

METHOD AND SYSTEM FOR ADAPTIVELY DIVIDING GRAPH NETWORK INTO SUBNETWORKS

ABSTRACT

The present disclosure provides a method and a system for adaptively dividing a graph network comprising a plurality of nodes, each of the plurality of nodes being connected to at least one other node of the plurality of nodes, the method comprising: for each pair of subnetworks from a plurality of subnetworks within the graph network, calculating an association score based on a first accuracy metric in predicting a first latent attribute of at least one first node of a first subnetwork of the each pair of subnetworks using parameters optimized for accurately predicting a second latent attribute of at least one second node of a second subnetwork of the each pair of subnetworks; and forming one of a plurality of new subnetworks within the graph network from each pair of a pair set of subnetworks from the plurality of subnetworks based on a result of determining a sum of the association scores of the pair set of subnetworks is higher than that of another pair set of subnetworks from the plurality of subnetworks.

[Figure 8]