Pattern Mining & Social Network Analysis

Personal Work

Pascale Kuntz

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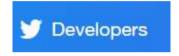
Analyze a Twitter conversation

- Define a Twitter conversation
 (e.g. « retweet » between two tweets ; « reply » between two individuals)
- Extract a set of tweets on a chosen subject (from a given tweet or a hashtag)
- Build the graph which models a conversation
- Analyze the structure of the graph
- Write a report (10 pages)



Analyzing a Twitter conversation

Tweet attributes: Tweet text Unique tweet ID Date and time tweet was posted† UTC offset (from GMT) User's location User ID Date and time user's account was created User's current follower count User's current friends count User's total number of tweets In-reply-to tweet ID* Retweet (Y/N)



Use Twitter API's: API REST, API Streaming

P. Cogan, M. Andrews, M. Bradonijc, W.S. Kennedy, A. Sala, G. Tucci (2012). Reconstruction and analysis of Twitter conversation graphs. In *Proc. of the 1st ACM Int. workshop on Hot Topcs on Interdisciplinary Social Networks Research*, pp. 25-31.

B.A. Mathew, T. Chakraborty, N. Ganguly, S. Datta (2016). Mining twitter conversation around e-commerce Promotional events, In *Proc. of the 19th ACM Conf. on Computer Supported Cooperative Work and Social Computing Companion*, pp. 345-348