

Distant Authorities

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Research topic

- Motivation
 - Information drift over distance
- Subject
 - Distance from recommendation vs probability of acting on recommendation
- Problem Parameters
 - Yelp dataset
 - Reference posts
 - Distribution of visits

Overview

Methods

- Reference posts: classifiers¹
 - Trainer: “Local experts”²
 - Comparison set: “Elite” reviews¹
- Distribution
 - Effective closeness³
 - Actual distance⁴
- Correlation
 - Control set
 - Data aggregation

Progress

- Development environment
 - Drill
 - Python
 - Restricted dataset (Montreal restaurants)
- Reference posts
 - Trainer set
 - Evaluation set

References

1. Jindal, Tanvi. "Finding Local Experts from Yelp Dataset." Diss. U of Illinois at Urbana-Champaign, 2015. IDEALS @ Illinois. 27 Apr. 2015. Web.
2. López, Claudia, and Rosta Farzan. "Analysis of Local Online Review Systems as Digital Word-of-mouth." Proceedings of the 23rd International Conference on World Wide Web - WWW '14 Companion (2014). Web. (link: <http://dl.acm.org/citation.cfm?id=2576933>)
3. Kang, U., Spiros Papadimitriou, Jimeng Sun, and Hanghang Tong. "Centralities in Large Networks: Algorithms and Observations." Proceedings of the 2011 SIAM International Conference on Data Mining(2011): 119-30. Web. (link: <http://www.cs.cmu.edu/~ukang/papers/CentralitySDM2011.pdf>)
4. Akiba, Takuya, Yoichi Iwata, and Yuichi Yoshida. "Fast Exact Shortest-path Distance Queries on Large Networks by Pruned Landmark Labeling." Proceedings of the 2013 International Conference on Management of Data - SIGMOD '13 (2013)