

Introduction

Fake News Detection

- As "a news article that is intentionally and verifiably false", fake news content often contains textual and visual information.
- Existing content-based fake news detection methods either solely consider textual information or combine both types of data ignoring the relationship (similarity).
- The values in understanding such relationship (similarity) for predicting fake news are two-fold.

Introduction

Relationship (similarity) for predicting fake news

- To attract public attention, some fake news stories (or news stories with low-credibility) prefer to use dramatic, humorous (facetious), and tempting images whose content is far from the actual content within the news text.
- When a fake news article tells a story with fictional scenarios or statement, it's difficult to find both pertinent and non-manipulated images to match these fictions
- Hence a "gap" exists between the textual and visual information of fake news when creators use non-manipulated images to support non-factual scenarios or statements.