





Record output: Detailed record ▼

NOTE: Your selected records (to a maximum of 500) will be kept until your session ends. However, to delete them after this task:

- Return to the Search results page and click Delete Selected Records, or
- Go to the Selected records page and click Remove All, or
- Click the End session link at the top of the page

-
1. Accession number: 20143118012843
Title: Applying semantic relations to construct sentiment lexicon automaticlly
Authors: Xie, Songxian¹ ; Liu, Bo¹ ; Wang, Ting¹ 
Author affiliation: ¹ College of Computer, National University of Defense Technology, Changsha 410073, China
Corresponding author: Wang, T. (tingewang@nudt.edu.cn)
Source title: Guofang Keji Daxue Xuebao/Journal of National University of Defense Technology
Abbreviated source title: Guofang Keji Daxue Xuebao
Volume: 36
Issue: 3
Issue date: June 2014
Publication year: 2014
Pages: 111-115
Language: Chinese
ISSN: 10012486
CODEN: GKDXEM
Document type: Journal article (JA)
Publisher: National University of Defense Technology
Abstract: Researches on constructing English sentiment lexicon is relatively mature, and there are abundant and reliable lexical resources. Whereas for Chinese studies, the research history is short, and there are only a few Chinese sentiment lexicon resources. With reliable English sentiment lexicon as reference, an automatic constructing approach was proposed, based on semantic relationships. Firstly the Chinese sememe and words were extracted from the defination of concepts in HowNet and the semantic analysis was carried out upon them;

secondly the sentimental value of each sememe and word was retrieved from the English sentiment lexicon SentiWordNet according to the DEF attributes of concepts in HowNet, and the final sentimental value of each word was calculated on the semantic relations of the sememe and words. The ready English lexicon was used without manual labeling in the method, and diverse information of words was recorded in the final lexicon, including semantic relations and sentimental values, which remedy the lack of other lexicons. The experimental results show that the resulted sentiment lexicon can achieve better performance in the recall and F value measurements under the condition of approaching other lexicons on the precision measurements.

Number of 18
references:

Main heading: Semantics

Controlled terms: Electrical engineering - Mechanical engineering

Uncontrolled Better performance - HowNet - Precision measurement
terms: - Semantic analysis - Semantic relations - Semantic
relationships - Sentiment analysis - Sentiment
lexicons

Classification 608 Mechanical Engineering, General - 709 Electrical
code: Engineering, General - 903.2 Information Dissemination

DOI: 10.11887/j.cn.201403020

Database: Compendex

Compilation and indexing terms, © 2014 Elsevier Inc.

Copyright © 2014 [Elsevier B.V.](#) All rights reserved.