Fwd: Decision on your Submission - JSSOFTWARE-D-23-00013

2 messages

Maliha Noushin Raida, Lecturer, CSE <malihanoushin@iut-dhaka.edu>   Fri, Apr 28, 2023 at 11:03 AM
To: "Md. Jubair Ibna Mostafa" <jubair@iut-dhaka.edu>, nazmul.haque@iut-dhaka.edu

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From: **Zannatun Naim Sristy, Lecturer, CSE** <zannatunnaim@iut-dhaka.edu>
Date: Thu, Apr 27, 2023, 9:30 AM
Subject: Fwd: Decision on your Submission - JSSOFTWARE-D-23-00013
To: Maliha Noushin Raida, Lecturer, CSE <malihanoushin@iut-dhaka.edu>, Nawshin Ulfat, 170042081
<nawshinulfat@iut-dhaka.edu>, Sheikh Moonwara Anjum Monisha, 170042057 <moonwaraanjum@iut-dhaka.edu>

---------- Forwarded message ---------
From: **Journal of Systems and Software** <em@editorialmanager.com>
Date: Wed, Apr 26, 2023 at 6:13 PM
Subject: Decision on your Submission - JSSOFTWARE-D-23-00013
To: Zannatun Sristy <zannatunnaim@iut-dhaka.edu>

Ms. Ref. No.: JSSOFTWARE-D-23-00013
Title: A Study on Classifying Stack Overflow Questions based on Difficulty by Utilizing Contextual Features
The Journal of Systems & Software

Dear Zsristy Zannatun Sristy,

Reviewers have now commented on your paper. You will see that they are advising that you revise your manuscript. If
you are prepared to undertake the work required, I would be pleased to reconsider my decision. Please submit the
revised version of your manuscript by May 26, 2023. If you want more time for revising, please don't hesitate to contact
me.

For your guidance, reviewers' comments are appended below.

If you decide to revise the work, please submit a list of changes or a rebuttal against each point which is being raised
when you submit the revised manuscript. Please use a different font color for changed text in your revised manuscript.

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Yours sincerely,

Raffaela Mirandola, PhD
Special Issue Managing Guest Editor
The Journal of Systems & Software

Reviewers' comments:

Dear authors,

Thank you for your promising submission to our special issue!

The reviewers had several constructive remarks, which we would like you to address in a major revision.

Please, pay special attention to the following points raised by the reviewers:
- Please clarify if and to what extent the paper is an extension of previous work. You addressed this in you cover letter. However, one of our reviewers still was unsure about that. Make sure that paper and cover-letter are consistent with regard to that information.
- The introduction needs rework
- Details of the research method, e.g. labeling, need to be added
- Results and implications need to be better exaplained

Kind regards
Regina and Andreas

Reviewer #1: The paper "A Study on Classifying Stack Overflow Questions based on Difficulty by Utilizing Contextual Features" uses the Stack Overflow in order to identify question difficulty level using textual information. The topic of the study is interesting and relevant with the journal, however, it is not clear from the paper what is the main lessons learnt, and how the results could be used in practice. In other words, I am not sure about the motivation of your study and what I would do if I was a practitioner.
* Introduction: I believe that this section is very long, lacks of a clear motivation and needs to re-organize. Also, there are information that I expected to see in the Related Work Section and not in Introduction section or at least the authors could describe the other similar works shortly and in more details in the RW section (e.g. what other works have done and what is the main difference with your study). Additionally, how have you selected the three categories (a priory, pre-hoc, post-hoc)? Do you have a reference for this? Also, you could provide a reference for this sentence "Another major concern is the growth of knowledge shared in SO, as 30% of the total questions remain unanswered". Moreover, I would suggest to explain better the difference between a priori feature and a pre-hoc feature. In the main contributions, the authors said that the models that they have selected will be compared with another one. Please write which is the other model. I will suggest in order to decrease the length of the introduction, you could skip the RQs from there and move to the section 4 that describes the evaluation of your approach. Therefore, I suggest to enhance the introduction, so as to explain why the authors have perused this study and, what are the expected usage scenarios of the results in practice.
* In section Related Work you could present a table with the main differences compared with your work with the others.
* Methodology: I believe that you could update your dataset using recently posts (in the paper you said that "the whole data dump consists of posts from 2012 to 2017"). Additionally, why you have compared your approach with the SOQDE approach?
* Implications for practitioners: I expected to see an illustrative example here in order the stakeholders understand the process that need to follow.

Reviewer #2: In this paper, the authors tried three models, TF-IDF, LDA, and Doc2Vec, to extract semantic and context-dependent features that can measure the difficulty of questions in Stack Overflow.

The paper is promising, but I think some aspects need to be clarified. My comments are in the following.

First, If I correctly understood, this paper is an extension, but it is not clear which is the material extended from this paper. So please clarify it.

The part about labeling is unclear. The iteration are not well explained. An example can help. Moreover, how many instances have been labeled for each investigator? What was the rationale behind the labeling? Can you please upload the annotation of the process in the appendix? The Cohen Kappa is just for one iteration?

The rationale for the configuration of MLS is unclear—the choice behind classifiers too.

The results of the performance need to be explained from a technical perspective. A comparison with a technical explanation and an example should be provided if you show different performances.

Implications should be better explained and clarified. Can you provide real examples and scenarios? Moreover, how these levels of difficulty can help? Because the discussion about trust and reliability it is something that the research community has already investigated.

Please provide the appendix of the study.

%ATTACH_FOR_REVIEWER_DEEP_LINK INSTRUCTIONS%