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 boiler-plate, 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

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References