Introduction of literature review

by Tong Mu

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Literature Review

Analyzing the data in online social networks draw attention in the past few years according to the g[illegible]evelopment of social medias, such as Twitter, Facebook, and YouTube. A great number of people use these social media to communicate with people, so the data generated from these social media are of great value since these data has useful information after anal[illegible]ample, some companies can analyze the opinions from their customers to get ideas about their products or services; Markets can analyze their selling data and customer profiles to identify the market trend or provide personal advertisements; therefore, analyzing these data could be extremely important for [illegible]scientist.

Event detection is one of these applications. Briefly speaking, event detection is the problem of automatically identifying significant incidents by analyzing social media data, such events could be a concert or an earthquake [1]. There are different types for event detection, such as planned, unplanned, breaking news, global, local, and entity [1]. What we are focused is local event detectio

Detecting local events is an important task ranging from disaster control to crime monitoring [2]. A team [2] from Dept. of Computer Science, University of Illinois, has developed a method, called TrioVecEvent, for embedding-based online local

event detection in Geo-Tagged Tweet Streams, but there are some challenges that largely limit the performance of existing methods.

What we are focused is the way of embedding. The method they used is to consider each keyword as an independent item, but can we use a better way of embedding such as doc2vec [3] or sent2vec [4] to embed a tweet, so that semantically similar tweets will also end up close in the vector space.

In the rest of sections, we will introduce doc2vec and sent2vec in details, or we can find other better ways of embedding.

References

[1] Panagiotou, N., Katakis, I., & Gunopulos, D. (2016). Detecting events in online social networks: Definitions, trends and challenges. In *Solving Large Scale Learning Tasks. Challenges and Algorithms* (pp. 42-84). Springer, Cham.

[2] Zhang, C., Liu, L., Lei, D., Yuan, Q., Zhuang, H., Hanratty, T., & Han, J. (2017, August). Triovecevent: Embedding-based online local event detection in geo-tagged tweet streams. In Proceedings of the 23rd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (pp. 595-604). ACM.

[3] Le, Q., & Mikolov, T. (2014, January). Distributed representations of sentences and documents. In *International conference on machine learning* (pp. 1188-1196).

[4] Pagliardini, M., Gupta, P., & Jaggi, M. (2017). Unsupervised learning of sentence embeddings using compositional n-gram features. *arXiv preprint arXiv:1703.02507*.

Introduction of literature review

ORIGINALITY REPORT

22%	8%	22%	6%
SIMILARITY INDEX	INTERNET SOURCES	PUBLICATIONS	STUDENT PAPERS

PRIMARY SOURCES

1	Chao Zhang, Liyuan Liu, Dongming Lei, Quan Yuan, Honglei Zhuang, Tim Hanratty, Jiawei Han. "TrioVecEvent", Proceedings of the 23rd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining - KDD '17, 2017 Publication	10%
2	Nikolaos Panagiotou, Ioannis Katakis, Dimitrios Gunopulos. "Chapter 2 Detecting Events in Online Social Networks: Definitions, Trends and Challenges", Springer Nature, 2016 Publication	7%
3	chaozhang.org Internet Source	4%
4	"Database Systems for Advanced Applications", Springer Science and Business Media LLC, 2018 Publication	2%

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GRADEMARK REPORT

FINAL GRADE

0/0

GENERAL COMMENTS

Instructor

PAGE 1

QM

Spelling and grammar

Ensure all spelling and grammar is correct.

QM

citation needed

This is a significant claim for which you have not provided support from published literature.

Comment 1

Usually best to start with an example that shows general principles, rather than set it at the end

Comment 2

Why?

Comment 3

NB: event detection means different things in other areas of CS - e.g. event based systems. Show that you know this.

Comment 4

Why?

PAGE 2

Comment 5

OK - this is an example system, but is it typical? Unusual? Set the bigger scene for the non-expert.

Comment 6

Why? And what does this mean?

Comment 7

better in what way?

QM

Not peer reviewed

Not peer reviewed - ensure the full details of any publication are given. You are welcome to cite material that has not been peer reviewed, but it will not count towards the final number of references you are required to have.

GRADING FORM: INDICATIVE FEEDBACK, RM

TONG MU	0

SYNTHESIS

In this except it's hard to judge, but this looks a promising start. Remember to show common themes and ideas.

ANALYSIS

See above.

LITERATURE SELECTION

Ensure references are complete and peer reviewed.

QUALITY OF WRITING

This needs a grammar check, but parts are very good. Keep proof reading regularly.

STRUCTURE AND AUDIENCE

Fair, but please explain terminology properly when using it; this is often very easy and shows you know your stuff