Graph transformation component

FCM(f)s → dimensionality reduction → reduced FCM(f)s

unnormalised CT
unnormalised SA
unnormalised GMV
unnormalised QC

normalisation with train/validation/test masks

normalised CT
normalised SA
normalised GMV
normalised QC

GNN training and evaluation component

training/validation/test masks

Graph construction component

intermediate population graph

set train/validation/test masks

masked intermediate population graph

concatenated imaging data

set transformed feature tensor

prepared population graph

GNN architecture component

CT: cortical thickness, FCM(f): functional connectivity matrix (flattened), GMV: grey matter volume, SA: surface area, SM: similarity matrix, QC: quality control