

Panel Review of 3c

October 7, 2019

Five Review Elements:

The following elements should be considered in the review for both criteria:

1. What is the potential for the proposed activity to:
 - (a) advance knowledge and understanding within its own field or across different fields (Intellectual Merit); and
 - (b) benefit society or advance desired societal outcomes (Broader Impacts)?
2. To what extent do the proposed activities suggest and explore creative, original, or potentially transformative concepts?
3. Is the plan for carrying out the proposed activities well-reasoned, well-organized, and based on a sound rationale? Does the plan incorporate a mechanism to assess success?
4. How well qualified is the individual, team, or institution to conduct the proposed activities?
5. Are there adequate resources available to the PI (either at the home institution or through collaborations) to carry out the proposed activities?

Purpose of Proposal:

The author proposes to improve upon sequence alignment pipelines that reduce runtime. A heuristic version of the in-situ Forward-Backward algorithm will be used in the process of extracting class probabilities.

Intellectual Merit

The work would improve upon the run-time bounds of an existing model.

Broader Impacts

This work would allow researches to conduct their work in a more timely fashion.

Recap of main points

See the points made under the previous sections.