Introduction

Automated claim verification and fake news detection

- Some approaches rely on linguistic features, source domain and speaker information.
  - Domain name, page rank and author of the claim.
- Misinformation is very difficult to detect even for critical human readers.
  - It's not hard to write high quality news articles conveying false facts.
  - Since these articles are written by humans, it's hard to come up with a specific set of features to verify their truthfulness.
- While these features boost the recall of detecting false claims, they result in poor precision since all news articles from a specific website tend to be classified as true or false.

Introduction

Other recent works

- Consider temporal patterns of the response received for news articles and model them using deep neural networks such as LSTM.
- These works do not consider the news article contents rather only focus on the textual content of the reactions.
- Models to jointly consider the textual content of the news article as well as the textual social media reactions to detect the false claims are limited in the literature.