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Topic Sketch: Real-Time Bursty Topic Detection

From Twitter

ABSTRACT

Twitter has become one of the largest microblogging platforms for users around the world to share anything happening around them with friends and beyond. A bursty topic in Twitter is one that triggers a surge of relevant tweets within a short period of time, which often reflects important events of mass interest. How to leverage Twitter for early detection of bursty topics has therefore become an important research problem with immense practical value. Despite the wealth of research work on topic modelling and analysis in Twitter, it remains a challenge to detect bursty topics in real-time. As existing methods can hardly scale to handle the task with the tweet stream in real-time, we propose in this paper TopicSketch, a sketch-based topic model together with a set of techniques to achieve real-time detection. We evaluate our solution on a tweet stream with over 30 million tweets. Our experiment results show both efficiency and effectiveness of our approach. Especially it is also demonstrated that TopicSketch on a single machine can potentially handle hundreds of millions tweets per day, which is on the same scale of the total number of daily tweets in Twitter, and present bursty events in finer-granularity.

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EXISTING SYSTEM

Twitter has become one of the largest information portals that provides an easy, quick and reliable platform for users to share anything happening around them with friends and other followers. In particular, it has been observed that, in certain life-critical disasters, Twitter is the most important and timely source from which people find out and track the breaking news before any mainstream media picks up on them and rebroadcast the footage. As only bursty words are captured, the represented bursty topic is far from informative to reflect what the topic really is relevant tweets bursty topics..

DISADVANTAGES

- Despite the wealth of research work on topic modelling and analysis in Twitter, it remains a challenge to detect bursty topics in real-time.
- hardly scale to handle the task with the tweet stream in real-time, we propose in this paper TopicSketch, a sketch-based topic model together with a set of techniques to achieve real-time detection.

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PROPOSED SYSTEM

Topic Sketch a framework for real-time detection of bursty topics from Twitter. Due to the huge volume of tweet stream, existing topic models can hardly scale to data of such sizes for real-time topic modeling tasks. We developed a “sketch of topic”, which provides a “snapshot” of the current tweet stream and can be updated efficiently. Once burst detection is triggered, bursty topics can be inferred from the sketch efficiently. Compared with existing event detection system, from a different perspective – the “accelerations of topics”, our solution can detect bursty topics in real-time, and present them in finer-granularity.

ADVANTAGES

- Experiment results show both efficiency and effectiveness of our approach.
- More sophisticated sketch structure, which captures not only the information of word pairs.
- More effective inference algorithm, i.e. tensor decomposition, which is an important contribution and more comprehensive evaluations.

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SYSTEM REQUIREMENTS:

HARDWARE REQUIREMENTS:

- System : Pentium IV 2.4 GHz.
- Hard Disk : 40 GB.
- Floppy Drive : 1.44 Mb.
- Monitor : 15 VGA Color.
- Mouse : Logitech.
- Ram : 512 Mb.

SOFTWARE REQUIREMENTS:

- Operating system : Windows XP/7.
- Coding Language : ASP.net, C#.net
- Tool : Visual Studio 2010
- Database : SQL SERVER 2008

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