



NATIONAL UNIVERSITY
OF SINGAPORE

Van-Hoang Nguyen, Mr

May 2, 2019

Van-Hoang Nguyen
School of Computing
13 Computing Drive
Singapore 117417
Phone: (+65) 8306-8667
E-mail: vhnguyen@u.nus.edu

Dear Sir or Madam,

We are writing this cover letter for our JBMS submission to give a detailed explanation on how we addressed the major comments from LOUHI reviewers as well as how we have extended our work with respect to the LOUHI manuscript.

Firstly, reviewer 1 mentioned that he or she “did not understand completely how this user reliability score is calculated” and “more details should be given for readers to make use of this method”. Reviewer 2 also mentioned that he or she “could not find in this paper how the user credibility/expertise scores are actually calculated”. We have addressed this by describing our definition of user credibility and discussing the intuition behind our design of credibility weighted thread encoding under “**Thread Content Encoding with Credibility Weights**” in “**4. Proposed Method**” section. We also include “**Appendix**” section for a comprehensive mathematical derivation on how the user credibility is updated based on the prediction of each sample, and prove that the mathematics behind our design is consistent with our definition of credibility.

Secondly, a comment from reviewer 2 suggests us to “discuss to which extent user credibility might not be modelled correctly, and the likelihood or effect that ‘failed’ reliability occurs”. We realized the importance of discussing the limitations of our definition and representation of weights, and have incorporated them into a paragraph in “**User Credibility Analysis**” section.

Thirdly, we extended our work with an analysis of our model’s learned user credibility in “**User Credibility Analysis**” in “**6. Results and Evaluation**” section. We show that not only our user credibility learning mechanism fits the general truth discovery notion, but also its value is representative of the trustworthiness notion. The computed credibility correlates with trustworthiness indicators such as high community interaction, and assists the model in making correct predictions.

Sincerely,

Van-Hoang Nguyen, Mr