

## Hybrid Feature Selection Method for Sentiment Classification of Movie Reviews

**Authors :** Vishnu Goyal, Basant Agarwal

**Abstract :** Sentiment analysis research provides methods for identifying the people's opinion written in blogs, reviews, social networking websites etc. Sentiment analysis is to understand what opinion people have about any given entity, object or thing. Sentiment analysis research can be broadly categorised into three types of approaches i.e. semantic orientation, machine learning and lexicon based approaches. Feature selection methods improve the performance of the machine learning algorithms by eliminating the irrelevant features. Information gain feature selection method has been considered best method for sentiment analysis; however, it has the drawback of selection of threshold. Therefore, in this paper, we propose a hybrid feature selection methods comprising of information gain and proposed feature selection method. Initially, features are selected using Information Gain (IG) and further more noisy features are eliminated using the proposed feature selection method. Experimental results show the efficiency of the proposed feature selection methods.

**Keywords :** feature selection, sentiment analysis, hybrid feature selection

**Conference Title :** ICDAMLKD 2017 : International Conference on Data Analytics, Machine Learning and Knowledge Discovery

**Conference Location :** Zurich, Switzerland

**Conference Dates :** September 15-16, 2017