

Finding Relevant Tweets for News

Recommending news articles based on tweets is an interesting research task [1,2]. We would like to investigate a highly related task: the recommendation of tweets based on news articles. Instead of looking only at Twitter to find news [3] we start from a given news article and try to find opinions, statements, related information in tweets. Because Twitter is a real-time system, finding related tweets for a given news article needs to be done in an online fashion. Thus new methods to find relevant tweets need to be developed. Therefore a suitable, efficient representation of the textual content together with a fast similarity measure is crucial. Two use cases for such a system can be envisioned:

- A common user might want to see the reaction of other users related to a news article (event). This can be seen as personalized recommendation of tweets given an article (and maybe the user's context).
- A journalist might be interested in the response to an article in Twitter. This can be seen as an analysis of the Twitter space.



Steps

- a) Collect news articles (crawl news site, remove boilerplate, store full text)
- b) Collect potentially relevant tweets using the Twitter API
- c) Identify a suitable way to represent articles and tweets
- d) Develop an algorithm to find tweets for a given article
- e) Evaluate the approach
- f) Write and submit a paper to an international conference

Contact

Ralf.Krestel@hpi.uni-potsdam.de, Gjergji.Kasneci@hpi.uni-potsdam.de

References

- [1] Owen Phelan, Kevin McCarthy, and Barry Smyth. 2009. Using twitter to recommend real-time topical news. In Proceedings of the third ACM conference on Recommender systems (RecSys '09).
- [2] Abel, Fabian, Qi Gao, Geert-Jan Houben, and Ke Tao. 2011. Analyzing User Modeling on Twitter for Personalized News Recommendations. In User Modeling, Adaption and Personalization, Lecture Notes in Computer Science 6787.
- [3] Jagan Sankaranarayanan, Hanan Samet, Benjamin E. Teitler, Michael D. Lieberman, and Jon Sperling. 2009. TwitterStand: news in tweets. In Proceedings of the 17th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (GIS '09).