
Algorithm 1: CONTENT-PARTITIONED MULTINETWORK EMBEDDINGS

Data: Message-Word Matrix, Dictionary, Edge Matrix, Number of Topics, Node Covariates, Latent Dimensions, Number of Clusters, α , β

INITIALIZE ALL VARIABLES

for $i \in 1:\text{Samples}$ **do**

 SAMPLE TOKEN TOPIC ASSIGNMENTS

 SAMPLE TOPIC CLUSTER ASSIGNMENTS

 ADJUST METROPOLIS HASTINGS CONTROL PARAMETERS

for $m \in 1:\text{Metropolis-Hastings Iterations}$ **do**

for $c \in 1:\text{Clusters}$ **do**

 SAMPLE CLUSTER LATENT SPACE PARAMETERS

end

end

end
