

# 基于时空关联的高校社会网络关系挖掘方法研究

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摘要: 以高校学生刷卡消费数据为分析对象, 定义了学生之间呈现出的时空关联关系. 设计了算法检测时空关联关系, 利用检测出的时空关联关系构建社会关系网络, 并对社会关系网络进行优化, 进而挖掘出学生之间的社会网络关系. 通过判断学生是否在同一个班级来验证挖掘出的社会网络关系. 实验表明本方法能够较为准确地挖掘出学生的社会网络关系.

关键词: 时空关联; 社会网络关系; 消费数据

## Research of Method on Mining Social Network Relationship in Colleges Based on Spatio-Temporal Correlation

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Abstract: Based on the data of university students' consumption, spatio-temporal correlation between students is defined. We designs an algorithm to detect spatio-temporal association, and the social relations network is constructed by using the spatiotemporal relation detected, and the social network is optimized, and social network relationship between students is found out. The social network relationship is verified by judging whether the students are in the same class. Experiments show that this method can accurately extract the social network relationship of students.

Key words: spatio-temporal correlation; social network relationship; consumption data

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