

Po-An Chen

Ph.D. Student,
Department of Computer Science, Viterbi School of Engineering
University of Southern California

Contact Information

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Research Interests

Algorithmic game theory and mechanism design, distributed algorithms and systems.

Focus: Game-theoretic flow routing, incentives in peer-to-peer systems, peer-to-peer routing networks

Education

2005-

Ph.D. Student in Computer Science, University of Southern California

Current GPA: 3.959

Advisor: Prof. David Kempe

Courses completed: Foundations of Artificial Intelligence; Analysis of Algorithms; Database Systems; Randomized Algorithms; Advanced Operating Systems; Approximation Algorithms; Game Theory

2005-2007

M.S. in Computer Science, University of Southern California

2001-2003

M.B.A. in Information Management, National Taiwan University, Taiwan

Advisor: Prof. Yih-Kuen Tsay

1997-2001

B.B.A. in Information Management, National Taiwan University, Taiwan

Academic Experience

2006-

Research Assistant, USC

Advisor: Prof. David Kempe

2005-2006

Graduate Research Assistant, Information Sciences Institute, USC

2003-2005

Research Assistant, Institute of Information Science, Academia Sinica, Taiwan

Supervisor: Dr. Tyng-Ruey Chuang

Teaching Assistant Experience

2007 Spring

CS 570: Analysis of Algorithms, Department of Computer Science, USC

2003 Spring

Algorithms, Department of Information Management, National Taiwan University

2002 Fall

Distributed Information Systems, Department of Information Management, National Taiwan University

2002 Spring

Theory of Computing, Department of Information Management, National Taiwan University

2001 Fall

Information Security, Department of Information Management, National Taiwan University

E-Commerce Technology, Department of Information Management, National Taiwan University

Industrial Experience

2002

Summer Intern, the E-Commerce Laboratory, Institute for Information Industry, Taiwan

Publications

Conference Papers

Po-An Chen and David Kempe. *Altruism, Selfishness, and Spite in Traffic Routing*. The 9th International ACM Conference on Electronic Commerce 2008 (EC'08), July 10-12, 2008. Chicago, IL.

Po-An Chen and Tyng-Ruey Chuang. *Truthful Online Auctions for Pricing Peer-to-Peer Services*. The 7th International IEEE Conference on E-Commerce Technology 2005 (CEC'05), July 19-22, 2005. Technical University of Munich, Germany.

Workshop Papers

Po-An Chen and David Kempe. *Altruism and Selfishness in Traffic Routing*. The 45th Annual Allerton Conference on Communication, Control, and Computing, September 26-28, 2007. University of Illinois at Urbana-Champaign, IL, USA.

Rajiv T. Maheswaran, Craig M. Rogers, Romeo Sanchez, Pedro Szekely and Po-An Chen. *Scaling in Domains with Uncertainty: Criticality Sensitive Coordination*. The 3rd Workshop on Challenges in the Coordination of Large Scale Multi-Agent Systems (LSMAS), AAMAS 2006.

Rajiv T. Maheswaran, Craig M. Rogers, Romeo Sanchez, Pedro Szekely and Po-An Chen. *Distributed Scheduling for Multi-Agent Teamwork in Uncertain Domains: Criticality-Sensitive Coordination*. Workshop on Multi-Agent Sequential Decision Making in Uncertain Domains (MSDM), AAMAS 2006.

Thesis

A Scalable and Efficient Object Location Scheme Based on the CAN Model. Master thesis. Department of Information Management, National Taiwan University. June 3003.
Advisor: Prof. Yih-Kuen Tsay

Awards

2007-2008 USC Annenberg Graduate Fellowship

Conference Referee

Distributed Computing: 19th International Conference (DISC'05), Cracow, Poland