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Call for Bachelor/Master Thesis “Literature Survey on News Bias Detection”

What is the topic?

This Bachelor/Master thesis is about summarizing the approaches and data sets published for the task of news bias detection.

News bias detection describes the task of given a news article text, decide whether it follows a hyperpartisan argumentation, i.e., whether it exhibits blind, prejudiced, or unreasoning allegiance to one party, faction, cause, or person [1,2]. In recent years, hyperpartisan news detection, which we consider synonymous to news bias detection, has attracted the interest of researchers and various approaches for news bias detection have been developed. The definition of bias and the task set-up of identifying biased news articles differs from authors to authors. For instance, authors might consider the bias in terms of the writing style, while others might consider it in relation to fact selection.

In this thesis, the student will systematically collect scientific publications on the topic and classify the approaches and data sets based on several dimensions. More details about the procedure and about the dimensions will be provided in a first meeting.

What prerequisites do you need?

- Interest in bias detection, argumentation mining, stance detection, text mining, ...
- Basic understanding of machine learning methods.

It is recommended to write this thesis in English so that it can serve as a basis for a scientific publication afterwards (written by the student and the supervisor).

[1] <https://pan.webis.de/semEval19/semEval19-web/>

[2] https://webis.de/downloads/publications/papers/stein_2018h.pdf

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