Labelling Topics Using Unsupervised Graph-based Methods

Nikolaos Aletras and Mark Stevenson
{n.aletras, m.stevenson}@dcs.shef.ac.uk

Task: The aim of the task is to associate labels with automatically generated topics.

1. Retrieving Text Information
2. Creating Text Graph

Data

#Topics: 228
#Candidate Labels: ~6,000
Domains: BLOGS, BOOKS, NEWS, PUBMED
Candidate labels rated by humans (0-3)
Published by Lau et al. (2011).

Conclusion

• Unsupervised graph-based method to associate textual labels with automatically generated topics.
• Our method performs consistently better than previous supervised methods.

Results

Top-1 Average Rating