Temporal Reasoning on Twitter Stream using Semantic Web Technologies

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University of Dublin, Trinity College, 2014

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Social media is gradually becoming an important source of knowledge. For example, Twitter, one of the largest social networks for people to share things and catch up with friends, contains enough information generated by millions of users all around the world.

We can take advantages of Twitter data and semantic web technologies to discover potential trends in varieties of industries and much much more.

In this project, we present a novel approach to perform temporal reasoning on real time Twitter stream using Semantic Web Technologies so that we could derive more valuable information from time dimension data on Twitter. Moreover, in order to deal with such high-frequency data, several filter mechanisms have also been implemented to, significantly, improve the performance of the reasoning process.