UA LITTLE ROCK

Debanjan Mahata <dxmahata@ualr.edu>

IETE Technical Review - Invitation to review Manuscript ID TITR-2015-0268.R1

1 message

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prasanna@iitg.ernet.in <prasanna@iitg.ernet.in>   Fri, Jul 10, 2015 at 6:13 AM
To: dxmahata@ualr.edu

10-Jul-2015
Dear Mrs Debanjan Mahata:

The above manuscript, entitled "Lexicon Ensemble and Lexicon Pooling for Sentiment Polarity Detection" has been submitted to IETE Technical Review.

I would be grateful if you would kindly agree to act as a reviewer for this paper. The abstract appears at the end of this letter.

Please let me know as soon as possible if you will be able to accept my invitation to review. To do this please either click the appropriate link below to automatically register your reply with our online manuscript submission and review system, or e-mail me with your reply.

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Should you accept my invitation to review this manuscript, you will be sent an email with a direct link to the scoresheet, which will be made available to you. You will then have access to the manuscript and reviewer instructions in your Reviewer Centre.

If you are unable to review the manuscript, click on the "decline" option to register your response. This will direct you to a screen where you will be given the opportunity to provide details of any alternative reviewers.

I realise that our expert reviewers greatly contribute to the high standards of the Journal, and I thank you for your present and/or future participation.

Sincerely,
Professor Prasanna
IETE Technical Review Editorial Office

MANUSCRIPT DETAILS

TITLE: Lexicon Ensemble and Lexicon Pooling for Sentiment Polarity Detection

ABSTRACT:
This paper presents our experimental work towards detecting sentiment polarity of free form texts: first by using an ensemble of sentiment lexicons and then through a lexicon pooled machine learning classifier. In the ensemble design, we combined four different sentiment lexicons in different ways to determine sentiment polarities of different text data. The ensemble approach, however, did not achieve superior performance as initially thought. Therefore, in the second design we tried to pool the sentiment lexicon knowledge into the machine learning classification process itself of a multinomial Naive Bayes classifier. The experimental designs are evaluated on three document and two sentence datasets. The lexicon pooled approach obtains superior accuracy levels as compared to standard Naive Bayes classifier as well as Lexicon-based methods. Further, as the amount of training data decreases, the accuracy levels of lexicon pooled machine learning classifier decays slowly as compared to standalone Naive Bayes classifier. The framework presented proves useful and robust and can be extended to any classification task.