# OSoMe: The IUNI Observatory on Social Media

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#### **Motivation and Goals**

- Provide researchers in the social, behavioral, and economic sciences access to the social media data that has become increasingly important to the study of social phenomena.
- Address limitations in access to data, including technical challenges, privacy issues and usability.
- Facilitate multi-disciplinary collaborations among computer scientists, physicists, journalists, political scientists, and sociologists.
- Provide data to study correlations between online and offline events, understand how social media can be abused to manipulate public opinion.

### **About IUNI and OSoMe**

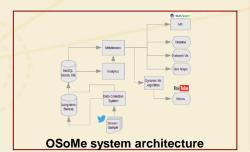
The IU Network Science Institute (IUNI) fosters groundbreaking research advances in network science across many domains.

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### Results

- The Observatory on Social Media (OSoMe) provides a Terabyte-scale historical and ongoing collection of approximately 70 billion public tweets.
- Utilizes the Apache Big Data Stack framework, with locally developed enhancements such as the IndexedHBase module.
- Tools have been made publicly available, including web-based analysis and visualization tools and an API for more advanced data needs.
- Findings published as:

  Davis et al. (2016) OSoMe: the IUNI observatory on social media. PeerJ Computer Science 2:e87



## **Examples of OSoMe Tools Available Online**

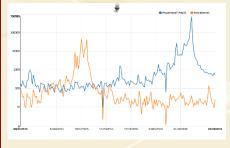


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http://osome.iuni.iu.edu/tools

Animations of hashtag networks



Trends in hashtag usage



Fully interactive network graphs



