情报分析与研究

网络舆情分析中共性知识挖掘方法研究

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摘要 共性知识挖掘是网络舆情中实现领域可移植的有效途径,提出从共性情感元素、共性语言模式两方面建立共性舆情知识库。共性情感元素挖掘主要通过半自动方法识别并从训练库中学习量化权值实现动态扩展知识库;共性语言模式挖掘主要从语法、语义角度弥补句法分析引入的错误,提出三类修正模型,包括主语转移模型、极端情感动词模型与情感修饰短距离依赖模型。最后从宗教、酒店两个领域进行验证,证实共性知识挖掘在系统可移植性方面具有一定效果。

关键词： 舆情分析　共性知识挖掘　情感元素　语言结构

Abstract： The common knowledge mining is an effective way for the Internet public opinion analysis. This paper builds the common knowledge base for the common sentimental elements and the common language patterns. The common sentimental knowledge is mined by the semi-supervised method from the training corpus. This knowledge base is also quantified and dynamically expanded. The common language pattern knowledge includes three kinds of fixed models, such as transform model, extreme sentimental verb model and distance dependency model. Finally the common knowledge bases are testified in the domains of religions and hotels, and proved the effectiveness in the system implant performance.

Keywords： Public opinion analysis,　Common knowledge mining,　Sentimental element,　Language structure

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引用本文：

段建勇, 程利伟, 张梅等 .网络舆情分析中共性知识挖掘方法研究[J]　现代图书情报技术, 2013,V29(10): 59-65

Duan Jianyong, Cheng Liwei, Zhang Mei etc .The Common Knowledge Mining for the Internet Public Opinion Analysis[J] ， 2013,V29(10): 59-65

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http://www.infotech.ac.cn/CN/　或　http://www.infotech.ac.cn/CN/Y2013/V29/I10/59

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