Abstract

In the field of data mining, the social network is one of the complex systems that poses significant challenges in this area. Time series anomaly detection is one of the critical applications. Recent developments in the quantitative analysis of social networks, based largely on graph theory, have been successfully used in various types of time series data. In this paper, we review the studies on graph theory to investigate and analyze time series social networks data including different efficient and scalable experimental modalities. We provide some applications, challenging issues and existing methods for time series anomaly detection.

References

A Comprehensive Survey of Time Series Anomaly Detection in Online Social Network Data

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**Index Terms**

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**Keywords**

Social networks, Time Series Analysis, Anomaly Detection