Abstract

Every day the mass of information available, merely finding the relevant information is not the only task of automatic text classification systems. The main problem is to classify which documents are relevant and which are irrelevant. The Automated text classification consists of automatically organizing clustered data. We propose a method of automatic text classification using Convolutional Neural Network based on the disambiguation of the meaning of the word we use the WordNet ontology and word embedding algorithm to eliminate the ambiguity of words so that each word is replaced by its meaning in suitable context. The closest ancestors of the senses of all the words in a given document are selected as folders for the specified document.

References


5. Ning Li, Hui Zhang, Yong Chen, “Convolutional Neural Network with SDP-based Attention for Relation Classification” 2018 IEEE DOI 10.1109/BigComp.2018.00108


7. Ying Liu1, Peter Scheuermann2, Xingsen Li1, and Xingquan Zhu1 Using WordNet to Disambiguate Word Senses for Text Classification.


13. *

Index Terms

Computer Science Artificial Intelligence

Keywords

neural network, classification, wordsense, feature selection, model selection, WordNet.