

Message from The PaperCept Conference Management System

Message originated by Brian Carrington Lovell

Dear Mr. Thanh Binh Kieu,

After careful reconsideration of reviewers scores, we are pleased to inform you that the paper

Submission number: 1161

Title: Learning Neural Textual Representations for Citation Recommendation

Authors: Thanh Binh Kieu\*, Inigo Jauregi Unanue, Son Bao Pham, Xuan-Hieu Phan, M. Piccardi

you have submitted to ICPR 2020 has been ACCEPTED for presentation and inclusion in the proceedings. The type of presentation (Oral/Poster) will be decided after the outcome of the second round papers (around mid September 2020).

Attached to this e-mail message you will find the reviews that were received for your manuscript together with a report from the Area chair in charge of your submission.

To upload the camera ready version of the manuscript, the corresponding author must log in to the submission site, enter the workspace as author and follow the action link. Only the corresponding author is able to do this. No changes are allowed to the version approved.

We will need to receive the camera ready version for proceedings by October 15, 2020.

Please note that at least one of the authors must register for the conference paying regular registration fees (not student fee) before submitting the camera-ready copy of his/her manuscript(s). Papers submitted without registration will not be included in the conference program or in the proceedings. Instructions for registration will be given on the conference webpage in the following weeks.

According to IAPR's policy, should an author have more than one paper accepted, only one registration is required for publication although other authors are encouraged to register and participate in the conference. A regular registration can cover up to three papers for publication.

Sincerely,

Kim Boyer  
Brian Lovell  
Marcello Pelillo  
Nicu Sebe  
Rene Vidal  
Jingyi Yu

Program Chairs, ICPR2020

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Decision: Accepted as Contributed paper.

Final submission deadline October 15, 2020.

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REVISED PAPERS SUBMISSION INFORMATION

You are invited to submit your ICPR 2020 Revised papers

--Go to the submission wizard start page

<https://iapr.papercept.net/conferences/scripts/submissionwizard.pl?ConfID=21>

and follow the initial submission link for Revised papers

--When requested enter this 10-CHARACTER SUBMISSION CODE to continue:

11619be65c

--Only the corresponding author Thanh Binh Kieu (42400) may complete the submission

--Alternatively, the corresponding author may log in at

<https://iapr.papercept.net/conferences/scripts/start.pl>,

enter the author workspace for ICPR 2020 and follow the action link provided for submission 1161.

No submission code is required in this case

--The submission deadline for Revised papers is June 20, 2020

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Submission information

Authors and title:

Thanh Binh Kieu\*, Inigo Jauregi Unanue, Son Bao Pham, Xuan-Hieu Phan, M. Piccardi

Learning Neural Textual Representations for Citation Recommendation

Conference: 2020 25th International Conference on Pattern Recognition.

Current status: Accepted.

Submission number: 1161.

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To access your workspace please log in at

<https://iapr.papercept.net/conferences/scripts/start.pl> using your PIN 42400 and password

To see this decision message and the reviews (if any) choose the appropriate option under "Choose an option..." for this submission in your ICPR 2020 author workspace

If you do not have your password then follow the link

<https://iapr.papercept.net/conferences/scripts/pinwizard.pl> to retrieve it

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Comments to author (Associate Editor)

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As outlined by one reviewer, a comparison with other approaches on the same database is missing.

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Comments on Supplementary material:

[None found]

Reviewer 1 of ICPR 2020 submission 1161

Comments to the author

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This paper propose an interesting approach for citation recommendation.

The proposed method is based on a deep representation of the documents (Sentence Bert) .

The authors use the Sentence-Bert combined with a Siamese (or triplet) networks.

The document is well-written. The authors detailed clearly each step of the method.

Especially the fundamentals concepts of the citation recommendation.

About document selection, unlike traditional approach, the authors frame the selection of

the documents as the maximization of a submodular scoring function. The authors choose to use a monotone submodular function, but the justification of their choice is not clear for me.

In their work the author seems to have chosen the Sentence-Bert model to increase the speed of the processing. But they also mention the use of DistilBert.

The reason is not clear. Could you explain your strategy by combining both ?

In Table one, DistilBert is mentioned as pre-trained model on which corpus this model has been train ?

Please correct the following typo :

In section III, subsection 2

"The IDF factor is used TO TO weigh ..." => Remove one "TO"

Reviewer 2 of ICPR 2020 submission 1161

Comments to the author

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This paper proposes an approach to citation recommendation which leverages a deep sequential representation of the documents (Sentence-BERT) in a submodular scoring function. The results carried out using a popular benchmark dataset show that the proposed approach outperforms all the compared approaches (baselines and a state-of-the-art approach).

1. The Fig.1-2 are not referenced in the manuscript.
2. Please explain how to compute  $r_{ij}$  in Eq(6).
3. When I search for citations for a query document, the titles, key words and abstract often are used. I wonder if it can improve results to use only titles, key words and abstract to obtain feature vectors to measure the similarity.

Reviewer 3 of ICPR 2020 submission 1161

Comments to the author

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The paper presents a citation recommendation system. This is an interesting and relevant topic for the conference.

The system proposed in the paper encodes each document with the Sentence-BERT approach. This encoding is fine-tuned with both positive and negative document examples. Finally, the recommendation list is performed using a submodular scoring function. Although all the approaches and techniques used on the paper have been previously published, the novelty of the paper is that is the first time that these techniques have been combined to be used in citation recommendation.

Some experiments have been carried out with the AAN dataset, and the obtained results improve the results obtained with comparable approaches. However, all the results in the paper seem to be computed by the authors. It would be interesting to see results published in other papers with the same database.