

TITLE:
METHOD FOR REPRESENTING OBJECTS OF A NETWORK IN A GUI
WITH A GRAPH CLUSTERING

ABSTRACT

Various embodiments provide a method for representing objects of a network in a GUI with a graph clustering comprising retrieving a base graph comprising the objects of the network as respective nodes and links between said nodes, grouping two or more of the nodes in one or more clusters, initializing the clusters, assessing the clusters defining a visualization graph, The assessing includes creating an empty visualization graph, calculating for each clusters a distance ratio between a cluster radius and a predefined distance value, evaluating the distance ratio, compressing the cluster when the distance ratio is higher than a predefined distance ratio threshold, adding in the visualization graph a single compressed cluster node for all relevant child nodes, expanding the cluster when the distance ratio is lower than the predefined distance ratio threshold, adding in the visualization graph a plurality of nodes for all relevant child nodes and adding a link.

FIG. 5