

2nd International Conference on **Big Data Analysis and Data Mining**

November 30-December 01, 2015 San Antonio, USA

Domain based opinion lexicon generation for sentiment analysis of the academic resources

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Students enrolled in research based degree programs are required to learn research methodology and to contribute in the body of the knowledge. They may have to go through course work, do literature survey and present periodically the progress of their works through seminars. Out of these activities, literature survey accounts for the major part of the duration of the degree program. The most difficult part of masters or doctoral degree program course arguably understands the research paper while identifying problem area. While going through these publications, they write their notes, observations, and remarks, questions either on the same document or on the separate sheet of paper. These comments/observations may be about entire paper or part of them. These comments/observations are very valuable knowledge resource for the research community which helps in decision making to judge the quality of publications, as they are not available in electronic form and are not sharable. In this paper, we have designed and augmented an existing sentiment lexicon dictionary in the context of academic domain to provide academic community members facility to judge the quality of research articles by analyzing whether it has positive sentiments or negative sentiments. We have also developed a system which is able to identify opinionated words and phrases from the documents based on online dictionary such as WordNet. Our system provides user friendly interface to enable any member of the community to contribute in opinion lexicon generation by providing sentiment words and their polarity values.

Biography

Archana Shukla has done PhD in Computer Science Department from Motilal Nehru National Institute of technology Allahabad, India. She is currently working in the same University as a Visiting Faculty in Computer Science Department.

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