1. Supplementary Material
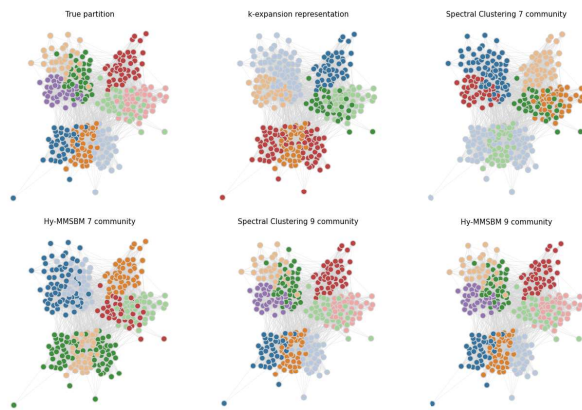

Fig. 6. Visualization of the high school network: ground truth clustering (top left), k-clique expansion + Louvain (top center), HySC with n° communities determined by Louvain (top right), HyMMSBM with n° communities determined by Louvain (bottom left), HySC with the true number of communities (bottom center), and HyMMSBM with the true number of communities (bottom right).
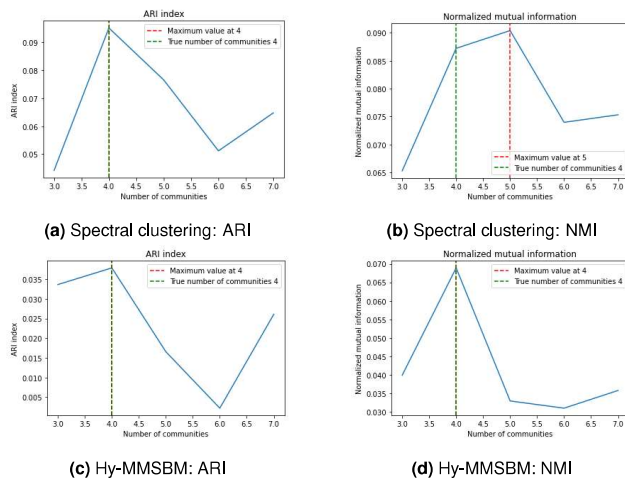

(a) Spectral clustering: ARI

(b) Spectral clustering: NMI

(c) Hy-MMSBM: ARI

(d) Hy-MMSBM: NMI

Fig. 7. Clustering performance for the hospital network. The top row shows results for the spectral clustering algorithm, while the bottom row shows results for the Hy-MMSBM method. The metrics evaluated are ARI (left) and NMI (right).

Fig. 8. Visualization of the hospital network: ground truth clustering (top left), k-clique expansion + Louvain (top center), HySC with n° communities determined by Louvain (top right), HyMMSBM with n° communities determined by Louvain (bottom left), HySC with the true number of communities (bottom center), and HyMMSBM with the true number of communities (bottom right).

Fig. 9. Visualization of the congress commies network: ground truth clustering (top left), k-clique expansion + Louvain (top center), HySC with n° communities determined by Louvain (top right), HyMMSBM with n° communities determined by Louvain (bottom left), HySC with the true number of communities (bottom center), and HyMMSBM with the true number of communities (bottom right).
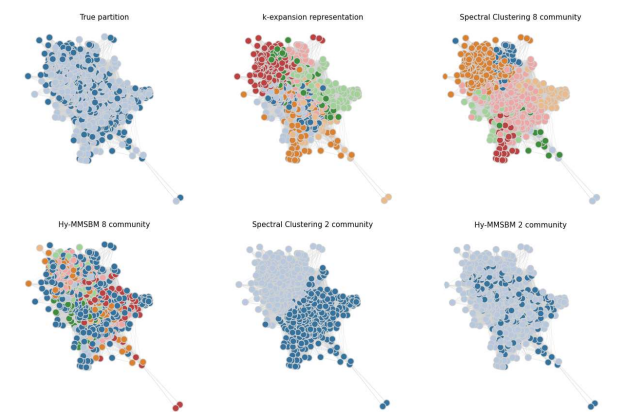

Fig. 10. Visualization of the workspace network: ground truth clustering (top left), k-clique expansion + Louvain (top center), HySC with n° communities determined by Louvain (top right), HyMMSBM with n° communities determined by Louvain (bottom left), HySC with the true number of communities (bottom center), and HyMMSBM with the true number of communities (bottom right).
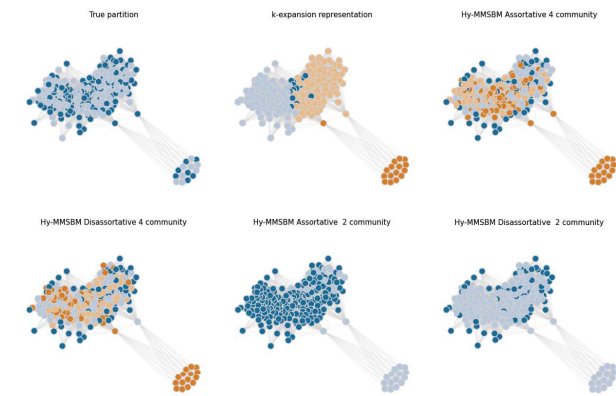
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Fig. 11. Visualization of the Senate committies network: ground truth clustering (top left), k-clique expansion + Louvain (top center), HyMMSBM Assortative with n° communities determined by Louvain (top right), HyMMSBM Non-Assortative n° communities determined by Louvain (bottom left), HyMMSBM Assortative with the true number of communities (bottom center), and HyMMSBM Non-Assortative with the true number of communities (bottom right).