

Xin Sui

CONTACT INFORMATION

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RESEARCH INTERESTS

Game theory, mechanism design, multi-agent system, preference elicitation, electronic commerce

EDUCATION

University of Toronto, Toronto, ON, Canada

2009.9 - present. Ph.D., Department of Computer Science

- Advisor: Craig Boutilier

The Chinese University of Hong Kong, Shatin, N.T., Hong Kong SAR, China

2007.9 - 2009.8. M.Phil., Department of Computer Science and Engineering

- Dissertation: “Adaptive Bidding Strategies in Agent-Based Combinatorial Auctions”
- Advisor: Ho-Fung Leung

Jilin University, Changchun, Jilin, China

2002.9 - 2006.7. B.E., College of Software Engineering

PUBLICATIONS

- Xin Sui and Alex Francois-Nienaber and Craig Boutilier. Multi-dimensional Single-peaked Consistency and its Approximations. In Proceedings of the Twenty-third International Joint Conference on Artificial Intelligence (IJCAI-13), Beijing, China, 2013 (forthcoming).
- Xin Sui and Craig Boutilier and Toumas Sandholm. Analysis and Optimization of Multi-dimensional Percentile Mechanisms. In Proceedings of the Twenty-third International Joint Conference on Artificial Intelligence (IJCAI-13), Beijing, China, 2013 (forthcoming).
A earlier version appeared in the Proceedings of the Fourth International Workshop on Computational Social Choice (COMSOC-12), Krakow, Poland, 2012.
- Xin Sui and Craig Boutilier. Efficiency and Privacy Tradeoffs in Mechanism Design. In *Proceedings of the Twenty-fifth National Conference on Artificial Intelligence (AAAI-11)*, San Francisco, LA, USA, 2011.
- Xin Sui and Ho-Fung Leung. A Q-Learning Based Adaptive Bidding Strategy in Combinatorial Auctions. In *Proceedings of the 11th International Conference on Electronic Commerce (ICEC-09)*, Taipei, China, 2009.
- Xin Sui and Ho-Fung Leung. An Adaptive Bidding Strategy for Combinatorial Auction-Based Resource Allocation in Dynamic Markets (Extended Abstract). In *Proceedings of the 8th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS-09)*, Budapest, Hungary, 2009.
- Xin Sui and Ho-Fung Leung. An Adaptive Bidding Strategy in Multi-round Combinatorial Auctions for Resource Allocation. In *Proceedings of the 20th IEEE International Conference on Tools with Artificial Intelligence (ICTAI-08)*, Dayton, OH, USA, 2008.

PRESENTATIONS AND POSTERS

- Generalized Median Mechanisms for Group Decision Making in Multi-dimensional Settings. In Research In Action 2012 (RIA-2012), Department of Computer Science, University of Toronto, Toronto, Canada, 2012.
- Efficiency and Privacy Tradeoffs in Mechanism Design. In the twenty-fifth National Conference on Artificial Intelligence (AAAI-11), San Francisco, LA, USA, 2011.

HONORS AND
AWARDS

- AAAI-11 student scholarship award.
- Graduate student scholarship, 2009 - 2013. Department of Computer Science, University of Toronto.
- Graduate student scholarship, 2007 - 2009. Department of Computer Science and Engineering, The Chinese University of Hong Kong.
- Bachelor Degree with 1st Class Honour 2006. College of Software Engineering, Jilin University.
- Undergraduate Scholarship, 2002 - 2006. College of Software Engineering, Jilin University.

TEACHING

- CSC2534: Decision Making Under Uncertainty, Spring 2013. Department of Computer Science, University of Toronto.
- CSC148: Introduction to Computer Science, Spring 2012. Department of Computer Science, University of Toronto.
- CSC192: Programming Language and Data Structure, Fall 2010. Department of Computer Science, University of Toronto.
- CSC190: Algorithms and Data Structure, Spring 2010, 2011. Department of Computer Science, University of Toronto.
- CSCI2100: Data Structures, Spring 2009. Department of Computer Science and Engineering, The Chinese University of Hong Kong.
- CSCI3180: Principles of Programming Languages, Fall 2008. Department of Computer Science and Engineering, The Chinese University of Hong Kong.

ACADEMIC
ACTIVITY

- Reviewer
COMSOC-12, IJCAI-13

COMPUTER SKILLS

- Languages: C, C++, C#, Java, some use of Unix shell scripts.
- Applications: Microsoft Office, L^AT_EX, iWork, Xcode, Visual Studio
- Operating Systems: Mac OS X, Windows, Unix/Linux.