

Regelungs- u. Automatisierungstechnik (Prof. Quevedo)

Vortragsankündigung im Rahmen des Regelungstechnischen Kolloquiums

Am

*Donnerstag, 30. August 2018
in Raum P1.3.01 um 11:00 Uhr*

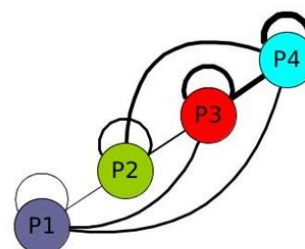
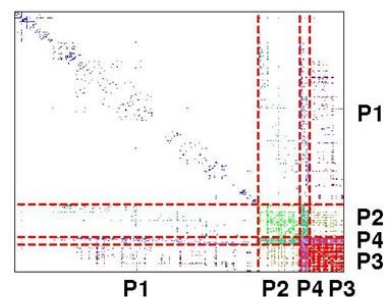
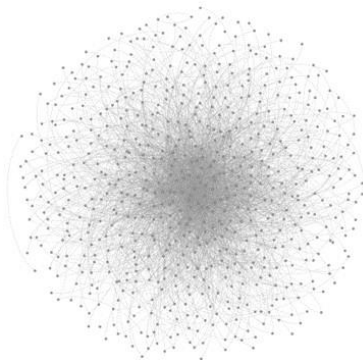
hält Herr Dr. Jeffrey Chan, RMIT University (Australien) einen Vortrag über

Generalised Graph Clustering via Blockmodels

Abstract:

In recent years, the summarisation and decomposition of social networks has become increasingly popular, from community finding to role equivalence. One such technique is blockmodelling, which decomposes networks into sets of roles. Vertices playing the same role have similar patterns of interactions with vertices in other roles. These roles, along with the role to role interactions, can succinctly summarise the underlying structure of the studied graphs.

In this presentation, I will discuss our work in discovering these blockmodels via matrix factorisation, in evolving graphs and incorporating user guidance to help discover more domain relevant decompositions. Examples from a range of networks will be used to evaluate and demonstrate what a blockmodel decomposition can reveal.



Bio:

Jeffrey Chan is currently a senior lecturer at RMIT University, Melbourne, Australia. He completed his BEng/BSci (Hons), and his PhD at the University of Melbourne, Australia in 2005 and 2009 respectively. He was first a postdoctoral researcher, then a senior postdoctoral research at the Digital Enterprise Research Institute in Galway, Ireland from 2009-2011. He returned to the University of Melbourne as a research fellow, and from 2015 has been at RMIT University. He has published more than 70 publications in machine learning, social network analysis, recommendation and data driven optimisation, in venues such as TPAMI, TKDE, DMKD, PR, KDD, ICDM, SDM, CIKM, SIGIR, AAAI and IJCAI. He has served on various conference organising committees, such as IJCAI and ASONAM, and has been on more than 15 conference program committees. He has also won the best paper award in the ACM International Conference on Web Science in 2011.