

Supplementary Material for "The Stochastic Topic Block Model for the Clustering of Vertices in Networks with Textual Edges"

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1 Analysis of the Enron email network

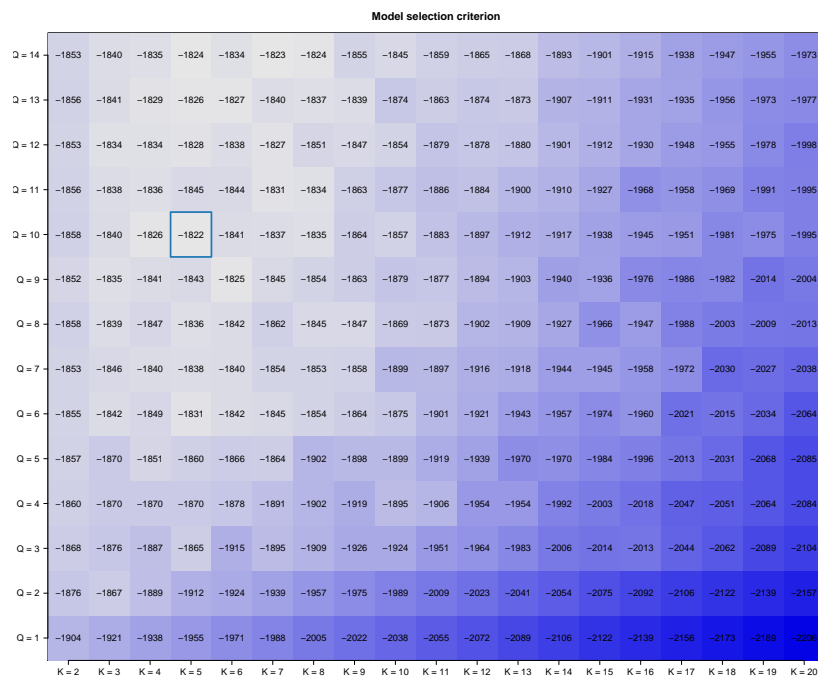


Fig. 1 Model selection for STBM on the Enron data set. The values of ICL are divided by 10^3 .

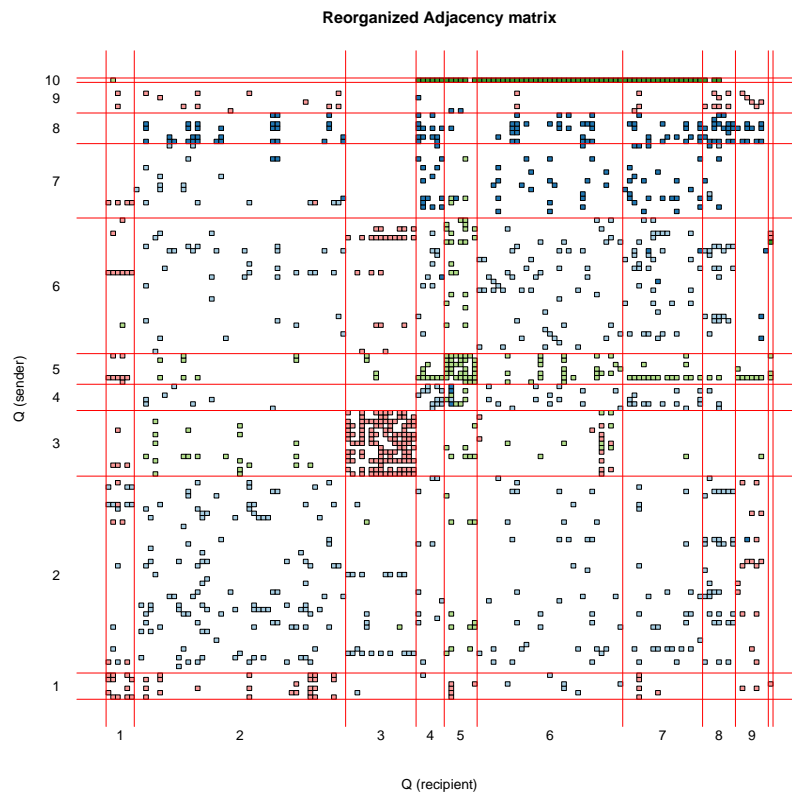


Fig. 2 Reorganized adjacency matrix according to groups for STBM on the Enron data set.

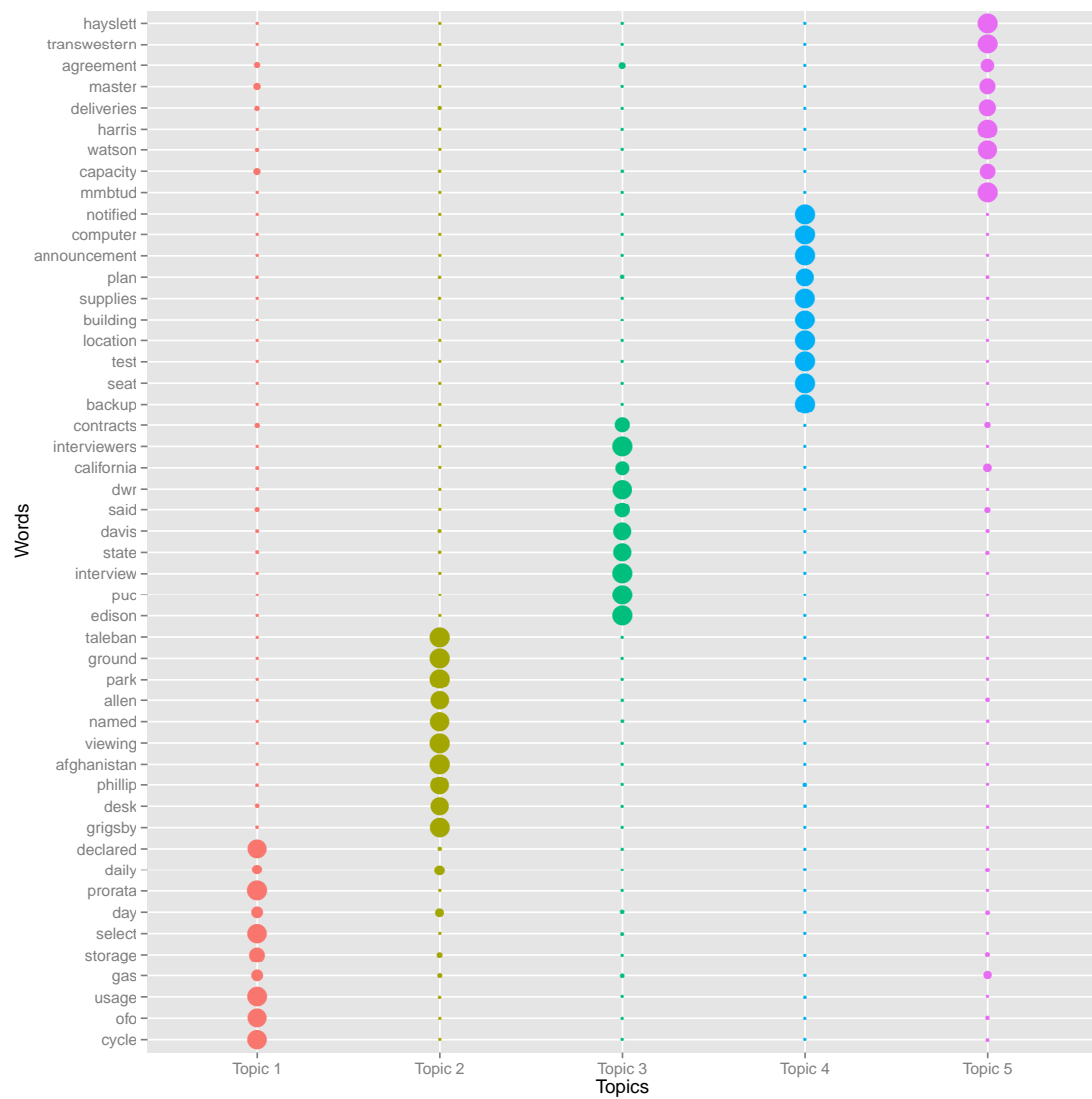


Fig. 3 Specificity of a selection of words regarding the 5 found topics by STBM on the Enron data set.

2 Analysis of the Nips'15 co-authorship network

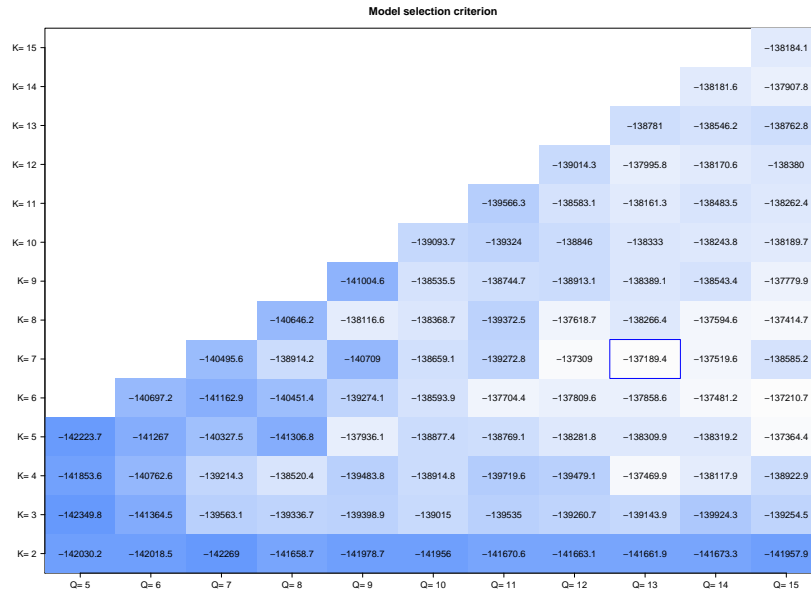


Fig. 4 Model selection for STBM on the NIPS co-authorship network. The values of ICL are divided by 10^3 .

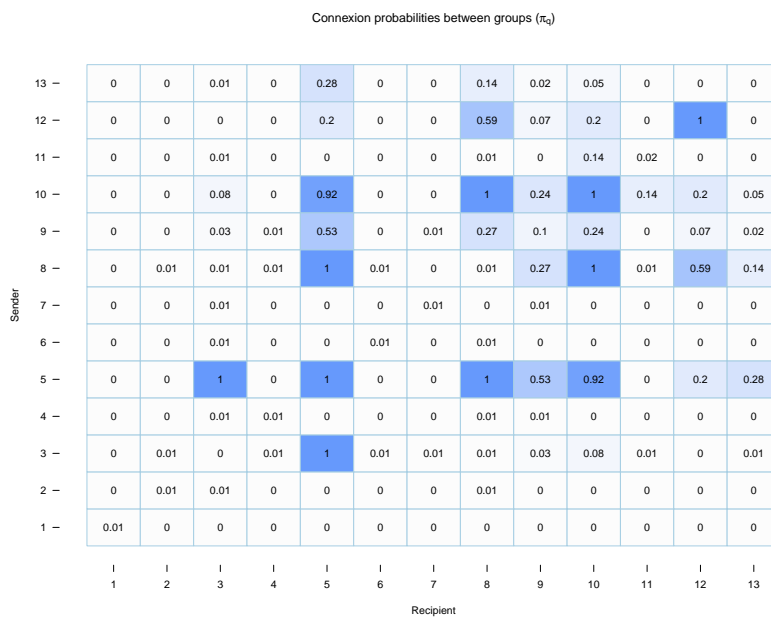


Fig. 5 Estimated matrix π by STBM on the Nips co-authorship network.

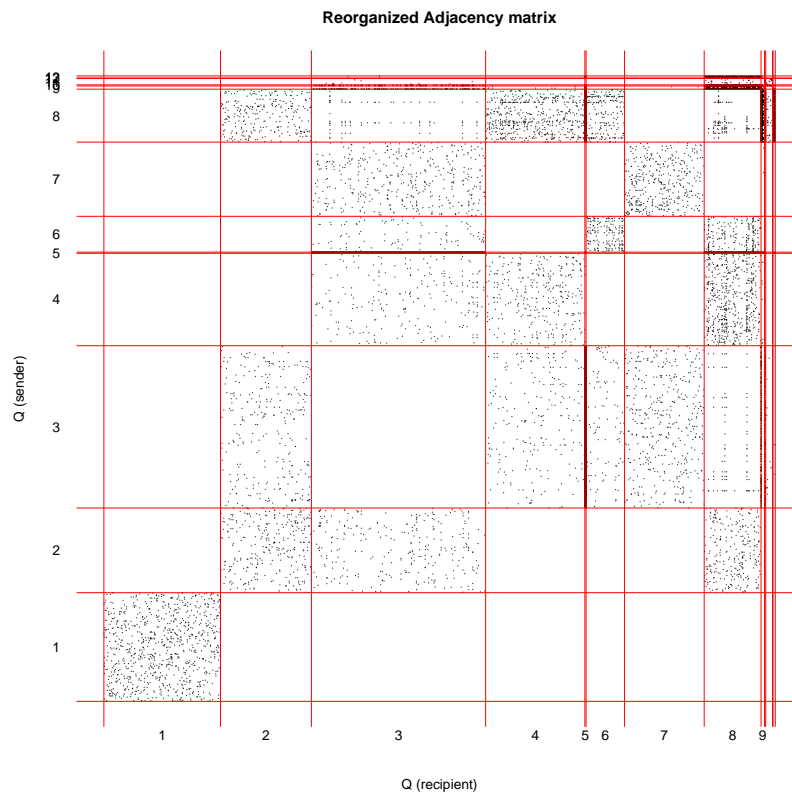


Fig. 6 Reorganized adjacency matrix according to groups for STBM on the Nips co-authorship network.

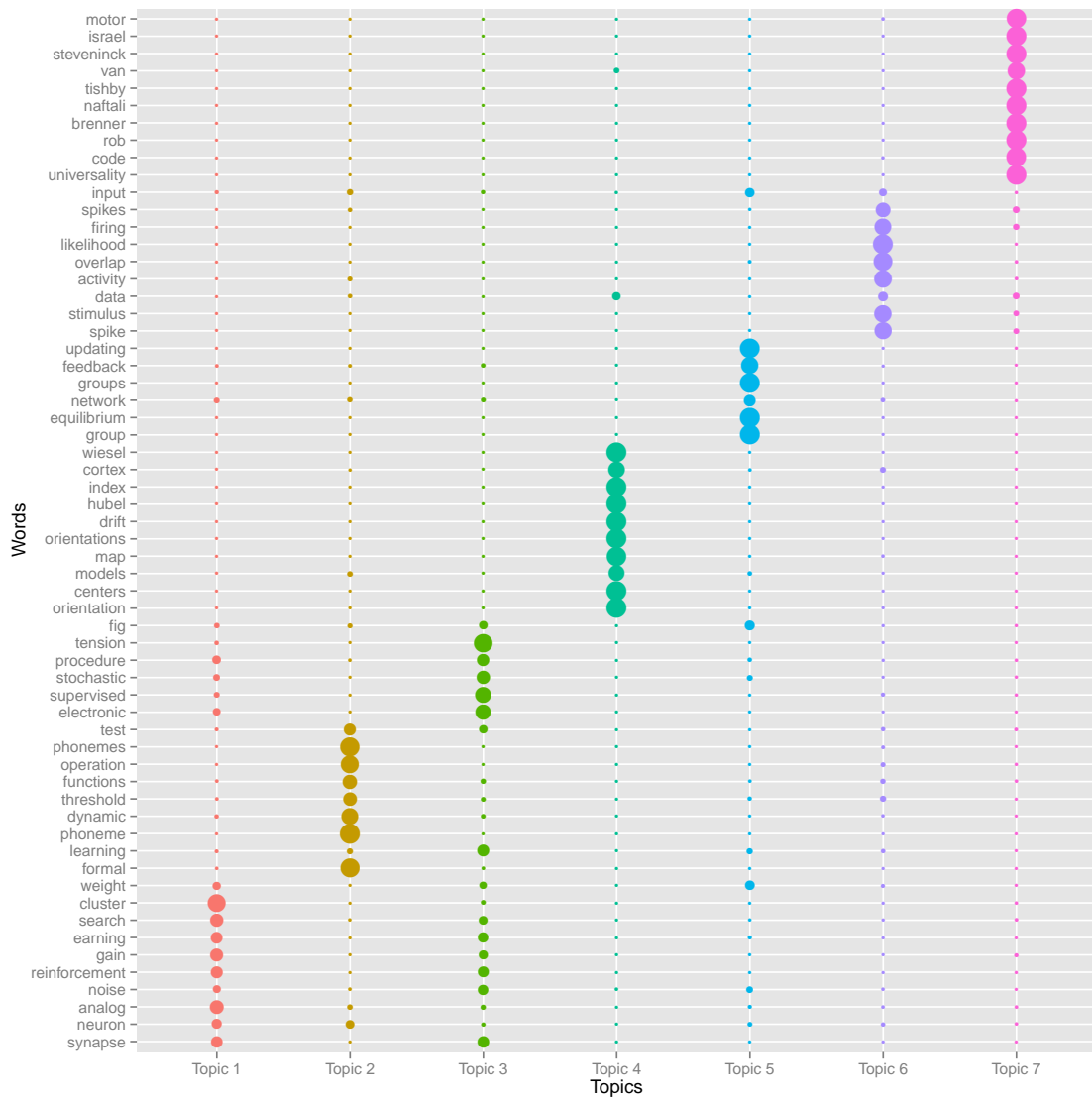


Fig. 7 Specificity of a selection of words regarding the 5 found topics by STBM on the Nips co-authorship network.