计算机应用 2009, 29(09) 2499-2501 DOI: ISSN: 1001-9081 CN: 51-1307/TP

本期目录 | 下期目录 | 过刊浏览 | 高级检索

[打印本页] [关闭]

数据库与知识工程

必要规则对分类影响的研究

李英杰1,尹怡欣2

- 1. 北京科技大学, 浙江林学院
- 2. 北京科技大学

摘要: 基于规则分类方法的主要计算依据是形如 "A→C"的规则(称为充分规则)及其置信度。其中: "A"代表数据集中决策属性取值的集合, "C"代表某个类标号。那么,形如 "C→A"的规则(称为必要规则)是否可以在分类算法中起到积极的作用呢?依据规则分类方法原理设计了简单的实验,实验只考虑单个决策属性的不同取值与类之间的关联。根据实验目标,分类测试采用了两种方法:方法1只考虑充分置信的影响;方法2考虑充分置信和必要置信的影响。通过在几个典型的分类集上测试,结果表明:在分类计算时适当利用必要规则置信度可以提高分类精度。

关键词: 分类 置信度 充分规则 必要规则 classification confidence sufficient rule necessary rule

Research of necessary rules' influence on classifying

Abstract: The computing gist of algorithms based on rules involves the rules like " $A \rightarrow C$ " and their confidences. Here, "A" represents the set of decision attributes and their values, and "C" represents a kind of class label. Can the rules like " $C \rightarrow A$ " act positively in classifying algorithms? A simple experiment was designed, which considered the associations between single attribute values and class label. Two testing methods were made according to the experiment goals. By the first method, confidences of " $A \rightarrow C$ " were used. By the second method, the confidences of both " $A \rightarrow C$ " and " $C \rightarrow A$ " were used. The experiments were made on several typical classifying data sets. The results show the higher classifying precision by using the double confidences.

Keywords:

收稿日期 2009-03-20 修回日期 2009-05-18 网络版发布日期 2009-09-01

DOI:

基金项目:

无

通讯作者: 李英杰

作者简介: 作者Email:

参考文献:

本刊中的类似文章

- 1. 张健 王蔚.基于支持度与置信度阈值优化技术的关联分类算法[J]. 计算机应用, 2007,(12): 3032-3034
- 2. 杨宇科 李昌国.基于最小置信度和评价分析的软件质量模糊综合评价改进方案[J]. 计算机应用, 2009,29(09): 2530-2533

扩展功能

本文信息

- ▶ Supporting info
- ▶ PDF(614KB)
- ▶[HTML全文]
- ▶参考文献[PDF]
- ▶ 参考文献

服务与反馈

- ▶把本文推荐给朋友
- ▶加入我的书架
- ▶加入引用管理器
- ▶ 引用本文
- Email Alert
- ▶ 文章反馈
- ▶浏览反馈信息

本文关键词相关文章

- ▶分类
- ▶置信度
- ▶充分规则
- ▶必要规则
- classification
- **▶** confidence
- sufficient rule
- necessary rule

木文作者相关文音

- ▶ 李英杰
- ▶尹怡欣

PubMed

- Article by Li,Y.J
- Article by Yun,Y.X

反馈人	邮箱地址	
反馈标题	验证码	8170

Copyright by 计算机应用