Abstract

The study of networks is an active area of research due to its capability of modeling many real world complex systems. Social Network gains its popularity due to its ease of use. It enables people all over the world to interact with each other with the advent of Web 2.0 in this Internet era. Online Social Networking facilitates people to have communication nevertheless of
Comparative analysis of community discovery methods in social networks considering geographical location over the globe. Social Network Analysis is the field of research that provides a set of tools and theoretical approaches for holistic exploration of the communication and interaction patterns of social systems. A common pattern among the group of people in a network is considered as a community which is a partition of the entire network structure. There are few existing methods for discovering communities. We introduced a method called “mutual accessibility” for community discovery. This article compares such three different methods including the one that we introduced. The results of those methods are also shown by taking various datasets as an analysis.

Reference

- Pascal Pons, Matthieu Latapy, 2005, Computing communities in large networks using random walks, LNCS 3733, 284-293.
- Jordi Duch an dAlex Arenas, 2005, Community detection in complex networks using extremal optimization, Physical review E72, 027104.
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Index Terms

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Networks

Key words

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