

Detecting Overlapping Temporal Community Structure In Time

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Detecting Overlapping Temporal Community Structure

Abstract—We present a principled approach for detecting overlapping temporal community structure in dynamic networks. Our method is based on the following framework: find the overlapping temporal community structure that maximizes a quality function associated with each snapshot of the network subject to a temporal smoothness constraint. A novel quality

Detecting Overlapping Temporal Community Structure in Time ...

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Title: Detecting Overlapping Temporal Community Structure ...

One is the detection of overlapping community structure, and the other is the automatic determination of the number of communities in each snapshot of a temporal network. In this paper, we propose a dynamic Bayesian probability model, namely Dynamic Bayesian Non-negative Matrix Factorization (DBNMF), which belongs to the evolutionary clustering approaches with a probability interpretation.

Autonomous overlapping community detection in temporal ...

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Detecting Overlapping Temporal Community Structure in Time ...

Overlapping Community Detection in Temporal Text Networks ABSTRACT Network is a powerful language to represent relational data. One way to understand network is to analyze groups of nodes which share same properties or functions. The task of dis-covering such groups is known as community detection. Gen-

Overlapping Community Detection in Temporal Text Networks

Detecting overlapping community structure of networks based on vertex-vertex correlations. Mina Zarei, Dena Izadi and Keivan Aghababaei Samani. Department of Physics, Isfahan University of Technology, Isfahan 84156-83111, Iran. E-mail: mina-zarei@ph.iut.ac.ir, d.izadi@ph.iut.ac.ir and samani@cc.iut.ac.ir. Received 27 September 2009 Accepted 8 ...

Detecting overlapping community structure of networks ...

As indicated by the overlapping community structure, 15 regions were recognized as overlapped nodes; specifically, 11 association regions, 2 subcortical regions, 1 limbic/paralimbic region, and 1 primary region were recognized as overlapped nodes (Table 3). The overlapped nodes were mostly identified in an inferior-posterior pattern (Figure 5).

The Overlapping Community Structure of Structural Brain ...

The community structure in temporal network contributes to the understanding of evolving process of entities in complex system. The traditional method on dynamic community detection for each time step is independent of that for other time steps. It has low efficiency for ignoring historic community information.

A fast algorithm for community detection in temporal ...

Detecting the overlapping and hierarchical community structure in complex networks. Andrea Lancichinetti 1, Santo Fortunato 1,3 and János Kertész 2. Published 10 March 2009 • IOP Publishing and Deutsche Physikalische Gesellschaft New Journal of Physics, Volume 11, March 2009

Detecting the overlapping and hierarchical community ...

Chen Y, Kawadia V, Urgaonkar R (2013) Detecting overlapping temporal community structure in time-evolving networks. arXiv preprint arXiv:13037226. 4. Hopcroft J, Khan O, Kulis B, Selman B (2004) Tracking evolving communities in large linked networks. Proceedings of the National Academy of Sciences of the United States of America 101: 5249-5253.

Detecting the Community Structure and Activity Patterns of ...

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the community structure, OLCPM delivers signi cant improvement in running time compared with previous clique percolation techniques. The experimental results on both synthetic and real-world networks illustrate the e ectiveness of the method. Keywords: Community Detection, Temporal Network, Dynamic, Overlapping, Social Network, Clique, Label ...

OLCPM: An Online Framework for Detecting Overlapping ...

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Overlapping community detection and temporal analysis on Q ...

tive Matrix Factorization) to detect overlapping community structure from temporal networks, 90 which is optimized by a gradient descent algorithm. Using the automatic relevance determination, in which we assume all the scale parameters of all columns for every snapshot network are independent and identically distributed, the proposed

Autonomous Overlapping Community Detection in Temporal ...

Community structure detection has proven to be important in revealing the underlying properties of complex networks. The standard problem, where a partition of disjoint communities is sought, has been continually adapted to offer more realistic models of interactions in these systems. Here, a two-step procedure is outlined for exploring the concept of overlapping communities.

Community Structure Detection for Overlapping Modules ...

With this metric, the overlapping community structure can be efficiently detected by directly finding the optimal partition of network using standard modularity. We also describe the applications on word association network and scientific collaboration network.

Detecting the Overlapping and Hierarchical Community ...

Detecting and Tracking Community Structure in Temporal Networks: A Low-Rank + Sparse Estimation Based Evolutionary Clustering Approach Abstract: Networks provide a powerful tool to model complex systems where the different entities in the system are presented by nodes and their interactions by edges.

Detecting and Tracking Community Structure in Temporal ...

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