

Text Mining for Hidden Relations and Trending

C. Vic Hu
vic@cvhu.org

Ali Unwala
aliunwala@gmail.com

Abstract—

I. INTRODUCTION

II. PROBLEM DEFINITION AND ALGORITHM

A. Task Definition

B. Algorithm Definition

- 1) Assign K topics to N particles uniformly
- 2) Add Gaussian noise to particles
- 3) Cluster particles into K groups (TF-IDF weights with cosine/Euclidean distances)
- 4) Compare the clusters with topics from the next year, apply discounts to current weights, and adjust to new weights
- 5) repeat

III. EXPERIMENTAL EVALUATION

A. Methodology

B. Results

C. Discussion

IV. RELATED WORK

V. FUTURE WORK

VI. CONCLUSION

REFERENCES

- [1]
- [2] Blei, D. Introduction to Probabilistic Topic Models. Princeton University. 2011.