

Group Detection Inside Communities

Use Case: Detect groups of multi-discipline people in
LinkedIn

Yixuan Zhao

Alaa Ayach

The Problem



The Problem

- Multidisciplinary teams are common!
- people have common attributes like to join in the same group
- Companies are looking for those people!

Proposal & Hypotheses

- Detect interesting people for Multi discipline positions
- Multi discipline people define sub communities!

Data

- LinkedIn API for users and communities
- Will try to apply model to positions dataset

Method

- Link prediction method
 - Jaccard coefficient
- Measure
 - Cross-validation
- Evaluation
 - Train/Test evaluation

related work

- Group detection in complex networks (Lovro Šubelj)
 - General group detection
 - hierarchy discovery and link prediction tasks
- Group detection for synchronous Gaussian code-division multiple-access channels (M.K. Varanasi)
 - used generalized likelihood ratio test

timeline

- Oct.20: proposal
- Oct.31: processing the data
- Nov.14:finish the program and debug
- Nov.21:analysis the results
- Dec 1:presentation

Thanks!