

View Review

Paper ID	636
Paper Title	A Two-channel Text Sentiment Analysis Model based on Bert and BCGRU-A
Track Name	IJCNN

REVIEW QUESTIONS

1. Global Rating

Accept

2. Reviewer's confidence

It is fairly likely that I missed some details, didn't understand some central points, or can't be sure about the novelty of the work.

3. Suggested Type of Presentation

Oral

4. Level of interest for IJCNN community

Very High

5. Technical Quality

Very High

6. Novelty

High

7. Writing Style

Very Good

8. List at least 2 strong points of the paper

The Paper is well written and organized, with ideas and reasons for using LSTM and GRU in traditional RNN.

Good and clear explanations of with graphs, tables, equations, listing the score and weight of each algorithm, and reasons for using Bert and BCGRU-A.

9. List at least 2 weak points of the paper

As indicated by the authors, the model is already complex and for longer sentences, the authors suggest dividing it into subtexts, classifying each of them and then combining the results back. The computation cost and time might increase.

Missing examples from the tested data, no Relation Diagram or ER diagram.

There are minor typos / incomplete sentences, which need proofreading.

10. Comments to Authors

This paper proposes the use of improved bidirectional gated loop unit and text convolutional neural network to extract the global and local features of the text in parallel, and the global and local features enhanced by the attention mechanism. The paper shows how to optimize the work to solve the problems of polysemy and insufficient feature information extraction. Very interesting research, well written and organized paper.

Implementation details could be explained more for reproducibility of the results. It would be beneficial if the authors could make the source code available on github.

In the Global Features extraction based on ATBGRU model, the authors mention when the input text is long, important information cannot be obtained, to improve it they used attention mechanism into the update gate. The authors could discuss more on if the model can take longer texts. For eg. many Facebook comments, some comments are very huge that crosses the length of 600. In these cases, even after preprocessing the text size may reduce to 500. How does the model perform for different lengths?

11. Comments to Chairs (not visible to authors)
