acceptance rate  $108/545=19.8\%$ ), Beijing, China, Jul. 2011
12. Chaminda De Silva, Kiyoharu Aizawa, Yuki Arase, Xing Xie, Interactive Social, Spatial and Temporal Querying for Multimedia Retrieval, 9th International Workshop on Content-Based Multimedia Indexing (CBMI 2011), Madrid, Spain, Jun. 2011
13. Chaminda De Silva, Kiyoharu Aizawa, Yuki Arase, Xing Xie, Capturing, Using and Sharing a Liflog Dataset, 2nd Workshop on Information Access for Personal Media Archives (IAPMA 2011), Dublin, Ireland, Apr. 2011
14. Mao Ye, Rong Xiao, Wang-Chien Lee, Xing Xie, Location Relevance Classification for Travelogue Digests, poster, 20th International World Wide Web Conference (WWW 2011), Hyderabad, India, Mar. 2011
15. Jing Yuan, Yu Zheng, Chengyang Zhang, Wenlei Xie, Xing Xie, Guangzhong Sun, Yan Huang. T-Drive: Driving Directions Based on Taxi Trajectories, 18th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS 2010, acceptance rate  $36/172=20.9\%$ ), San Jose, USA, Nov. 2010 (**Best Paper runner-up**)
16. Teng Qin, Rong Xiao, Lei Fang, Xing Xie, Lei Zhang, An Efficient Location Extraction Algorithm by Leveraging Web Contextual Information, 18th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS 2010, acceptance rate  $36/172=20.9\%$ ), San Jose, USA, Nov. 2010
17. Yu Zheng, Xing Xie, Xixuan Feng, Shuang Peng, James Fu. Detecting Nearly Duplicated Records in Location Datasets, Industrial Track, 18th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS 2010), San Jose, USA, Nov. 2010
18. Xiangye Xiao, Yu Zheng, Qiong Luo, Xing Xie, Wei-Ying Ma. Finding Similar Users Using Category-Based Location History, poster, 18th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS 2010), San Jose, USA, Nov. 2010
19. Akiyoshi Suzuki, Mayu Iwata, Yuki Arase, Takahiro Hara, Xing Xie, Shojiro Nishio. A User Location Anonymization Method for Location Based Services in a Real Environment, poster, 18th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS 2010), San Jose, USA, Nov. 2010
20. Yuki Arase, Xing Xie, Takahiro Hara, Shojiro Nishio, Mining People's Trips from Large Scale Geo-tagged Photos, 18th ACM International Conference on Multimedia 2010 (ACM MM 2010, multimedia application track), Firenze, Italy, Oct. 2010
21. Hyoseok Yoon, Yu Zheng, Xing Xie, and Woontack Woo, Smart Itinerary Recommendation based on User-Generated GPS Trajectories, the 7th International

Conference on Ubiquitous Intelligence and Computing (UIC 2010), Xi'an, China, Oct. 2010 (**Best Paper Award**)

22. Yu Zheng, Jing Yuan, Xing Xie, Drive Smartly as a Taxi Driver, demo, the 7th International Conference on Ubiquitous Intelligence and Computing (UIC 2010), Xi'an, China, Oct. 2010
23. Yuki Arase, Fei Ren, Xing Xie, User Activity Understanding from Mobile Phone Sensors, poster, 12th ACM International Conference on Ubiquitous Computing (UbiComp 2010), Copenhagen, Denmark, Sep. 2010
24. Yu Zheng, Jing Yuan, Xing Xie, Drive Smartly as a Taxi Driver, demo, 12th ACM International Conference on Ubiquitous Computing (UbiComp 2010), Copenhagen, Denmark, Sep. 2010
25. Wenchen Zheng, Bin Cao, Yu Zheng, Xing Xie, Qiang Yang, Collaborative Filtering Meets Mobile Recommendation: A User-centered Approach, 24th AAAI Conference on Artificial Intelligence (AAAI 2010, acceptance rate 264/982=26.9%), Atlanta, Georgia, USA, Jul. 2010
26. Zaiben Chen, Heng Tao Shen, Xiaofang Zhou, Yu Zheng, Xing Xie, Searching Trajectories by Locations – An Efficiency Study, the 2010 ACM SIGMOD/PODS Conference (SIGMOD 2010), Indianapolis, IN, USA, Jun. 2010
27. Jonghyun Han, Xing Xie, Woontack Woo, Context-based Local Hot Topic Detection for Mobile User, poster, the 8th International Conference on Pervasive Computing (Pervasive 2010), Helsinki, Finland, May 2010
28. Jing Yuan, Yu Zheng, Chengyang Zhang, Xing Xie, Guangzhong Sun, An Interactive Voting-based Map Matching Algorithm, the 11th International Conference on Mobile Data Management (MDM 2010, acceptance rate 16/63=25%), Kansas, MI, USA, May 2010
29. Yu Zheng, Xing Xie, Learning Location Correlation from User-Generated GPS trajectories, the 11th International Conference on Mobile Data Management (MDM 2010), short paper, Kansas, MI, USA, May 2010
30. Zhenqiang Gong, Guang-Zhong Sun, Xing Xie, Protecting Privacy in Location-based Services Using K-anonymity without Cloaked Region, the 1st International Workshop on Uncertain Mobile Data Management and Mining (UMMM 2010), held in conjunction with MDM 2010, Kansas, MI, USA, May 2010
31. Wenchen Zheng, Yu Zheng, Xing Xie, Qiang Yang, Collaborative Location and Activity Recommendations with GPS History Data, 19th International World Wide Web Conference (WWW 2010, acceptance rate 104/743=14%), Raleigh, NC, USA, Apr. 2010

32. Chang Sheng, Yu Zheng, Wynne Hsu, Mong Li Lee, Xing Xie, Answering Top-K Similar Region Search Queries, International Conference on Database Systems for Advanced Applications (DASFAA 2010), Tsukuba, Japan, Apr. 2010
33. Yin Lou, Chengyang Zhang, Yu Zheng, Xing Xie, Wei Wang, Yan Huang, Map-Matching for Low-Sampling-Rate GPS Trajectories, 17th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS 2009, acceptance rate  $38/185=20.5\%$ ), Seattle, USA, Nov. 2009
34. Yu Zheng, Lizhu Zhang, Xing Xie, Wei-Ying Ma, Mining Correlation between Locations Using Human Location History, 17th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS 2009), poster, Seattle, USA, Nov. 2009
35. Rongrong Ji, Xing Xie, Hongxun Yao, Wei-Ying Ma, Mining City Landmarks from Blogs by Graph Modeling, 17th ACM International Conference on Multimedia 2009 (ACM MM 2009, content track, acceptance rate  $22/138=16\%$ ), Beijing, China, Oct. 2009
36. Dechao Liu, Matthew R. Scott, Rongrong Ji, Wei Jiang, Hongxun Yao, Xing Xie, Location Sensitive Indexing for Image-Based Advertising, 17th ACM International Conference on Multimedia 2009 (ACM MM 2009), short paper, Beijing, China, Oct. 2009
37. Matthew R. Scott, Wei Jiang, Xing Xie, Jonathan Tien, Gang Chen, Dong Xiang, VisiAds: A Vision-based Advertising Platform for Camera Phones, demo, 2009 IEEE International Conference on Multimedia and Expo (ICME 2009), Cancun, Mexico, Jun. 2009
38. Wei Jiang, Dechao Liu, Xing Xie, Matthew R. Scott, Jonathan Tien, Dong Xiang, An Online Advertisement Platform Based on Image Content Bidding, 2009 IEEE International Conference on Multimedia and Expo (ICME 2009, acceptance rate= $23\%$ ), Cancun, Mexico, Jun. 2009
39. Rongrong Ji, Xing Xie, Hongxun Yao, Wei-Ying Ma, Hierarchy Vocabulary Optimization for Effective and Transferable Retrieval, poster, IEEE Computer Society Conference on Computer Vision and Pattern Recognition 2009 (CVPR 2009, acceptance rate  $383/1464=26.2\%$ ), Miami, Florida, Jun. 2009
40. Yu Zheng, Yukun Chen, Xing Xie, Wei-Ying Ma, GeoLife 2.0: A Location-Based Social Networking Service, demo, the 10th International Conference on Mobile Data Management (MDM 2009), Taipei, Taiwan, May 2009
41. Yang Ye, Yu Zheng, Yukun Chen, Jianhua Feng, Xing Xie, Mining Individual Life Pattern Based on Location History, the 10th International Conference on Mobile Data Management (MDM 2009, acceptance rate  $23/88=26.1\%$ ), Taipei, Taiwan, May 2009

42. Yu Zheng, Lizhu Zhang, Xing Xie, Wei-Ying Ma, Mining Interesting Locations and Travel Sequences from GPS Trajectories for Mobile Users, 18th International World Wide Web Conference (WWW 2009, acceptance rate  $104/888=11.7\%$ ), Madrid, Spain, Apr. 2009
43. Yuki Arase, Xing Xie, Manni Duan, Takahiro Hara, Shojiro Nishio, A Game Based Approach to Assign Geographical Relevance to Web Images, 18th International World Wide Web Conference (WWW 2009, acceptance rate  $104/888=11.7\%$ ), Madrid, Spain, Apr. 2009
44. Quannan Li, Yu Zheng, Xing Xie, Yukun Chen, Wenyu Liu, Mining User Similarity Based on Location History, 16th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS 2008), Irvine, CA, USA, Nov. 2008
45. Xiangye Xiao, Xing Xie, Qiong Luo, Wei-Ying Ma, Density based Co-Location Pattern Discovery, 16th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS 2008), Irvine, CA, USA, Nov. 2008
46. Yu Zheng, Quannan Li, Yukun Chen, Xing Xie, Understanding Mobility Based on GPS Data, 10th International Conference on Ubiquitous Computing (UbiComp 2008, acceptance rate  $42/226=18.6\%$ ), Seoul, South Korea, Sep. 2008
47. Yu Zheng, Xing Xie, Ruochi Zhang, Wei-Ying Ma, Searching Your Life on Web Maps, Workshop on Mobile Information Retrieval (MobIR 2008), Singapore, Jul. 2008
48. Jim Kleban, Xing Xie, Wei-Ying Ma, Spatial Pyramid Mining for Logo Detection in Natural Scenes, 2008 IEEE International Conference on Multimedia and Expo (ICME 2008), Hannover, Germany, Jun. 2008
49. Manni Duan, Xing Xie, Xiuqing Wu, Wei-Ying Ma, Visual Pattern Weighting for Near-Duplicate Image Retrieval, poster, 2008 IEEE International Conference on Multimedia and Expo (ICME 2008), Hannover, Germany, Jun. 2008
50. Rongrong Ji, Xing Xie, Hongxun Yao, Yongjian Wu, Wei-Ying Ma, Vocabulary Tree Incremental Indexing for Scalable Location Recognition, 2008 IEEE International Conference on Multimedia and Expo (ICME 2008), Hannover, Germany, Jun. 2008
51. Longhao Wang, Yu Zheng, Xing Xie, Wei-Ying Ma, A Flexible Spatio-Temporal Indexing Scheme for Large-Scale GPS Track Retrieval, the 9th International Conference on Mobile Data Management (MDM 2008, acceptance rate  $26/119=21.8\%$ ), Beijing, China, Apr. 2008
52. Yu Zheng, Longhao Wang, Xing Xie, Wei-Ying Ma, GeoLife: Managing and Understanding Your Past Life over Maps, the 9th International Conference on Mobile Data Management (MDM 2008), demo, Beijing, China, Apr. 2008

53. Xiangye Xiao, Longhao Wang, Xing Xie, Qiong Luo, Discovering Colocated Queries in Geographic Search Logs, First International Workshop on Location and the Web (LocWeb 2008), Beijing, China, Apr. 2008
54. Yu Zheng, Like Liu, Longhao Wang, Xing Xie, Learning Transportation Mode from Raw GPS Data for Geographic Applications on the Web, 17th International World Wide Web Conference (WWW 2008, acceptance rate 103/880=11.7%), Beijing, China, Apr. 2008
55. Chong Wang, Jinggang Wang, Xing Xie, Wei-Ying Ma, Mining Geographical Knowledge Using Location Aware Topic Model, The 4th International Workshop on Geographic Information Retrieval (GIR 2007), Lisboa, Portugal, Nov. 2007
56. Zhisheng Li, Chong Wang, Xing Xie, Wei-Ying Ma, Query Parsing Task for GeoCLEF2007, working note, GeoCLEF 2007, Budapest, Hungary, Sep. 2007, also in LNCS Vol. 5152, 2008, p842-849 (Exploring LDA-Based Document Model for Geographic Information Retrieval)
57. Zhisheng Li, Chong Wang, Xing Xie, Wei-Ying Ma, MSRA Columbus at GeoCLEF 2007, working note, GeoCLEF 2007, Budapest, Hungary, Sep. 2007
58. Yu Zheng, Xing Xie, Wei-Ying Ma, Distributed Architecture for Large Scale Image-Based Search, poster, 2007 IEEE International Conference on Multimedia and Expo (ICME 2007), Beijing, China, Jul. 2007
59. Zhiwei Li, Xing Xie, Lei Zhang, Wei-Ying Ma, Searching One Billion Web Images by Content: Challenges and Opportunities, 2007 International Workshop on Multimedia Content Analysis and Mining (MCAM 2007), WeiHai, China, Jun. 2007
60. Zhisheng Li, Chong Wang, Xing Xie, Wei-Ying Ma, MSRA Columbus at GeoCLEF 2006, In: Evaluation of Multilingual and Multi-modal Information Retrieval, 7th Workshop of the Cross-Language Evaluation Forum (CLEF 2006), Alicante, Spain, Sep. 2006, Peters, C., etc. (Eds.), also in LNCS Vol. 4730, 2007, p926-929
61. Xiangye Xiao, Qiong Luo, Xing Xie, Wei-Ying Ma, A Comparative Study on Classifying the Functions of Web Page Blocks, poster, ACM 15th Conference on Information and Knowledge Management (CIKM 2006), Arlington, USA, Nov. 2006
62. Qi Zhang, Xing Xie, Lee Wang, Lihua Yue, Wei-Ying Ma, Detecting Geographical Serving Area of Web Resources, The 3rd International Workshop on Geographic Information Retrieval (GIR 2006), Seattle, USA, Aug. 2006
63. Zhisheng Li, Chong Wang, Xing Xie, Xufa Wang, Wei-Ying Ma, Indexing implicit locations for geographical information retrieval, The 3rd International Workshop on Geographic Information Retrieval (GIR 2006), Seattle, USA, Aug. 2006
64. Yinghua Zhou, Xin Fan, Xing Xie, Yuchang Gong, Wei-Ying Ma, Inquiring of the Sights from the Web via Camera Mobiles, poster, 2006 IEEE International Conference on Multimedia and Expo (ICME 2006), Toronto, Canada, Jul. 2006

65. Menglei Jia, Xin Fan, Xing Xie, Mingjing Li, Wei-Ying Ma, Photo-to-Search: Using Camera Phones to Inquire of the Surrounding World, demo, The 7th International Conference on Mobile Data Management (MDM'06), Nara, Japan, May, 2006.
66. Xin Fan, Xing Xie, Wei-Ying Ma, Detecting the Sufficient Display Resolution for Image Browsing, The 7th International Conference on Mobile Data Management (MDM'06), Nara, Japan, May, 2006.
67. Xin Fan, Xing Xie, Zhiwei Li, Mingjing Li, Wei-Ying Ma, Photo-to-Search: Using Multimodal Queries to Search the Web from Mobile Devices, poster, The 7th ACM SIGMM International Workshop on Multimedia Information Retrieval (MIR 2005), in conjunction with ACM Multimedia 2005, Singapore, Nov. 2005
68. Chuang wang, Xing Xie, Lee Wang, Yansheng Lu, Wei-Ying Ma, Detecting Geographic Locations from Web Resources, The 2nd International Workshop on Geographic Information Retrieval (GIR 2005), ACM Fourteenth Conference on Information and Knowledge Management (CIKM 2005), Bremen, Germany, Oct. 2005
69. Yinghua Zhou, Xing Xie, Chuang Wang, Yuchang Gong, Wei-Ying Ma, Hybrid Index Structures for Location-based Web Search, ACM Fourteenth Conference on Information and Knowledge Management (CIKM 2005, acceptance rate  $76/425=17.9\%$ ), Bremen, Germany, Oct. 2005
70. Zhigang Hua, Qingshan Liu, Hanqing Lu, Xiang-Jun Wang, Xing Xie, Wei-Ying Ma, AIRE: An Ambient Interactive and Responsive Environment for Mobile Image Management, poster, 7th International Conference on Human Computer Interaction with Mobile Devices and Services (MobileHCI'05), Salzburg, Austria, Sep. 2005
71. Lee Wang, Chuang Wang, Xing Xie, Josh Forman, Yansheng Lu, Wei-Ying Ma, Ying Li, Detecting Dominant Locations from Search Queries, The 28th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2005, acceptance rate  $71/370=19.2\%$ ), Salvador, Brazil, Aug. 2005
72. Zhigang Hua, Chuang Wang, Xing Xie, Hanqing Lu, Wei-Ying Ma, Automatic Annotation of Location Information for WWW Images, 2005 IEEE International Conference on Multimedia and Expo (ICME 2005), Amsterdam, The Netherlands, Jul. 2005
73. Chuang Wang, Xing Xie, Lee Wang, Yansheng Lu, Wei-Ying Ma, Web Resource Geographic Location Classification and Detection, 14th International World Wide Web Conference, poster, Chiba, Japan, May 2005
74. Zhigang Hua, Hao Liu, Xing Xie, Hanqing Lu, Wei-Ying Ma, Representing Personal Web Information Using a Topic-Oriented Interface, 14th International World Wide Web Conference, poster, Chiba, Japan, May 2005
75. Xing Xie, Hao Liu, Simon Goumaz, Wei-Ying Ma, Learning User Interest for Image Browsing on Small-form-factor Devices, 2005 ACM Conference on Human Factors in

- Computing Systems (CHI 2005, acceptance rate  $93/371=25.1\%$ ), Apr. 2005, Portland, Oregon, USA.
76. Xing Xie, Gengxin Miao, Ruihua Song, Ji-Rong Wen, Wei-Ying Ma, Efficient Browsing of Web Search Results on Mobile Devices Based on Block Importance Model, The 3rd IEEE International Conference on Pervasive Computing and Communications (PerCom 2005), Mar. 2005, Kauai Island, Hawaii, USA.
  77. Zhigang Hua, Xing Xie, Hanqing Lu, Wei-Ying Ma, ASAP: A Synchronous Approach for Photo Sharing Across Multiple Devices, The 11th International Multi-Media Modelling Conference (MMM2005), Jan. 2005, Melbourne, Australia.
  78. Yiqun Hu, Xing Xie, Wei-Ying Ma, Liang-Tien Chia, Deepu Rajan, Salient Region Detection using Weighted Feature Maps based on the Human Visual Attention Model, 2004 Pacific-Rim Conference on Multimedia (PCM 2004), Nov. 2004, Tokyo Waterfront City, Japan.
  79. Chong Wang, Xing Xie, Wenyan Wang, Wei-Ying Ma, Improving Web Browsing on Small Devices Based on Table Classification, 2004 Pacific-Rim Conference on Multimedia (PCM 2004), Nov. 2004, Tokyo Waterfront City, Japan.
  80. Zhigang Hua, Xing Xie, Hanqing Lu, Wei-Ying Ma, Automatic Synchronized Browsing of Images across Multiple Devices, 2004 Pacific-Rim Conference on Multimedia (PCM 2004), poster, Nov. 2004, Tokyo Waterfront City, Japan.
  81. Patrick Baudisch, Xing Xie, Chong Wang, Wei-Ying Ma, Collapse-to-Zoom: Viewing Web Pages on Small Screen Devices by Interactively Removing Irrelevant Content, 17th Annual ACM Symposium on User Interface Software and Technology (UIST 2004), TechNote, Sante Fe, NM, Oct. 2004.
  82. Hao Liu, Xing Xie, Xiaou Tang, Wei-Ying Ma, Clustering-based navigation of image search results on mobile devices, The first Asia Information Retrieval Symposium (AIRS2004), Oct. 2004, Beijing China.
  83. Hao Liu, Xing Xie, Xiao-Ou Tang, Zhi-Wei Li, Wei-Ying Ma, Effective Browsing of Web Image Search Results, 6th ACM SIGMM International Workshop on Multimedia Information Retrieval (MIR 2004), in conjunction with ACM Multimedia 2004, Oct, 2004, New York, NY USA.
  84. Zhiwei Li, Xing Xie, Hao Liu, Xiao-Ou Tang, Mingjing Li, Wei-Ying Ma, Intuitive and Effective Interfaces for WWW Image Search Engines, 12th ACM International Conference on Multimedia (ACM MM 2004), New York City, USA, Oct. 2004, demo.
  85. Zheng Zhang, Yu Chen, Shi-Ding Lin, Bo-Ying Lu, Shu-Ming Shi, Xing Xie, Chuan Yuan, P2P Resource Pool and Its Application to Optimize Wide-Area Application Level Multicasting, International Workshop on Network Design and Architecture (IWNDA) 2004, in conjunction with The 2004 International Conference on Parallel Processing (ICPP-04), Montreal, Quebec, Canada, Aug. 2004.

86. Xing Xie, Wei-Ying Ma, Hong-Jiang Zhang, Maximizing Information Throughput for Multimedia Browsing on Small Displays, 2004 IEEE International Conference on Multimedia and Expo (ICME 2004), Taipei, Jun. 2004.
87. Yusuo Hu, Xing Xie, Zonghai Chen, Wei-Ying Ma, Attention Model Based Progressive Image Transmission, 2004 IEEE International Conference on Multimedia and Expo (ICME 2004), Taipei, Jun. 2004.
88. Xing Xie, Xin Fan, Wei-Ying Ma, He-Qin Zhou, Adapting Images on Proxies for Small Form Factor Devices, 4th IEEE Pacific-Rim Conference on Multimedia (PCM2003), Singapore, Dec. 2003.
89. Yusuo Hu, Xing Xie, Zong-hai Chen, Wei-Ying Ma, Effective Image Browsing on Mobile Devices: a Region-based Approach, 4th IEEE Pacific-Rim Conference on Multimedia (PCM2003), Singapore, Dec. 2003.
90. Hao Liu, Xing Xie, Wei-Ying Ma, Hong-Jiang Zhang, Automatic Browsing of Large Pictures on Mobile Devices, 11th ACM International Conference on Multimedia (ACM MM 2003), Berkeley, CA, USA, Nov. 2003.
91. Xin Fan, Xing Xie, He-Qin Zhou, Wei-Ying Ma, Looking into Video Frames on Small Displays, 11th ACM International Conference on Multimedia, Berkeley, CA, USA, Nov. 2003, poster.
92. Ming-Yu Wang, Xing Xie, Wei-Ying Ma, Hong-Jiang Zhang, MobiPicture - Browsing Pictures on Mobile Devices, 11th ACM International Conference on Multimedia, Berkeley, CA, USA, Nov. 2003, demo.
93. Wei-Ying Ma, Xing Xie, Chun Yuan, Yu Chen, Zheng Zhang, Hong-Jiang Zhang, Enabling Multimedia Adaptation Services in Content Delivery Networks, 3rd International Workshop on Intelligent Multimedia Computing and Networking, in conjunction with 7th Joint Conference on Information Sciences, pp 1321-1324, Cary, North Carolina, USA, Sep. 2003
94. Xin Fan, Xing Xie, Wei-Ying Ma, Hong-Jiang Zhang, He-Qin Zhou, Visual Attention Based Image Browsing on Mobile Devices, 2003 IEEE International Conference on Multimedia and Expo (ICME 2003), Vol.I, pp 53-56, Baltimore, MD, USA, Jul. 2003
95. Wei-Ying Ma, Xing Xie, Chun Yuan, Yu Chen, Zheng Zhang, Hong-Jiang Zhang, Media Companion: Delivering Content-oriented Web Services to Internet Media, 12th International World Wide Web Conference, poster, Budapest, HUNGARY, May 2003
96. Li-Qun Chen, Xing Xie, Wei-Ying Ma, Hong-Jiang Zhang, He-Qin Zhou, Huanqing Feng, DRESS: A Slicing Tree Based Web Page Representation for Various Display Sizes, 12th International World Wide Web Conference, poster, Budapest, HUNGARY, May 2003
97. Li-Qun Chen, Xing Xie, Wei-Ying Ma, Hong-Jiang Zhang, He-Qin Zhou, Image Adaptation Based on Attention Model for Small-form-factor Devices, 9th

- International Conference on Multimedia Modeling, pp 421-439, Taipei, Taiwan, Jan. 2003
98. Xing Xie, Hua-Jun Zeng, Wei-Ying Ma, Enabling Personalization Services on the Edge, 10th ACM International Conference on Multimedia, poster, pp 263-266, Juan-les-Pins, France, Dec. 2002
  99. Xie Xing, Liu Wenyin, Hongjiang Zhang and Yudong Yang, Section-based Filtering and Its Application in SearchFilter, Workshop on Information Filtering, WWW10, Hong Kong, May, 2001
  100. Xie Xing, Zhou Zhi and Chen Guoliang, An Efficient Restart Strategy of Local Optimization for the TSP, Proc. of the 16th IFIP World Computer Congress and Intl. Conf. on Software: Theory and Practice, Beijing, China, IEEE Computer Society Press, Aug. 2000, p756-759
  101. Chen Qiang, Wang Bin and Xie Xing, DFT System and Its Applications on Variational Four-dimensional Data Assimilation, AD 2000: From simulation to optimization, Jun. 2000, Sophia Antipolis, France
  102. Wu Jigang, Chen Guoliang and Xie Xing, Research on General Best-first Branch-and-Bound Algorithms, Proc. of the 1st Intl. Conf. on Parallel and Distributed Computing, Applications and Technologies, Hong Kong, May 2000, p141-148
  103. Wu Jigang, Zhang Xianchao, Xie Xing and Chen Guoliang, An Average Optimal Branch-and-Bound Algorithm on Distributed Memory Systems, Proc. of the 4th Intl. Conf. on High-Performance Computing in Asia-Pacific Region, Beijing, China, IEEE Computer Society Press, May 2000, p619-623
  104. Wu Jigang, Xie Xing and Chen Guoliang, Lower Bounds of Computational Complexity for Branch-and-Bound Algorithms, Proc. of the 5th Intl. Conf. of Young Computer Scientists, Nanjing, China, International Academic Publishes, August 1999, p86-88

## Invited Talks

1. Managing Data from the Physical World, Keynote, HotDB 2012, Beijing, China, Feb. 2012
2. Build Intelligence from the Physical World, Invited Talk, The University of Hong Kong, Hong Kong, Feb. 2012
3. Build Intelligence from the Physical World, Invited Talk, The Chinese University of Hong Kong, Hong Kong, Feb. 2012
4. Build Intelligence from the Physical World, Invited Talk, Beijing University of Aeronautics & Astronautics, Beijing, China, Dec. 2011

5. Build Intelligence from the Physical World, Invited Talk, MSRA Special Session on Mobile Computing, CCF China National Computer Conference 2011, Shenzhen, China, Nov. 2011
6. Data Mining in Mobile Applications, Invited Talk, joint course on Web data mining, Peking University, Beijing, China, Oct. 2011
7. Build Intelligence from the Physical World, Invited Talk, CCF Advanced Disciplines Lectures on NLP technologies for the Internet, Beijing, China, Aug. 2011
8. Mining Geo-Tagged Photos for Travel Recommendation, Invited Talk, the 2011 Sino-USA Summer School in Vision, Learning, and Pattern Recognition (VLPR 2011), Chengdu, China, Aug. 2011
9. Build Intelligence from the Physical World, Invited Talk, Tianjin Polytechnic University, Tianjin, China, Jun. 2011
10. Build Intelligence from the Physical World, Invited Talk, Wuhan University, Wuhan, China, Apr. 2011
11. Build Intelligence from the Physical World, Keynote, 10th International Symposium on Web & Wireless Geographical Information Systems (W2GIS 2011), Kyoto, Japan, Mar. 2010
12. Build Intelligence from the Physical World, Invited Talk, Kobe University, Kobe, Japan, Mar. 2010
13. Build Intelligence from the Physical World, Invited Talk, Ochanomizu University, Tokyo, Japan, Mar. 2010
14. Build Intelligence from the Physical World, YOCSEF Tianjin Forum on “Internet of Things and Cloud Computing”, Tianjin, China, Dec. 2010
15. Spatial Data Mining and Its Applications, Invited talk, MSRA-USTC Advance Research Lecture Series, Beijing, China, Dec. 2010
16. Build Intelligence from the Physical World, Panel talk, the 6th Joint Conference on Harmonious Human Machine Environment (HHME 2010), Luoyang, China, Sep. 2010
17. Cloud Computing and Mobile Service, Invited talk, 2010 Summer School for Chinese Graduate Students, Beijing, China, Jul. 2010
18. Spatial Data Mining and Its Applications, Invited talk, Renmin University, Beijing, China, Jun. 2010
19. Build Intelligence from the Physical World, Invited talk, University of Queensland, Brisbane, Australia, Apr. 2010
20. Build Intelligence from the Physical World, Invited talk, University of Melbourne, Melbourne, Australia, Apr. 2010
21. Build Intelligence from the Physical World, Invited talk, University of Sydney, Sydney, Australia, Apr. 2010
22. Build Intelligence from the Physical World, Invited talk, University of Tokyo, Tokyo, Japan, Jan. 2010
23. Build Intelligence from the Physical World, Invited talk, Nara Institute of Science and Technology, Nara, Japan, Jan. 2010

24. Build Intelligence from the Physical World, Invited talk, Renmin University, Beijing, China, Dec. 2009
25. Build Intelligence from the Physical World, Invited talk, Nokia Research Center China Offsite Meeting, Beijing, China, Nov. 2009
26. Build Intelligence from the Physical World, Invited talk, Gwangju Institute of Science and Technology, Gwangju, South Korea, Nov. 2009
27. Build Intelligence from the Physical World, Invited talk, International Workshop on Mobile Information Retrieval for Future (MIRF 2009), Daejeon, South Korea, Nov. 2009
28. Build Intelligence from the Physical World, Invited talk, Huazhong University of Science and Technology, Wuhan, China, Oct. 2009
29. Build Intelligence from the Physical World, Invited talk, Osaka University, Osaka, Japan, Jul. 2009
30. Build Intelligence from the Physical World, Invited talk, Kyoto University, Kyoto, Japan, Jul. 2009
31. Build Intelligence from the Physical World, Invited talk, International Workshop with Mentors on Databases, Web and Information Management for Young Researchers (iDB 2009), Kobe, Japan, Jul. 2009
32. Spatial Data Mining and Its Applications, Invited talk, University of Science and Technology of China (USTC), Hefei, China, Jun. 2009
33. Context Aware Cloud Computing, Invited talk, National Cheng Kung University, Tainan, Taiwan, May. 2009
34. Context Aware Cloud Computing, Invited talk, National Taiwan University, Taipei, Taiwan, May. 2009
35. Moving Toward Next Generation Social Network Service: a Location Based Direction, Invited talk, Hong Kong University of Science and Technology, Hong Kong, Apr. 2009
36. Moving Toward Next Generation Social Network Service: a Location Based Direction, OSGeo Forum, Beijing, China, Dec. 2008
37. Moving Toward Next Generation Social Network Service: a Location Based Direction, MSRA-Tsinghua Workshop on Internet Services and Cloud Computing, Beijing, China, Nov. 2008
38. Understanding User Behavior Geospatially, Invited talk, Max Planck Institute Informatik, Saarbrücken, Germany, Jun. 2008
39. Mobile and Location Based Search, Intelligence Information Retrieval Course, Renmin University, Beijing, China, May. 2008
40. Mobile and Location Based Search, Internet Search Course, Tsinghua University, Beijing, China, Dec. 2007

41. Photo2Search: a large scale mobile image search system, ICME'07 Workshop in Multimedia Communications and Computing, University of Science and Technology of China (USTC), Hefei, China, Jul. 2007
42. Mobile Search and local search, Series of lectures "Web Information Search and Mining", Shanghai Jiaotong University, Shanghai, China, Nov. 2006
43. Mobile Search and local search, Series of lectures "Web Information Search and Mining", Graduate University of Chinese Academy of Sciences, Beijing, China, Jun. 2006
44. Mobile Search and local search, Series of lectures "Web Search and Mining", University of Science and Technology of China (USTC), Hefei, China, Nov. 2005
45. Mobile Search, 1st NICT China-Japan Forum on Digital Content and Web Computing (DCWC2005), Beijing, China, Mar. 2005
46. Mobile Search, 2004 Open Seminar Series, Department of Frontier Informatics, Univ. of Tokyo, Tokyo, Japan, Dec. 2004
47. Mobile Search, Invited talk, National Institute of Information and Communications Technology (NICT), Kyoto, Japan, Nov. 2004

## **Professional Activities**

### **A. Conference/Workshop Organization**

1. Proceedings Chair, 14th IEEE International Conference on Mobile Data Management (MDM 2013), Milan, Italy, Jun. 2013
2. PC member, 20th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS 2012), Redondo Beach, CA, USA, Nov. 2012
3. PC member, 3rd International Conference on the Internet of Things (IoT 2012), Wuxi, China, Oct. 2012
4. Program chair, 8th Chinese Pervasive Computing Conference (PCC 2012), Shanghai, China, Sep. 2012
5. PC member, 14th International Conference on Ubiquitous Computing (UbiComp 2012), Pittsburgh, USA, Sep. 2012
6. PC member, industrial track, 18th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2012), Beijing, China, Aug. 2012
7. PC member, Nokia Mobile Data Challenge Workshop, in conjunction with Pervasive 2012, Newcastle, UK, Jun. 2012.
8. PC member, 2012 IEEE International Workshop on Sensing, Networking, and Computing with Smartphones (PhoneCom 2012), held in conjunction with IEEE ICDCS 2012, Macau, China, Jun. 2012

9. PC member, 6th International ICST Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth 2012), San Diego, CA, USA, May 2012
10. PC member, Tutorial Committee, 21st International World Wide Web Conference (WWW 2012), Lyon, France, Apr, 2012
11. Organizer, YOCSEF Forum on “Mobile Social Networks”, Beijing, China, Dec. 2011
12. Co-organizer, Third International Workshop on Mobile Information Retrieval for Future (MIRF 2011), Tokyo, Japan, Nov. 2011
13. PC member, 19th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS 2011), Chicago, IL, USA, Nov. 2011
14. PC member, Third ACM SIGSPATIAL International Workshop on Location Based Social Networks (LBSN 2011), held in conjunction with the 19th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems, Chicago, IL, USA, Nov. 2011
15. PC member, First International Workshop on Web-base Geographic Information Management (WGIM 2011), held in conjunction with the 12th International Conference on Web-Age Information Management, Wuhan, China, Sep. 2011
16. Co-organizer, International Workshop on Trajectory Data Mining and Analysis, held in conjunction with the 13th International Conference on Ubiquitous Computing, Beijing, China, Sep. 2011
17. Program Co-chair, 13th International Conference on Ubiquitous Computing (UbiComp 2011), Beijing, China, Sep. 2011
18. PC member, 12th International Symposium on Spatial and Temporal Databases (SSTD 2011), Minneapolis, MN, USA, Aug. 2011
19. Senior PC member, IJCAI-11 Special Track on Integrated and Embedded AI (IEAI), Barcelona, Spain, Jul. 2011
20. PC member, Multimedia over Wireless Symposium, held in conjunction with the 7th International Wireless Communications and Mobile Computing Conference (IWCMC 2011), Istanbul, Turkey, Jul. 2011
21. Industry Co-chair, 16th International Conference on Database Systems for Advanced Applications (DASFAA 2011), Hong Kong, Apr. 2011
22. Organizer, CCF Advanced Disciplines Lectures on UbiComp paper writing development, Beijing, China, Dec. 2010
23. Organizer, YOCSEF Forum on “Future Ubiquitous Computing Technologies”, Beijing, China, Dec. 2010
24. Co-organizer, Second International Workshop on Mobile Information Retrieval for Future (MIRF 2010), Daejeon, Korea, Nov. 2010
25. Program Co-chair, Second ACM SIGSPATIAL International Workshop on Location Based Social Networks (LBSN'10), held in conjunction with the 18th ACM SIGSPATIAL

- International Conference on Advances in Geographic Information Systems, San Jose, CA, USA, Nov. 2010
26. PC member, 18th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS 2010), San Jose, USA, Nov. 2010
  27. Demo co-chair, 7th International Conference on Ubiquitous Intelligence and Computing (UIC 2010), Xi'An, China, Oct. 2010
  28. PC member, 12th International Conference on Ubiquitous Computing (UbiComp 2010), Copenhagen, Denmark, Sep. 2010
  29. PC member, 16th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2010), Washington, DC, USA, Jul. 2010
  30. Financial co-chair, Visual Communications and Image Processing 2010 (VCIP 2010), Huangshan, China, Jul. 2010
  31. PC member, 6th Workshop on Embedded Computer Vision (ECVW 2010), held in conjunction with CVPR 2010, San Francisco, USA, Jun. 2010
  32. PC member, rich media track, 19th International World Wide Web Conference (WWW 2010), Raleigh, NC, USA, Apr. 2010
  33. Industrial co-chair, 12nd Asia Pacific Web Conference (APWeb 2010), Pusan, Korea, Apr. 2010
  34. PC member, 2nd International Workshop on Ubiquitous Data Management (UDM 2010), Tsukuba, Japan, Apr. 2010
  35. PC member, 6th Workshop on Geographic Information Retrieval (GIR 2010), Zurich, Switzerland, Feb. 2010
  36. Organizer, YOCSEF Forum on "Location Based Services", Beijing, China, Dec. 2009
  37. PC member, 3rd International Universal Communication Symposium (IUCS 2009), Tokyo, Japan, Dec. 2009
  38. Co-organizer, First International Workshop on Mobile Information Retrieval for Future (MIRF 2009), Daejeon, Korea, Nov. 2009
  39. Program Chair, International Workshop on Location Based Social Networks (LBSN'09), held in conjunction with the 17th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems, Seattle USA, Nov. 2009
  40. PC member, 17th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS 2009), Seattle, USA, Nov. 2009
  41. PC member, 5th IEEE Workshop on Embedded Computer Vision (ECV 2009), held in conjunction with ICCV 2009, Kyoto, Japan, Oct. 2009
  42. Mentor, International Workshop with Mentors on Databases, Web and Information Management for Young Researchers (iDB 2009), Kobe, Japan, Jul. 2009
  43. PC member, 10th International Conference on Mobile Data Management (MDM 2009), Taipei, Taiwan, May 2009

44. Co-organizer, International Workshop on Mobile Media Retrieval (MMR'08), held in conjunction with the 10th International Conference on Mobile Data Management, Taipei, Taiwan, May 2009
45. PC member, UI and mobility track, 18th International World Wide Web Conference (WWW 2009), Madrid, Spain, Apr, 2009
46. PC member, demo track, 14th International Conference on Database Systems for Advanced Applications (DASFAA 2009), Brisbane, Australia, Apr. 2009
47. PC member, Second International Workshop on Location and the Web (LocWeb 2009), Boston, USA, Apr. 2009
48. PC member, 2009 Conference on Intelligent User Interfaces (IUI 2009), Sanibel Island, Florida, Jan, 2009
49. PC member, 2nd International Symposium on Universal Communication, Osaka, Japan, Dec. 2008
50. PC member, 5th Workshop on Geographic Information Retrieval (GIR 2008), Napa Valley, USA, Oct. 2008
51. Co-organizer, International Workshop on Mobile Information Retrieval (MobIR'08), held in conjunction with the 31st Annual International ACM SIGIR Conference, Singapore, July 2008
52. Demo Chair, 9th International Conference on Mobile Data Management (MDM 2008), Beijing, China, May 2008
53. PC member, Workshop Committee, 17th International World Wide Web Conference (WWW 2008), Beijing, China, Apr, 2008
54. Track Chair, Browser and UI track, 17th International World Wide Web Conference (WWW 2008), Beijing, China, Apr, 2008
55. PC member, Pacific-Rim Conference on Multimedia 2007 (PCM 2007), Hong Kong, Dec. 2007
56. PC member, ACM Sixteenth Conference on Information and Knowledge Management (CIKM 2007), Lisboa, Portugal, Nov. 2007
57. PC member, 2nd International Conference on Scalable Information Systems (INFOSCALE 2007), Suzhou, China, Jun. 2007
58. Deputy Chair, Browser and UI track, 16th International World Wide Web Conference (WWW 2007), Banff, Alberta, Canada, May, 2007
59. PC member, 2nd IASTED International Conference on Human-Computer Interaction (IASTED-HCI 2007), Chamonix, France, Mar. 2007
60. PC member, 2007 Conference on Intelligent User Interfaces (IUI 2007), Hawaii, USA, Jan, 2007
61. PC member, 1st International Workshop on Mobile Multimedia Information Retrieval (MoMIR 2006), Yogyakarta, Indonesia, Dec. 2006

62. PC member, 3rd Asia Information Retrieval Symposium (AIRS 2006), Singapore, Oct. 2006
63. PC member, 15th International World Wide Web Conference (WWW 2006), Edinburgh, Scotland, May, 2006
64. Demo co-chair, 7th International Conference on Mobile Data Management (MDM 2006), Nara, Japan, May 2006
65. PC member, 2006 Conference on Intelligent User Interfaces (IUI 2006), Sydney, Australia, Jan, 2006
66. PC member, The First International Workshop on Multimedia Service Composition (MSC 2005), in conjunction with ACM Multimedia 2005, Singapore, Nov. 2005
67. PC member, The IASTED International Conference on HUMAN-COMPUTER INTERACTION (IASTED-HCI 2005), Phoenix, USA, Nov. 2005
68. PC member, 2005 Conference on Intelligent User Interfaces (IUI 2005), San Diego, USA, Jan, 2005

## **B. Editorial Activities**

69. Guest Editor, Special Issue on Ubiquitous Computing, Communications of the CCF (in Chinese), No. 11, Vol. 6, Nov. 2010
70. Guest Editor, Special Issue on Location Based Services, Communications of the CCF (in Chinese), No. 6, Vol. 6, Jun. 2010
71. Guest Editor, Special Issue on Mobile Information Retrieval, IEEE Intelligent Systems, Vol. 25, No. 1, Jan./Feb. 2010
72. Associate Editor, ACM Transactions on Intelligent Systems and Technology, since 2012
73. Action Editor, Geoinformatica, since 2011
74. Editorial Board Member, Communications of the CCF (in Chinese), since 2010
75. Editorial Board Member, ICST Transactions on Real-World Web, since 2009

## **Selected Press**

1. Adding Cabbie Know-How to Online Maps, MIT Technology Review, Nov. 2010
2. Follow that cab! Racing Google Maps on city streets, NewScientist, Nov. 2010
3. Mobile Search's Key is Understanding Users (in Chinese), Popular Computer Week, Nov. 1, 2010
4. YOCSEF Seminar "Location Based Service" (in Chinese), CCF news, Dec. 2009
5. Location-Based Social Networks Take Off, MSR news, Dec. 2009
6. Introducing GeoLife 2.0, Based on Virtual Earth, Softpedia, Feb. 2009

7. It's a Good Time To Be at Microsoft—A Report from TechFest, Xconomy, Feb. 2009
8. Techfest: Image-Centric Advertising Platform, Channel 10, Feb. 2009
9. Techfest: GeoLife 2.0, Channel 10, Feb. 2009
10. One big science fair for hundreds of Ph.D.s, The Seattle Times, Mar. 2008
11. Web Page Adaptive Rendering for Mobile Phones (in Chinese), China Internet Weekly, Jun. 2007
12. Text-Search Tricks Speak Volumes in Image Search, MSR news, May 2007
13. Magic Photo2search (in Chinese), China Internet Weekly, Apr. 2007
14. TechFest explores future technologies, CNN, Mar. 2007
15. Chinese firms get hold of Microsoft tech, ZDNet, Oct. 2006
16. Microsoft licensed its IP to China companies for the first time, Xinhua News Agency, Oct. 2006
17. Location Still Matters on the Web: Types of Location Information, SEO by the SEA, Sep. 2006
18. Windows Live Mobile Updated, WAP Review, Sep. 2006
19. Microsoft searches toward the future, ZDNet India, Apr. 2006
20. Microsoft Shoots for Photo Search, eWEEK, Apr. 2006
21. Microsoft Research's Photo2Search: Finally a Good Use for a Phone Camera?, Pocket PC Thoughts, Apr. 2006
22. Photo2Search: Explore the Real World via Camera Phone, MSR news, Apr. 2006
23. Windows Live Search - Mobile Beta, WAP Review, Jan. 2006
24. Squeeze the Screen, MSR news, Oct. 2004
25. Microsoft Research Developing Image Browsing Technologies, Pocket PC Thoughts, Aug. 2003

## Awards

- Microsoft Ship-It Award, 2010
- Microsoft Gold Star Award, 2010
- Microsoft Ship-It Award, 2009
- Microsoft Gold Star Award, 2007
- Microsoft Teamwork Award, 2006
- Microsoft Fellowship, 1999

## Memberships

- Senior Member of the IEEE (Member 2004, Senior Member 2009)
- Senior Member of ACM (Member 2005, Senior Member 2010)

- Senior Member of China Computer Federation (CCF) (Member 2009, Senior Member 2011)
- Secretary of ACM SIGSPATIAL China (since 2009)
- AC Member of CCF Young Computer Scientists & Engineers Forum (YOCSEF) (since 2010)
- Member of Chinese Computer Federation Technical Committee on Pervasive Computing (Since 2009)
- Member of Joint Steering Committee of the UbiComp and Pervasive Conference Series (Since 2011)
- Member of Technical Committee on Theory and Method, China Association for Geographic Information Service (Since 2012)