library("NetworkToolbox")

library("bootnet")

library("psych")

library("qgraph")

library("ggplot2")

library("igraph")

library(foreign)

zz <- file.path("U:","My Documents")

book1loc <- file.path(zz,"book1.sav")

Book1 <- read.spss(book1loc)

network <- estimateNetwork(Book1,default = "EBICglasso", corMethod = "spearman")

network$graph

Layout <- averageLayout(network)

plot(network,layout = Layout, title = "EBIC glasso",edge.labels=TRUE,label.cex = 0.7, label.color = 'orang', label.prop = 1.5, negDashed = FALSE, legend.cex = 0.8, legend.mode = 'style2',

font = 4)

network

bootnet\_nonpar <- bootnet(network, nBoots = 1000, nCores = 8)

plot(bootnet\_nonpar, labels = FALSE, order = "sample")

centralityPlot(network, include = "all", orderBy = "ExpectedInfluence")

bootnet\_case\_dropping <- bootnet(network, nBoots = 1000, type = "case", nCores = 8, statistics = ('all'))

plot(bootnet\_case\_dropping, 'all')

corStability(bootnet\_case\_dropping)

#Stability of differences in edge weights or in centrality measures

differenceTest(bootnet\_nonpar,

"ARCQ", "VAQ",

measure = "strength")