Community Detection In Dynamic Social Networks A Game

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Community Detection In Dynamic Social
Community detection in a social network, as a result, is the gathering of its users into groups in such a way that nodes in each group are densely connected inside and sparser outside. Community detection and graph clustering problem are closely related to each other due to their nature.

Dynamic Social Community Detection and Its Applications
The community detection in dynamic social networks helps to understand the network structure and analyze the network properties. In this paper, various community detection methods have been studied...

(PDF) Community Detection in Dynamic Social Networks: A Survey
(PDF) Community Detection in Dynamic Social Networks | Scientific Research Publishing - Academia.edu There are many community detection algorithms for discovering communities in networks, but very few deal with networks that change structure. The SCAN (Structural Clustering Algorithm for Networks) algorithm is one of these algorithms that detect

(PDF) Community Detection in Dynamic Social Networks ...
Abstract and Figures Evolutionary clustering is a way of detecting the evolving patterns of communities in dynamic social networks. In principle, the detection process seeks to simultaneously...

(PDF) Evolutionary Community Detection in Dynamic Social ...
Ma, J, Liu, J, Ma, W. Decomposition-based multiobjective evolutionary algorithm for community detection in dynamic social networks. Scientific World Journal 2014; 2014: 1 — 23. Google Scholar | Crossref

Community detection in dynamic social networks: A local ...
Community structure is one of the most important properties in social networks, and community detection has received an enormous amount of attention in recent years. In dynamic networks, the communities may evolve over time so that pose more challenging tasks than in static ones. Community detection in dynamic networks is a problem which can naturally be formulated with two contradictory ...

Community Detection in Dynamic Social Networks Based on ...
This paper proposes a novel two-phase approach based on global and local information to detect communities in social network. It explores the global information in the first phase and then exploits the local information in the second phase to discover communities more accurately.

Community detection in dynamic social networks | Journal ...
Community detection in dynamic networks involves the process of incorporating the community model of a previous timestamp, or snapshot of a network structure, into the detection of the next to improve the efficiency of detecting the new community structure.

Community Detection in Dynamic Social Networks
In this paper, we propose a novel multi-objective evolutionary clustering algorithm called DECS, to detect the evolving community structure in dynamic social networks. Specifically, we develop a migration operator cooperating with efficient operators to ensure that nodes and their most neighbors are grouped together, and use a genome matrix encoding the structure information of networks to expand the search space.

Detecting the evolving community structure in dynamic ...
A new perspective on community detection: We discover communities by simulating human social behavior. In this process, the theory of closeness matrix and the concept of a comfort zone are introduced to construct a simplified network, and then the simplified network is adjusted by simulating the information spreading process in human society.

Community detection based on human social behavior ...
Multi- Agent System for Community Detection. In this incremental proposal, the dynamic social network is defined as a single graph with a set of events (succession of modifications) on nodes and edges. We start by a random partition and according to the evolution of the network, the previous detected partition is adapted in real time.

Vol. 10, No. 1, 2019 CommunityDetection in DynamicSocial ...
Community detection in dynamic networks in- volves the process of incorporating the community model of a previous timestamp, or snapshot of a network structure, into the detection of the next to improve the efficiency of detecting the new community structure.

Community Detection in Dynamic Social Networks
Community detection can help us understand the hidden social structure of the user populations, but the dynamic aspect of networks can pose problems for standard algo- rithms. This paper leverages game-theoretic models of ratio- nal behavior to attack the problem of dynamic community detection.

Community Detection in Dynamic Social Networks: A Game ...
In particular, we discuss graph-based com- munity detection techniques and many important extensions that handle dynamic, heterogeneous networks in social media. We also demonstrate how discovered patterns of communities can be used for social media mining. The concepts, algorithms, and methods presented in this lecture can help harness the ...

Community Detection and Mining in Social Media
Dynamic community detection Formally, a dynamic social network G = (V, E t) is defined by a set of nodes V and a set of time-stamped edges describing the interactions among them. Each edge e ∈ E represents an interaction between two nodes u, v ∈ V at time t (Holme & Saramäki, 2012).

Tracking community evolution in social networks: A survey ...
An analysis and visualisation procedure for dynamic networks is presented here, which identifies communities and sub-communities that persist across multiple network snapshots. An existing method for community detection in dynamic networks is adapted, extended, and implemented.

DyCoNet: A Gephi Plugin for Community Detection in Dynamic ...
Community detection is one of the most significant and stimulating research areas in social network analysis. As the activities and interaction between the entities change over time, the speed with which the network is changing is phenomenal.

A Comparative Study of Various Frameworks for Community ...
Detecting community structure of a dynamic social network is of considerable uses. To give a sense of it, consider the routing problem in communication network where nodes and links present people and mobile communications, respectively.

Adaptive Algorithms for Detecting Community Structure in ...
Community detection in dynamic networks is a problem which can naturally be formulated with two contradictory objectives and consequently be solved by an MOEA. Nevertheless, how to make the best use of MOEA to detect community structures in dynamic networks has not been fully investigated.

Decomposition-Based Multiobjective Evolutionary Algorithm ...
Many algorithms have been proposed in the last ten years for the discovery of dynamic communities. However, these methods are seldom compared between themselves. In this article, we propose a generator of dynamic graphs with planted evolving community structure, as a benchmark to compare and evaluate such algorithms. Unlike previously proposed benchmarks, it is able to specify any desired ...