



Summarizing debates on large scale

Motivation

Argumentation Mining deals with the automatic extraction of argumentative structures from natural text. Given the recent advances in this field, we are able to identify large numbers of arguments supporting or opposing a controversial topic (e.g. “nuclear energy”). To make this information digestible for users, we would like to aggregate the arguments by grouping similar arguments together and present the most prominent ones to the user.

Task Description

- develop an approach for summarizing argumentative texts
- compare unsupervised and supervised methods and evaluate on existing annotated corpora
- conduct a user study to assess the qualitative performance of your approaches



References

- „Cross-topic Argument Mining from Heterogeneous Sources” by C. Stab, T. Miller, B. Schiller et al. (EMNLP 2018)
- “Classification and Clustering of Arguments with Contextualized Word Embeddings” by N. Reimers, B. Schiller, T. Beck, J. Daxenberger et al. (ACL 2019)
- “ArgumenText: Searching for Arguments in Heterogeneous Sources” by C. Stab, J. Daxenberger, C. Stahlhut, T. Miller, B. Schiller, C. Tauchmann, S. Eger, I. Gurevych (NAACL 2018)

Contact

Analysis



Programming



Literature



Prof. Dr. Iryna Gurevych

M.Sc. Tilman Beck

thesis@ukp.informatik.tu-darmstadt.de