BeyondFacts'23: 3rd International Workshop on Knowledge Graphs for Online Discourse Analysis

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WORKSHOP SCOPE

Expressing opinions and interacting with others on the Web has led to the production of an abundance of online discourse data, such as claims and viewpoints on controversial topics, their sources and contexts (events, entities). This data constitutes a valuable source of insights for studies into mis- and dis-information spread, bias reinforcement, echo chambers, or political agenda setting.

While knowledge graphs (KGs) promise to provide the key to a Web of structured information, they are mainly focused on facts without keeping track of the diversity, connection or temporal evolution of online discourse. As opposed to facts, claims are inherently more complex. Their interpretation strongly depends on the context and a variety of intentional or unintended meanings, where terminology and conceptual understanding strongly diverge across communities from computational social science and journalism, to argumentation mining, stance detection, or computational fact-checking.

This workshop aims at strengthening the relations between these communities, providing a forum for shared works on the modeling, extraction and analysis of discourse on the Web. It will address the need for a shared understanding and structured knowledge about discourse data in order to enable machine-interpretation, discoverability and reuse, in support of scientific or journalistic studies into the analysis of societal debates on the Web.

Beyond research into information and knowledge extraction, data consolidation and modeling for KG building, the workshop targets communities focusing on the analysis of online discourse, relying on methods from machine learning, natural language processing and Web data mining. These include communities on discourse analysis and social web mining, computational fact-checking, mis- and dis-information spread, bias and controversy detection and analysis, stance/viewpoint detection and opinion mining, rumour, propaganda and hate-speech detection, argumentation mining, computational journalism.

BeyondFacts provides a meeting point for these related but distinct communities that address similar or closely related questions from different perspectives, using different models and definitions of the main involved notions. The topics of interest include:

- Ontologies and data models for online discourse data
- Computational fact-checking / truth discovery
- Computational journalism
- Social, ethical and legal aspects of online discourse
- Bias and controversy detection and analysis
- Stance and viewpoint discovery
- Rumour, propaganda and hate-speech detection
- Intent discovery for claims
- Interpretability & explainability of online discourse analyses
- Integration, aggregation and enrichment of discourse data
- Multilingual analysis of online discourse data
- Semantic and exploratory search of online discourse data
- Argumentation and reasoning over online discourse
- Recommender systems for discourse data
- Quality, uncertainty, provenance, and trust of discourse data
- Benchmarks and training data for extraction, verification or linking of discourse data
- Use-cases, applications and cross-community interfaces

Previous Editions. The BeyondFacts 2021[1] [1] and 2022[2] [2] workshops took place as virtual events (due to the COVID-19 pandemic) jointly with the 30th and 31st Web Conferences, respectively.

REFERENCES

[1] Konstantin Todorov, Pavlos Fafalios, and Stefan Dietze. 2021. Beyond Facts: Online Discourse and Knowledge Graphs. In *CEUR Workshop Proceedings*, Vol. 2877.
[2] Konstantin Todorov, Pavlos Fafalios, and Stefan Dietze. 2022. BeyondFacts' 22: 2nd International Workshop on Knowledge Graphs for Online Discourse Analysis. In *Companion Proceedings of the Web Conference 2022*. 423–425.

[1]https://knod2021.wordpress.com/
[2]https://knod22.wordpress.com/