An SNA approach based Academic Event Recommender System for Computer Scientists

Social network analysis has been used to explore the relationships of academic cooperation among wide user communities, such as co-authorships, conflicts and common research interests relationships. The starting points are usually user communities and relationships among academic researchers. However, academic events such as international symposiums, conferences and workshops are one of important driven forces to move forwards cooperation among academic communities.

This thesis aims at designing and realising an academic event recommender system for computer scientists, using social network analysis approaches. The system deals with the addressed questions, e.g. which IT topics have more conferences this year and what conferences one of my colleagues has attended etc. Since digital information about academic events for computer scientists is substantial and easy to access, such as DBLP and ACM digital guide, computer scientists are the targeted community. The main tasks of this thesis are:

- Surveying the state-of-the-art information systems which support academic cooperation and analysing the academic social network;
- Extracting related metadata and preparing data to conceptualize an XML-based data model, handling incomplete information;
- Designing and implementing an sna approach based recommender system upon the DBLP or ACM publication database.
- Using spatial and temporal visualization tools to realise basic visualization for the events network.

This thesis is in line with the master thesis Social Network Analysis and Visualizations for Academic and Corporate Learning at Lehrstuhl für Informatik V to launch a bundle of tools and environments for better academic cooperation.

For further information please contact:

Yiwei Cao
Lehrstuhl für Informatik V
Tel.: +49 241/80-21513
cao@cs.rwth-aachen.de

Dr. Ralf Klamma
Lehrstuhl für Informatik V
Tel.: +49 241/80-21513
klamma@cs.rwth-aachen.de