

## **Mining and Visualizing the Evolution of Subgroups in Social Networks**

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Abstract:

A social network consists of people who interact in some way, eg. as members of online communities sharing information via the Web. To learn more about community building, it is important to analyze the interaction behaviour of community members over time. We propose two approaches to analyze the evolution of two different types of online communities at subgroup level: The first method consists of statistical indicators and visualization aids provided by an interactive visualization tool. The second method is designed for the detection of communities with many fluctuating members. We discuss results of both methods on the analysis of real data from an online community of students.

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