PartitionDAG Real Data Analysis without TI

Syed Rahman

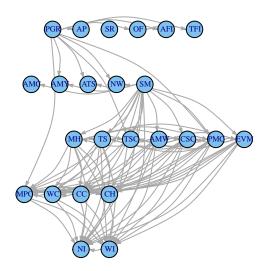
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Partition DAG dairy cattle data

This script includes the dairy cattle data analysis for the partition-DAG paper.

5 group network

In this section we run partition Dag with 5 groups:



10 group network

In this section we run partition Dag with 10 groups:

```
lambda = 4
B = partitionDAG::partial9(X = as.matrix(data),
                            1 = lambda,
                            m1 = 2,
                            m2 = 3,
                            m3 = 4,
                            m4 = 6,
                            m5 = 9,
                            m6 = 11,
                            m7 = 18,
                            m8 = 22)$B
colnames(B) = colnames(data)
row.names(B) = colnames(data)
B = B[invPerm(rand_ordr),invPerm(rand_ordr)]
graphB = graph_from_adjacency_matrix(t(B), mode = 'directed', weighted = TRUE, diag = FALSE)
plot(graphB, layout = coords9woTI(), vertex.size=15, vertex.label.dist = .1, vertex.color = 'SkyBlue2',
     vertex.label.cex = 0.5, edge.arrow.size = 0.25, edge.curved=.3)
```

