Publications of Chung-Wei Hang

JOURNAL PAPERS 1 2

- [J1] **Chung-Wei Hang** and Munindar P. Singh. "Generalized Framework for Personalized Recommendations in Agent Networks." *Journal of Autonomous Agents and Multi-Agent Systems* (JAAMAS). In press. (Rank A, IF: 2.103, SCIE, EI)
 - Design a general framework that recommends trustworthy interaction partners reached by specified trust relation patterns
- [J2] Chung-Wei Hang and Munindar P. Singh. "A Probabilistic Approach for Maintaining Trust Based on Evidence." Journal of Artificial Intelligence Research (JAIR), Volume 40, pages 221–267, 2011. (Rank A, IF: 1.691, SCI, EI)
 - Propose a trust update approach to (a) track dynamic behavior of agents, and (b) evaluate reputation providers based on their reputation reports
- [J3] Chung-Wei Hang and Munindar P. Singh. "Trustworthy Service Selection and Composition." *ACM Transactions on Autonomous and Adaptive Systems (TAAS)*, Volume 6, Issue 1, pages 5:1–5:17, February 2011. (Rank B, IF: 1.000, SCIE, EI)
 - Study how reputation of constituent services can be evaluated and rewarded/penalized based on the uality observations from compositions in service-oriented environments

 $^{^1{\}rm All~journal/conference}$ rankings are based on ERA 2010, http://www.arc.gov.au/era/era_2010/archive/era_journal_list.htm.

 $^{^2{\}rm The}\ impact\ factor\ ({\rm IF})$ is based on Journal Citation Reports from Thomson Reuters Web of Knowledge.

CONFERENCE PAPERS

- [C4] Chung-Wei Hang and Munindar P. Singh. "From Quality to Utility: Adaptive Service Selection Framework." Proceedings of the 8th International Conference on Service Oriented Computing (ICSOC), pages 456–470. San Francisco, USA, December 2010.
 (Rank A, Top conference on service-oriented computing)
 - Devise a utility-driven service selection algorithm that considers both service provider's quality and service consumers' preferences
- [C5] Chung-Wei Hang and Yonghong Wang and Munindar P. Singh. "Operators for Propagating Trust and their Evaluation in Social Networks." Proceedings of the 8th International Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS), pages 1025–1032. Budapest, Hungary, May 2009.
 - (Rank A, Top conference on multiagent systems)
 - Develop an approach to propagate trust through social networks
- [C6] Chung-Wei Hang and Yonghong Wang and Munindar P. Singh. "An Adaptive Probabilistic Trust Model and its Empirical Evaluation (Short Paper)." Proceedings of the 7th International Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS), pages 1485–1488. Estoril, Portugal, May 2008.
 - (Rank A, Top conference on multiagent systems)
 - Present a general trust model that supports prediction, propagation, and update trust in multiagent systems

WORKSHOP PAPERS

- [W7] Chung-Wei Hang and Munindar P. Singh. "Trust-based Recommendation based on Graph Similarity." The 13th AAMAS Workshop on Trust in Agent Societies. Toronto, Canada, May 2010. (Short version of [J1])
- [W8] Chung-Wei Hang and Munindar P. Singh. "Selecting Trustworthy Service in Service-Oriented Environments." The 12th AAMAS Workshop on Trust in Agent Societies. Budapest, Hungary, May 2009. (Short version of [J3])
- [W9] **Chung-Wei Hang**. "A decentralized multi-agent service lookup mechanism: cooperation and communication without center agents in RoboCup rescue." The 2nd International Workshop on Collaboration Agents, pages 21–28, Bejing, China, September 2004. (Short version of [T11])

DISSERTATION AND THESIS

- [T10] **Chung-Wei Hang**. "Probabilistic Trust Models for Social and Service Networks." *PhD Dissertation*. North Carolina State University, April 2011.
- [T11] Chung-Wei Hang. "A Decentralized Multi-agent Service Lookup Mechanism." *Master Thesis*. National Chiao Tung University, June 2004.

UNDER REVIEW

- [D12] Chung-Wei Hang and Munindar P. Singh. "Generalized Trust Propagation with Limited Evidence." September 2011.
 - Generalize trust propagation approaches to incorporate sparse evidence in a collaborative filtering manner