Abstract

Research in social network analysis has increased in recent years. Because of the popularity of the social networking sites, many researchers concentrate on this area for research. In this, community mining plays an important role. Hidden communities affect the social networks in different ways. But not all hidden communities are dangerous or illegal. Most of the hidden communities are having potential knowledge. Communities are represented as a graph format. People are represented as nodes, and the relationship between the nodes are represented as edges. Several mining techniques do not considered the disconnected edges in the graph. Those hidden or disconnected edges may useful to the others in the network. Our approach on social network is fully based on the community mining on heterogeneous network. Here we analysis the various community mining techniques which is already available. Such as MinCut algorithm, Regression based algorithm, Max-Min modularity measure, LM algorithm and SECI model. Our results show that, there are some limitations in the hidden community mining technique in large scale networks. So we planned to do research in this area for better improvement.
A Perspective Analysis of Hidden Community Mining Methods in Large Scale Social Networks

- Deng Cai, Zheng Shao, Xiaofei He, Xifeng Yan, and Jiawei Han, Mining Hidden Community in Heterogeneous Social Networks, Report No. UIUCDCS-R-2005-2538 UILU-ENG-1731, March 2005.
- Osmar R. Za”ane, Jiyang Chen, and Randy Goebel, Mining Research Communities in Bibliographical Data, University of Alberta, Canada.
- Bo Yang, Jiming Liu, and Jianfeng Feng, On the Spectral Characterization and Scalable Mining of Network Communities, IEEE Transactions on Knowledge and Data Engineering. VOL. 24, No. 2, pp. 1041-4347, 2012.
- J. Ruan and W. Zhang. Identifying network communities with a high resolution.
Index Terms

Computer Science

Data Mining
Keywords

Social networks  Community Mining  Hidden Communities  Disconnected edges  mining techniques