Hybrid Intelligence Perspective Mining for Online Deliberation

LIACS — Leiden Institute of Advanced Computer Science
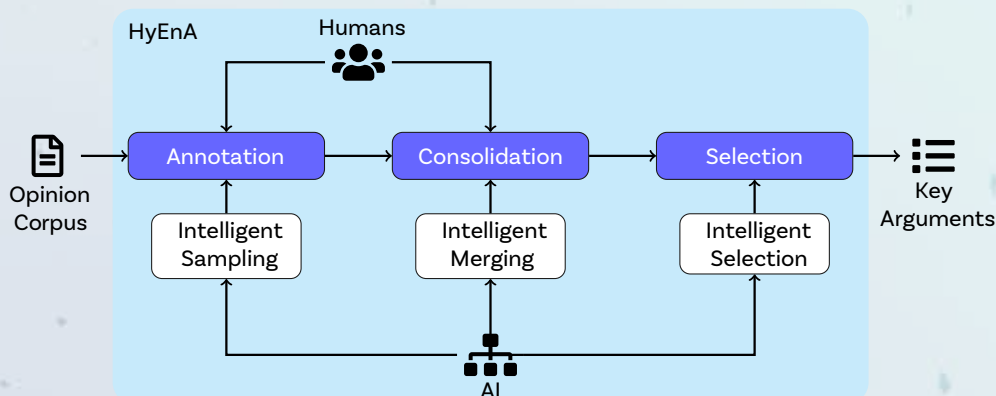
Michiel van der Meer

Background

What aspects do current online deliberation platforms focus on?

- Focus on automatic facilitation and argumentation
- Discursive (social) aspects still missing
- Same for inclusiveness and diversity
- Same for value-based reasoning
- Large amount of data is already being generated, but we lack the methods to understand it

HI for Arguments

Make a hybrid approach for extracting arguments to see if we can improve on
1) scale
2) diversity

Disagreements and values

Disagreements are common in online discussions, and foster collaboration. Although there exist methods for recognizing disagreement, a deeper understanding of factors that influence disagreement is lacking in the literature.

We investigated a hypothesis that differences in personal values are indicative of disagreement in online discussions. We find that the dissimilarity of value profiles correlates with disagreement only in specific cases. Furthermore, including value information in agreement prediction improves performance.

Conclusions

Arguments and disagreements are at the core of deliberation. We showed how Hybrid intelligence can make an impact for measuring arguments, or how taking an HI-perspective on the underlying motivations of participants can reveal further insights into the dynamics of online deliberation.