

# 基于数据挖掘的高校图书馆图书借阅流量建模与分析

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**摘要:** 高校图书馆图书借阅流量受到多种因素的综合作用, 具有一定的混沌变化特变性, 针对当前高校图书馆图书借阅流量预测模型存在的精度低难题, 提出了基于数据挖掘的高校图书馆图书借阅流量预测模型. 引入混沌理论对高校图书馆图书借阅流量原始数据进行分析, 建立高校图书馆图书借阅流量建模的学习样本, 采用数据挖掘技术构建高校图书馆图书借阅流量预测模型, 并与其它模型进行了高校图书馆图书借阅流量预测的仿真实验. 结果表明, 本文模型能够描述高校图书馆图书借阅流量变化趋势, 高校图书馆图书借阅流量预测性能更优, 可为高校图书馆管理者提供有价值的参考信息.

**关键词:** 高校图书馆; 图书借阅流量; 建模与分析; 数据挖掘

## **Modeling and Analysis of Book Borrowing Flow in University Library Based on Data Mining**

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**Abstract:** Borrowing flow of library books in the university library is influenced by a variety of factors, and has certain chaos change specificity. In view of the low precision of the current library borrowing flow prediction model, this paper puts forward the prediction model of the borrowing flow for Library drawing books based on data mining. Chaos theory is introduced to analyze original data of library borrowing flow in university library and establish the learning sample of library borrowing flow modeling in university library, data mining technology is used to build the book borrowing flow of University Library. The simulation experiments are carried out to test book borrowing flow prediction model in university library compared with other models. The results show that the proposed model can describe the changing trend of library borrowing flow in university library, and the performance of library borrowing flow prediction in university library is better, which can provide valuable reference information for university library managers.

**Key words:** University Library; book lending flow; modeling and analysis; data mining

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