

Knowledge Graph Representation for Political Information Sources

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Abstract

With the rise of computational social science, many scholars utilize data analysis and natural language processing tools to analyze social media, news articles, and other accessible data sources for examining political and social discourse. Particularly, the study of the emergence of echo-chambers due to the dissemination of specific information has become a topic of interest in mixed methods research areas. In this paper, we analyze data collected from two news portals, Breitbart News (BN) and New York Times (NYT) to prove the hypothesis that the formation of echo-chambers can be partially explained on the level of an individual information consumption rather than a collective topology of individuals' social networks. Our research findings are presented through knowledge graphs, utilizing a dataset spanning 11.5 years gathered from BN and NYT media portals. We demonstrate that the application of knowledge representation techniques to the aforementioned news streams highlights, contrary to common assumptions, shows relative "internal" neutrality of both sources and polarizing attitude towards a small fraction of entities. Additionally, we argue that such characteristics in information sources lead to fundamental disparities in audience worldviews, potentially acting as a catalyst for the formation of echo-chambers.

Keywords: echo chambers, computational social science, knowledge representation

1. Introduction

A knowledge graph, also known as a semantic network, was initially introduced by C. Hoede and F.N. Stokman as a tool for representing the content of medical and sociological texts (Nurdlati and Hoede, 2008). Constructing increasingly larger graphs with the intent of accumulating knowledge was initially deemed to provide a resultant structure capable of operating as an expert system proficient in investigating causes and computing the consequences of certain decisions.

The concept of knowledge graph co-evolved with the rise of computational social science (Conte et al., 2012) and digital data analysis methods (Rogers, 2013). Access to open sources on the Internet has facilitated the measurement of the dynamics of political debates (Neuman et al., 2014). Platforms like Twitter and other microblogging services are widely utilized for studying and modeling social and political discourse (Graham et al., 2016).

to understand the data being used" (Kastellec and Leonl, 2007). Additionally, (Abu-Salih and Beheshti, 2021) explains that knowledge graphs serve as indispensable frameworks that underpin intelligent systems. This is achieved by extracting subtle semantic nuances from textual data sourced from a range of vocabularies and semantic repositories. In the past decade, there has been a notable increase in the examination of political discourse within social content in such a way. The authors discuss in detail the connection between political discussions and the language used in them (Chilton, 2004), (Parker, 2014). Furthermore, the literature examines opinion polarization (Banisch and Olbrich, 2019), attempts to characterize an intuition of the dynamics of the political debate (Yamshchikov and Rezagholi, 2019), and provides techniques for estimating them (Merz et al., 2016), (Subramanian et al., 2017), (Glavač et al., 2017), (Subramanian et al., 2018) or (Rasov et al., 2020). The extensively employed data sources in studies

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