

GON does not need to care about the Size of the graph. In fact, what to be Learnt are Wi and Wz in this example.

· Wi is decided by the number of features and the size of the hidden layer.

- Wz is decided by the size of the hidden layer and the num of classes.

d: # of features

t: size of the hidden layer

C: # of Classes.

This GCN does not care about the size of the graph because the adj metrix and features of nodes are used as inputs. However, d, t, and C should be fixed for a training task.

for example:

$$G_{1} \stackrel{A_{1}}{\times_{1}} \Rightarrow GCN(A_{1},X_{1}) \Rightarrow \bigcap_{N_{1}\times C} \bigcap_{N_{1}\times C}$$

So, what really monthers for GeN are d, t, and C.