

基于关联规则的学习行为关联度分析方法研究

李飒

(辽宁石油化工大学, 辽宁 抚顺 113000)

摘要: 目前主要以在线访谈和发放调查问卷方式对学习者的学习行为进行调查, 没有充分利用网络在线远程教学平台中遗留的大量数据, 忽略了学习者的个性特征, 导致分析的结果可推广性较差. 提出基于管理规则的学习行为关联度分析方法, 选取某大型网络在线远程教育平台中记录的学习者学习行为数据进行采集和处理; 采用关联规则挖掘算法对学习者的学习行为与学习效果之间存在的规律性进行了关联分析. 实验结果表明, 在课堂实验上的大部分学习行为上学生个体之间存在显著差异性, 且学生的 Diagram, FSM, Study, Properties 和 TextEditor 这五种学生学习行为参与频率与学习效果之间存在显著的正相关关系.

关键词: 关联规则; 学习行为; 关联度

Study on Correlation Analysis Method of Learning Behavior Based on Association Rules

LI Sa

(Liaoning Shihua University, Fushun 113001, China)

Abstract: The current study mainly in the online interview and questionnaire method on learners' learning behavior investigation, did not make full use of large amounts of data from the network distance online learning platform, ignoring the personality characteristics of learners, leading to the results of the analysis extension is poor. This learning behavior association degree analysis method based on Rules select the record, a large network of online learners in distance education learning behavior data acquisition and processing; the regularity of mining association rules based on learning behavior and learning algorithm of learners among the association analysis. The experimental results show that the experiment in the classroom There are significant differences between students in part learning behavior, and there is a significant positive correlation between the participation frequency of five kinds of student learning behaviors, Diagram, FSM, Study, Properties and TextEditor.

Key words: association rules; learning behavior; association degree

作者简介:

李飒女, (1970-), 博士, 副教授. 研究方向为数据挖掘、信息管理、互联网+. E-mail: lisa-ty@sohu.com.