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Detecting Overlapping Temporal Community Structure

Abstract—We present a principled approach for detecting overlapping temporal community structure in dynamic

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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

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Structure in Time ...

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

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a temporal smoothness
constraint.

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,

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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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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.

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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

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or functions. The task of discovering 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

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September 2009

Accepted 8 ...

**Detecting
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community structure**

Get Free Detecting Overlapping Temporal **of networks ...**

As indicated by the overlapping community structure in time, 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

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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

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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

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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

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temporal community
structure in time-
evolving networks.
arXiv preprint

arXiv:13037226. 4.

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(2004) Tracking
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networks. Proceedings
of the National
Academy of Sciences
of the United States of
America 101:
5249-5253.

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Temporal Community Structure In Time Detecting the Community Structure and Activity Patterns of

...

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structure in time then it is not directly done, you could give a positive response even more with reference to this life, concerning the world.

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the community structure, OLCPM delivers significant improvement in

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running time compared
with previous clique
percolation techniques.

The experimental
results on both
synthetic and real-
world networks
illustrate the e
ffectiveness of the
method. Keywords:
Community Detection,
Temporal Network,
Dynamic, Overlapping,
Social Network, Clique,
Label ...

OLCPM: An Online

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Framework for Detecting Overlapping ...

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Overlapping
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on Q&A sites Article
type : Research ... A
third approach consists
in using a probabilistic
graphical model for

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both the user profiles
and the network
structure to solve
community detection
problem. For ... In
order to evaluate the
results of overlapping
community detection,
...

Overlapping community detection and temporal analysis on Q ...

tive Matrix

Factorization) to detect

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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

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Temporal **Overlapping Community Detection in Temporal ...** Structure in Time

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

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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

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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

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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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Community Detection
in Temporal Networks |
Background/Objectives
: One of the most
commonly observed
features of Online
Social Networks is
Community Structure.
This ...

**Overlapping
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Detection in
Temporal Networks**
Community Structure
In Time Detecting
Overlapping Temporal

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Community Structure
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