Degree

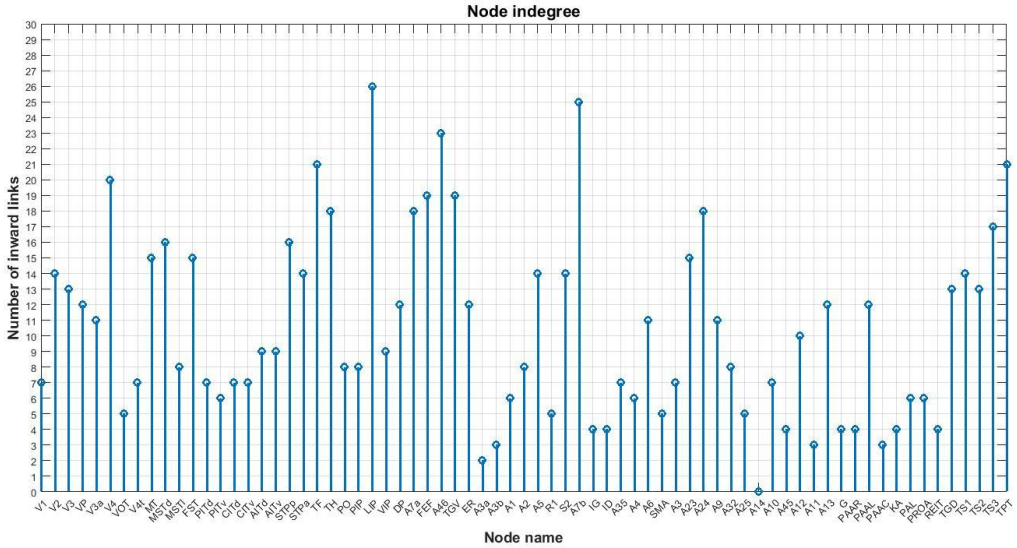

Figure 1. Stemplot represents the number of inward links for each node in macaque cortical connectivity network

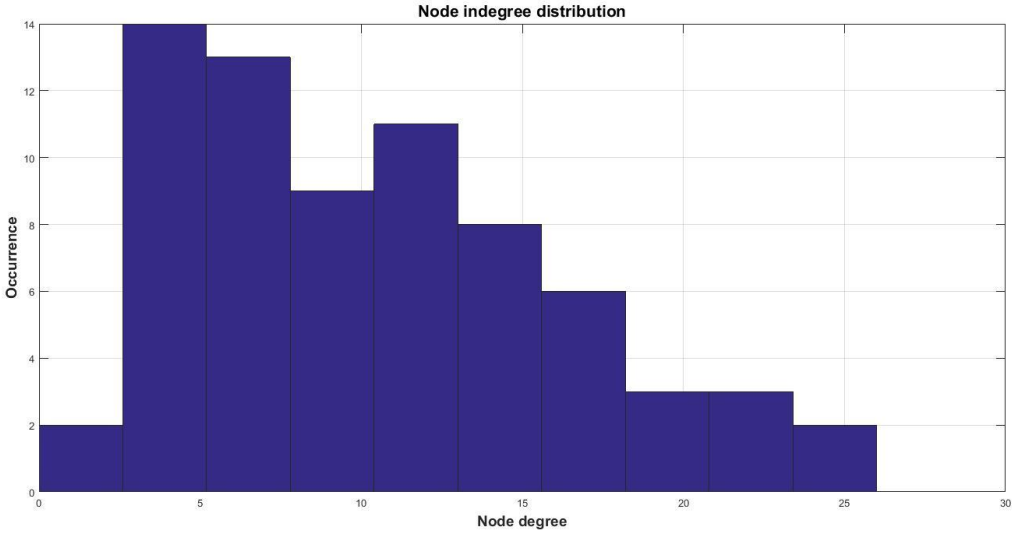

Figure 2. Network indegree (number of inward links) distribution

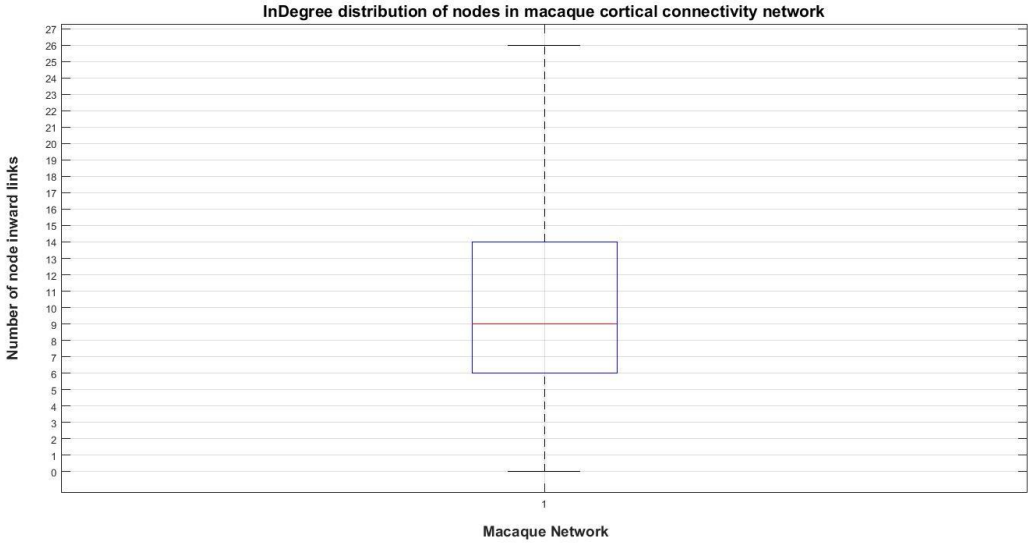

Figure 3. Boxplot of network indegree (number of inward links) distribution

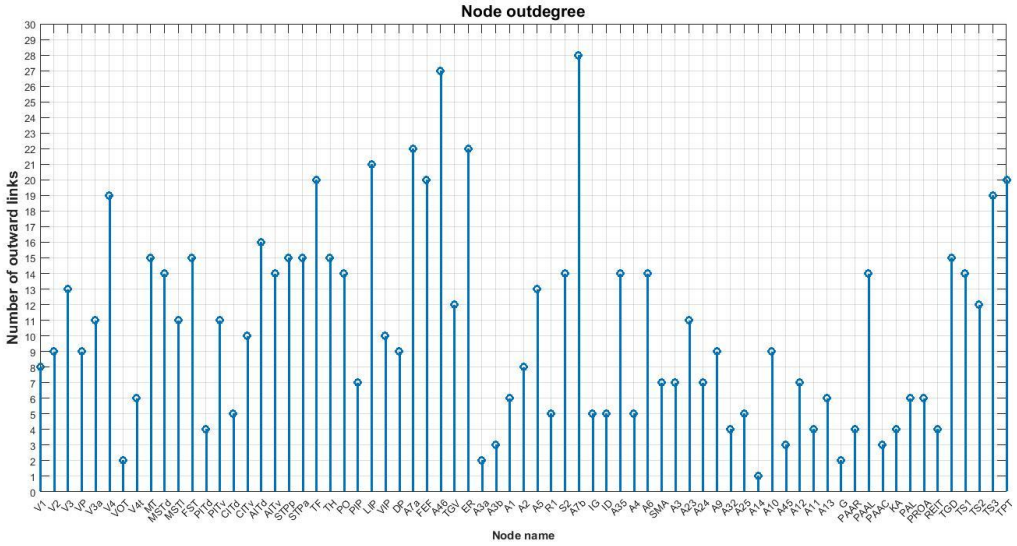

Figure 4. Stemplot represents the number of outward links for each node in macaque cortical connectivity network

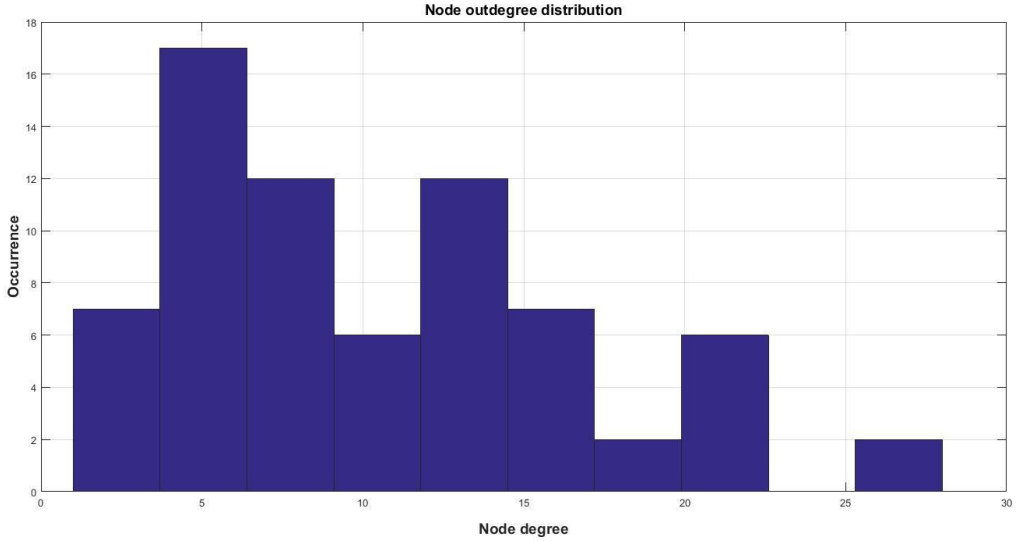

Figure 5. Network outdegree (number of outward links) distribution

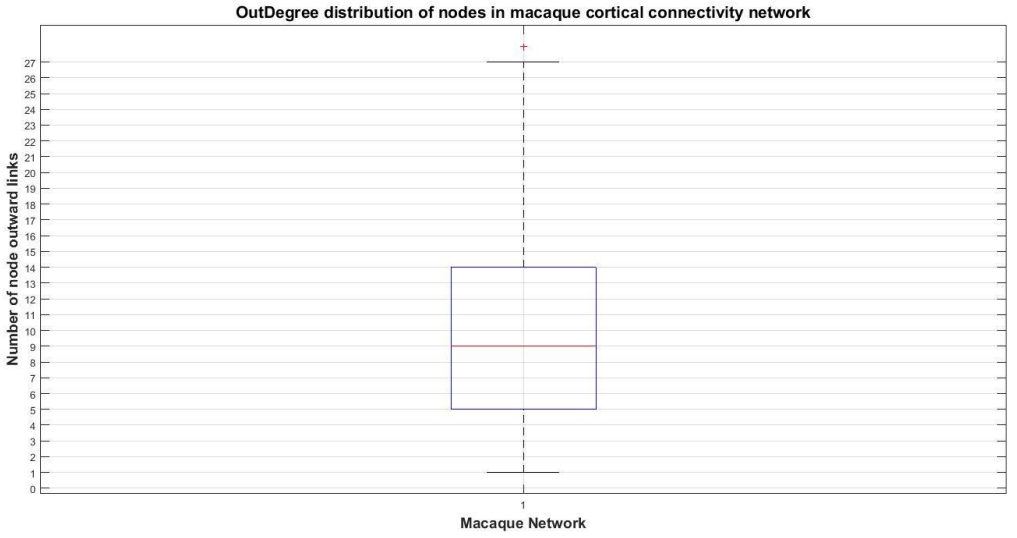

Figure 6. Boxplot of network outdegree (number of outward links)

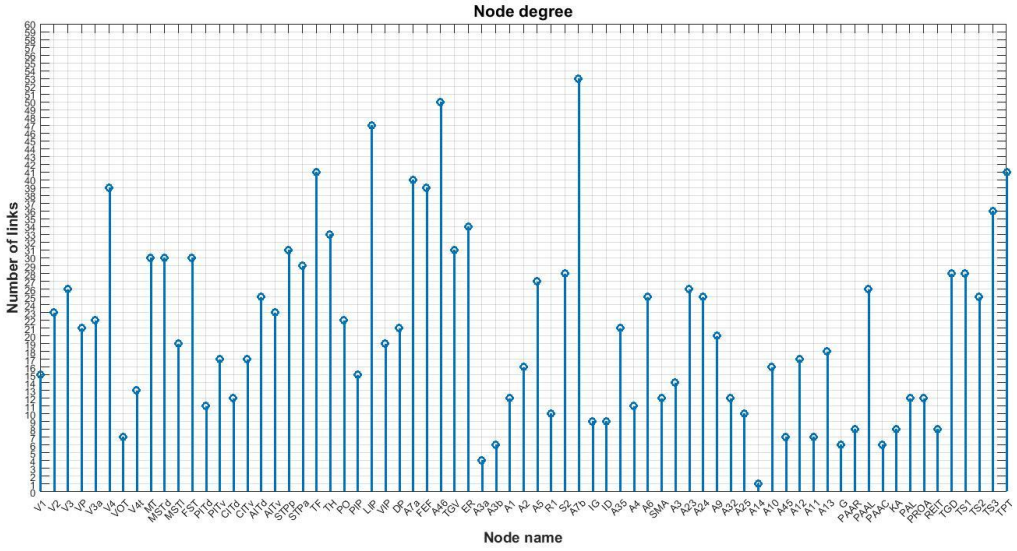

Figure 7. Stemplot represents the degree (number of inward+outward links) of each node node in macaque cortical connectivity network

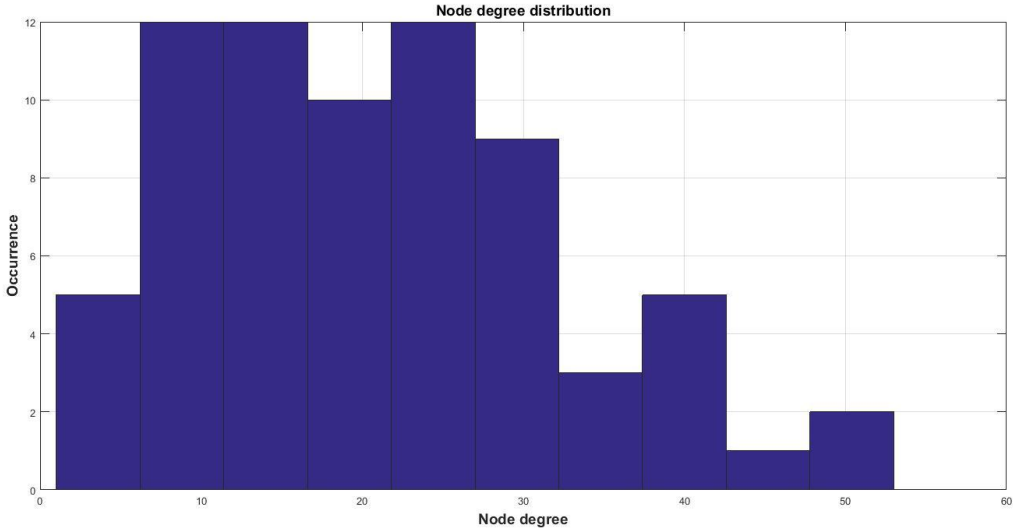

Figure 8. Network degree (number of inward+outward links) distribution

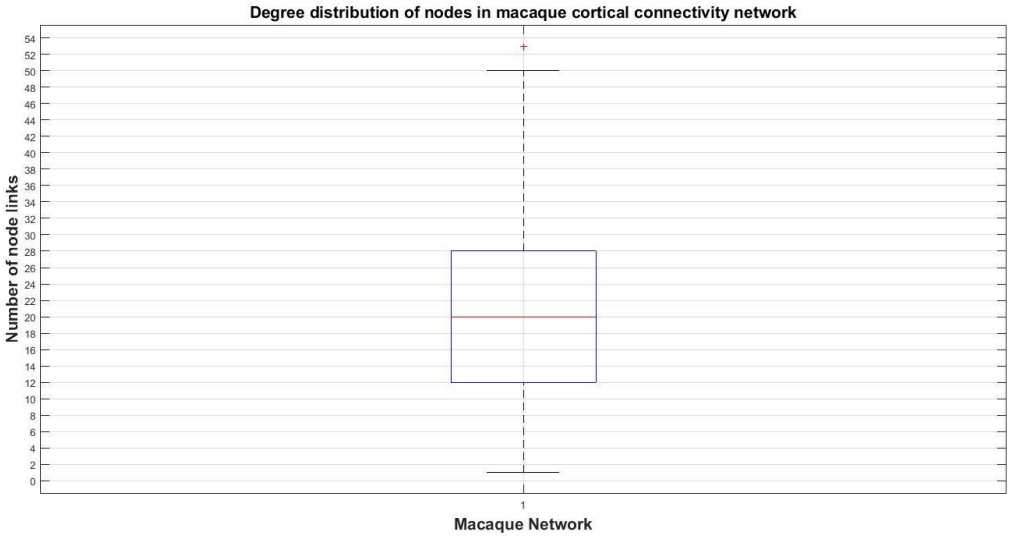

Figure 9. Boxplot of network degree (number of inward+outward links)

Joint degree

J_od = 25 number of vertices with od>id;

J_id = 27 number of vertices with id>od.
J_bl = 19 number of vertices with id=od.

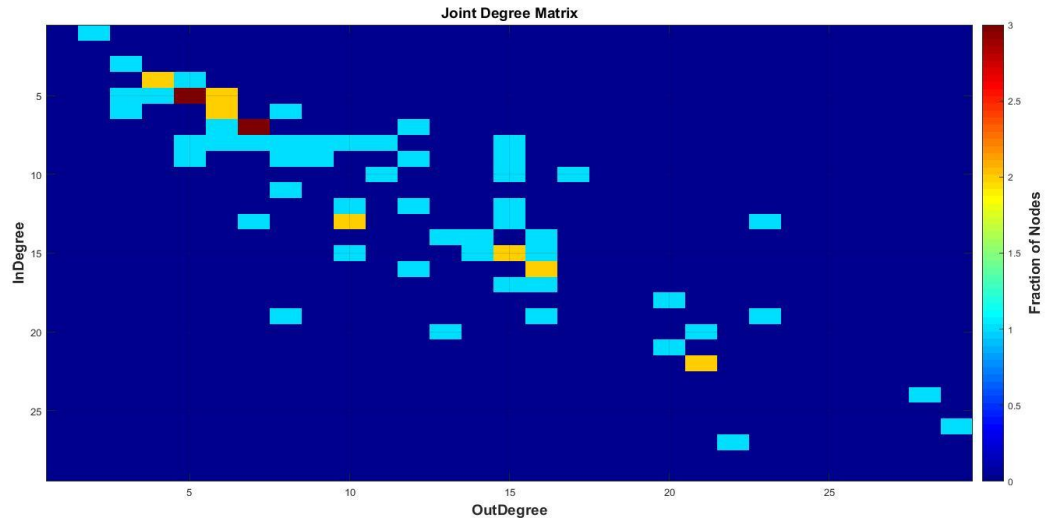

Figure 10. Joint degree matrix of cortical connectivity network

Matching index

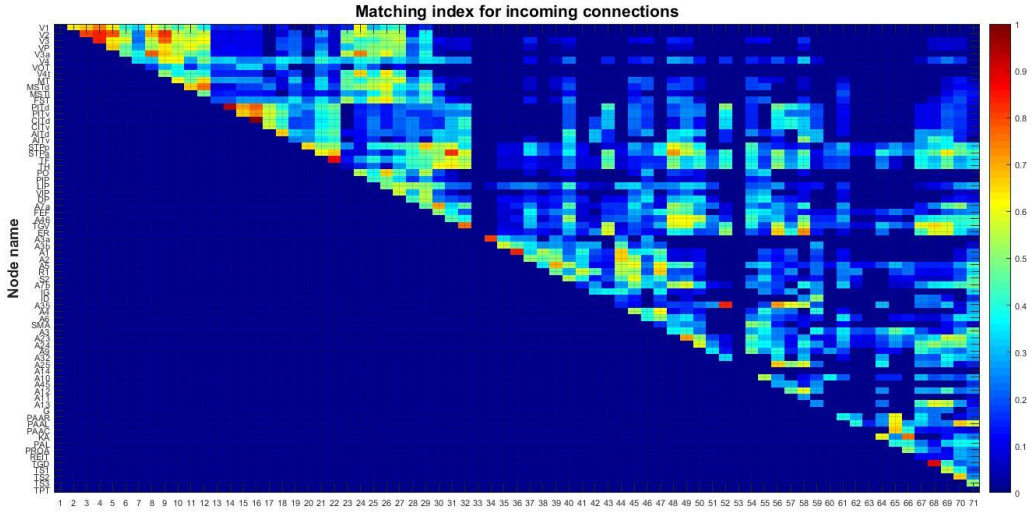

Figure 11. Matching index, an overlap in the patterns of incoming connection for pairs of nodes

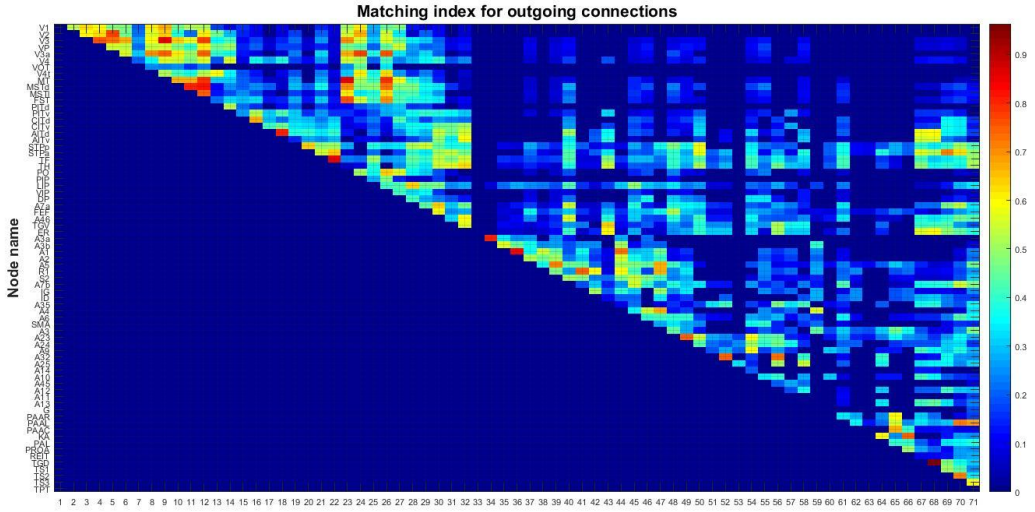

Figure 12. Matching index, an overlap in the patterns of outgoing connection for pairs of nodes

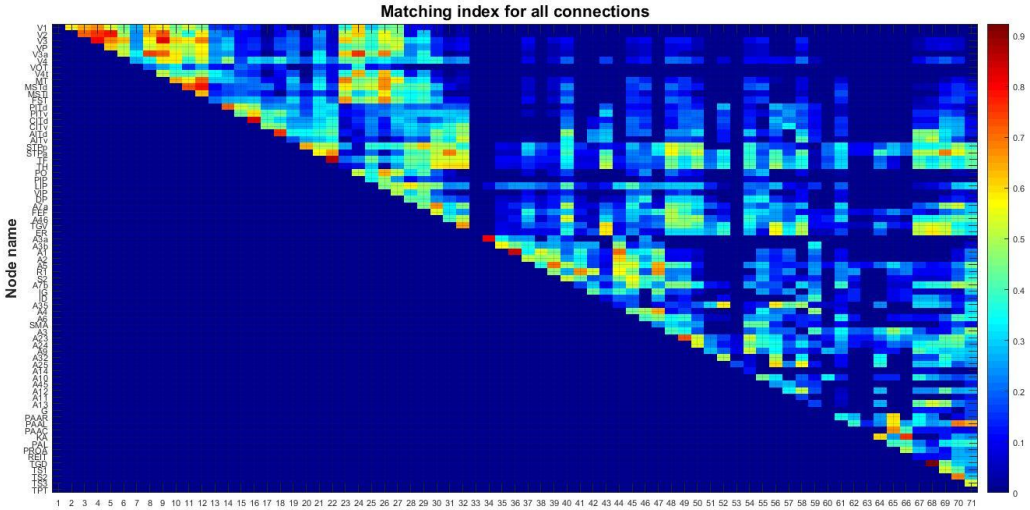

Figure 13. Matching index, an overlap in the patterns of all connection for pairs of nodes

Density

Kden = 0.1501 (density); N = 71 (number of vertices); K = 746 (number of edges)

Clustering coefficient

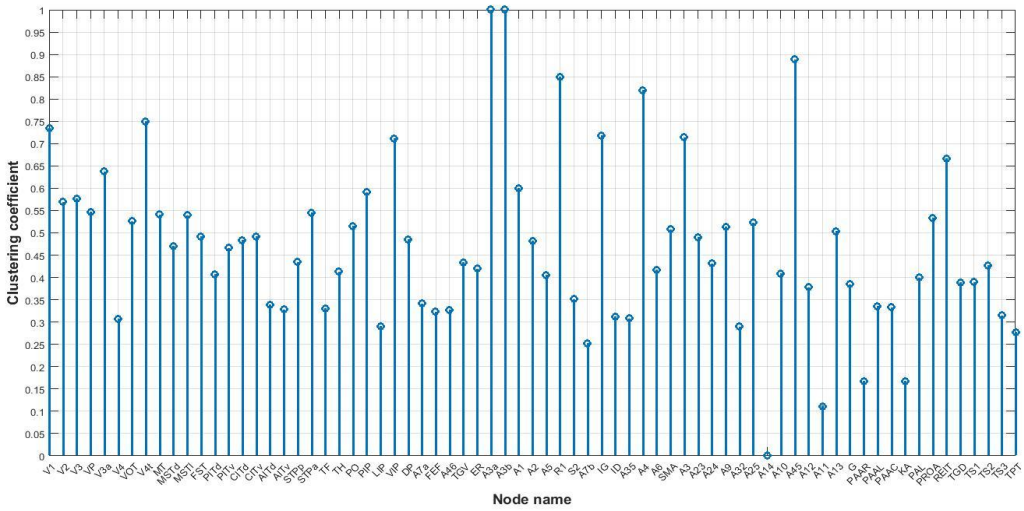

Figure 14. Stemplot represents clustering coefficient of each node in the connectivity network

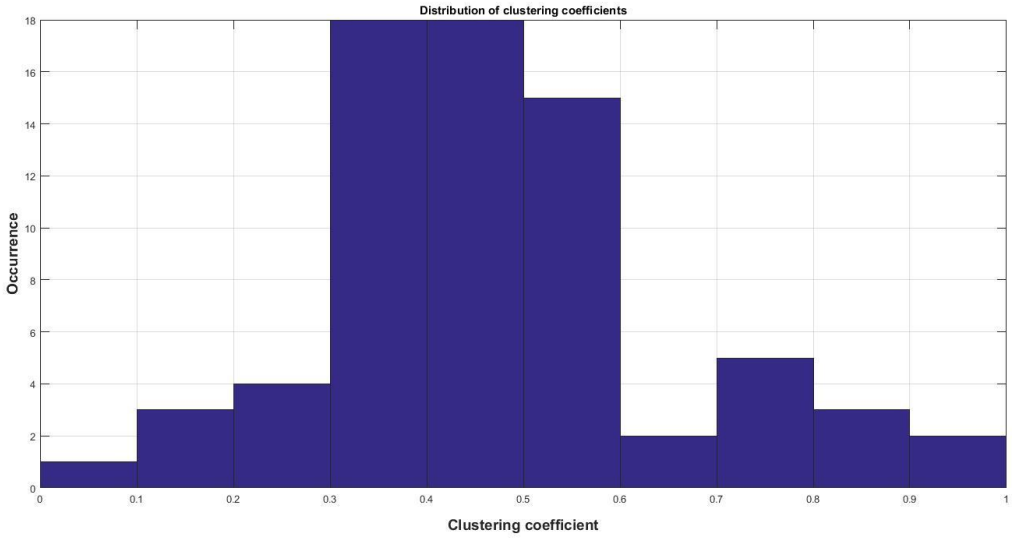

Figure 15. Clustering coefficients distribution of network

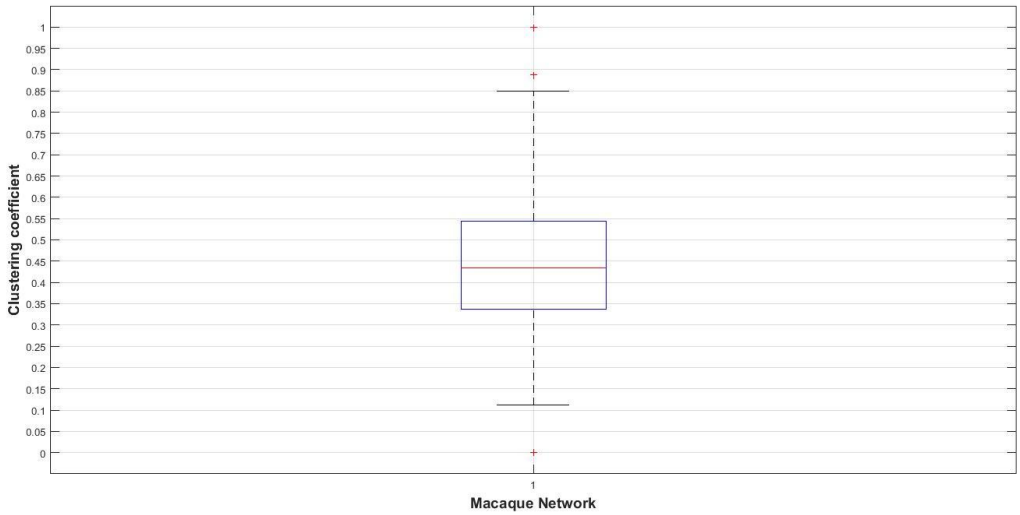

Figure 16. Boxplot of network clustering coefficient

Transitivity

T = 0.398 (Ratio of triangles to triplets' in the network)

Local efficiency

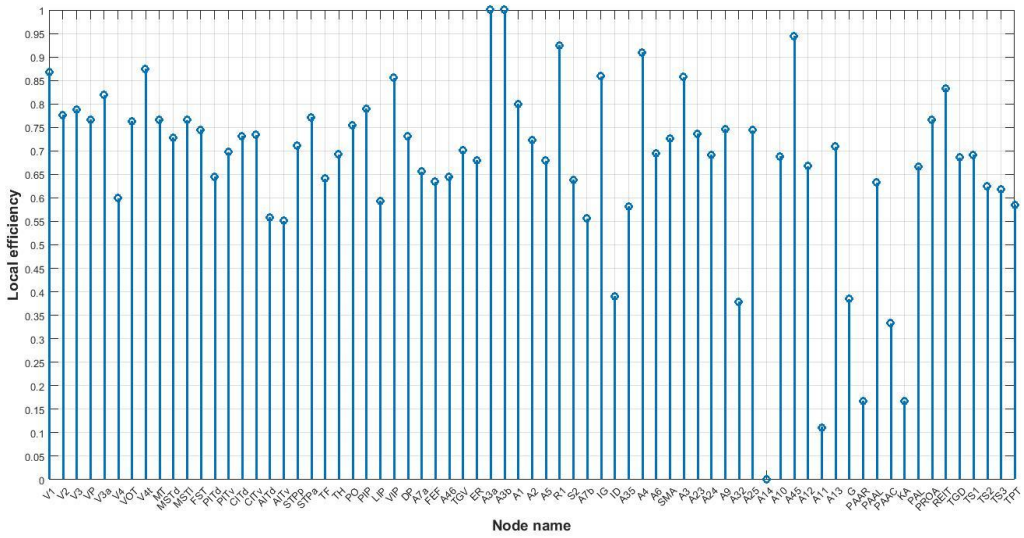

Figure 17. Stemplot represents local efficiency of each node

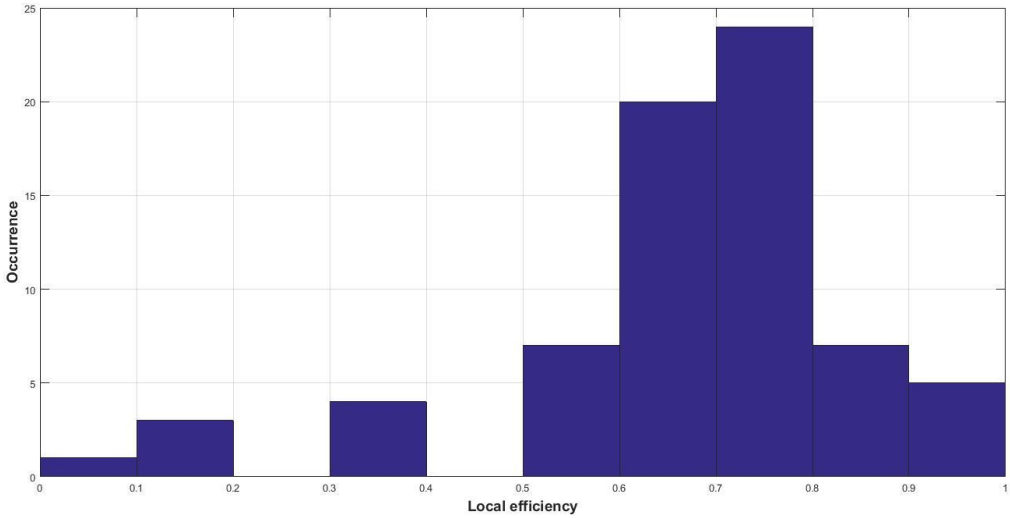

Figure 18. Histogram of local efficiency distribution

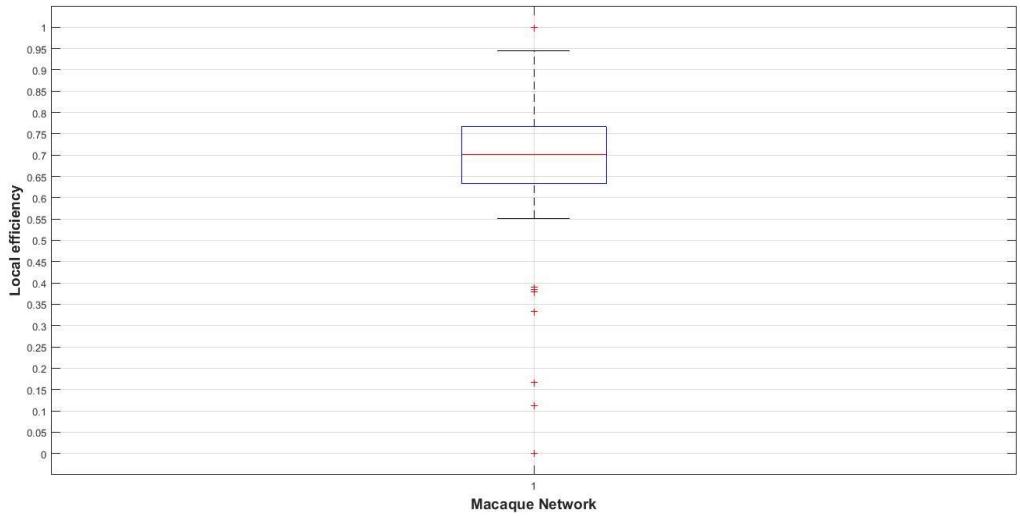

Figure19. Boxplot of network local efficiency

Global efficiency

Eglob = 0.4961

Assortativity

r =-0.0066 (out-degree/in-degree correlation)
r = 0.0490 (in-degree/out-degree correlation)
r = -0.0095 (out-degree/out-degree correlation)
r = 0.0566 (in-degree/in-degree correlation)

Mean first passage time

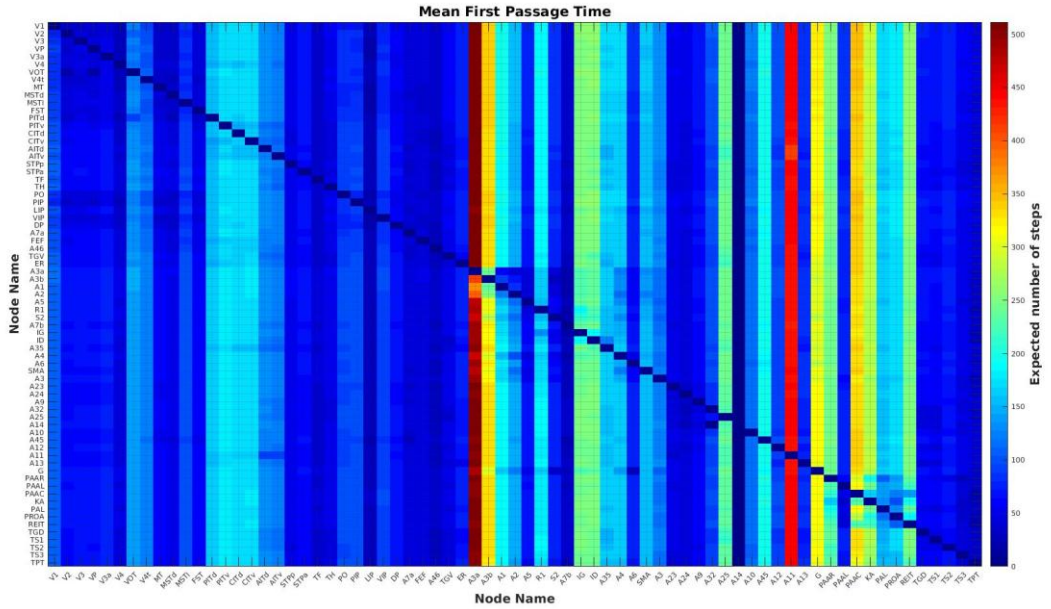

Figure 20. Matrix of mean search passage time from node i to j

Betweenness centrality

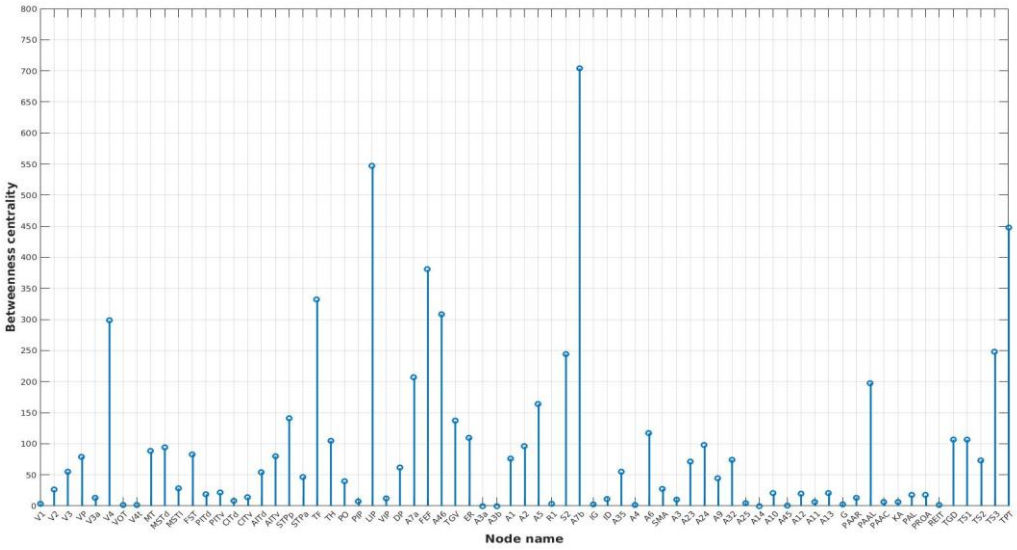

Figure 21. Stemplot represents betweenness centrality of each node in the network

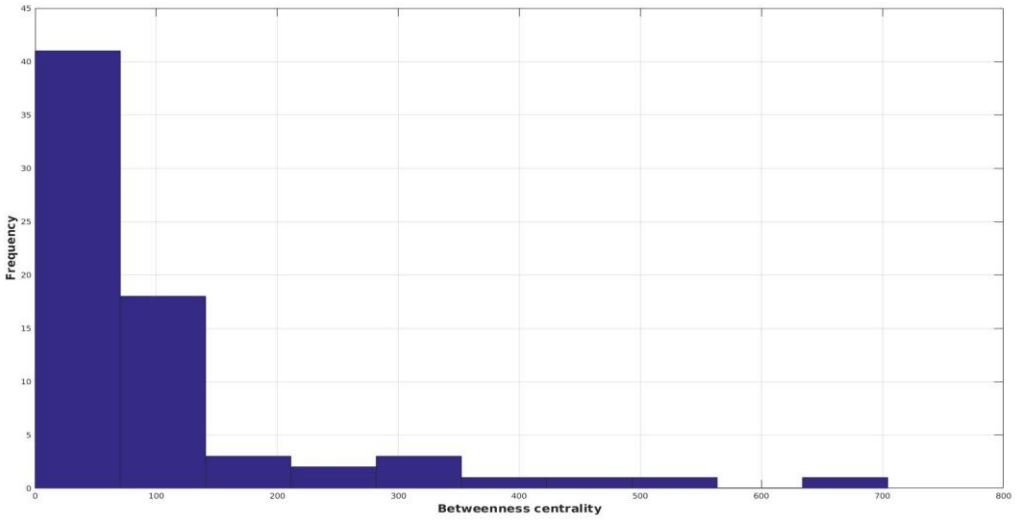

Figure 22. Betweenness centrality distribution of network

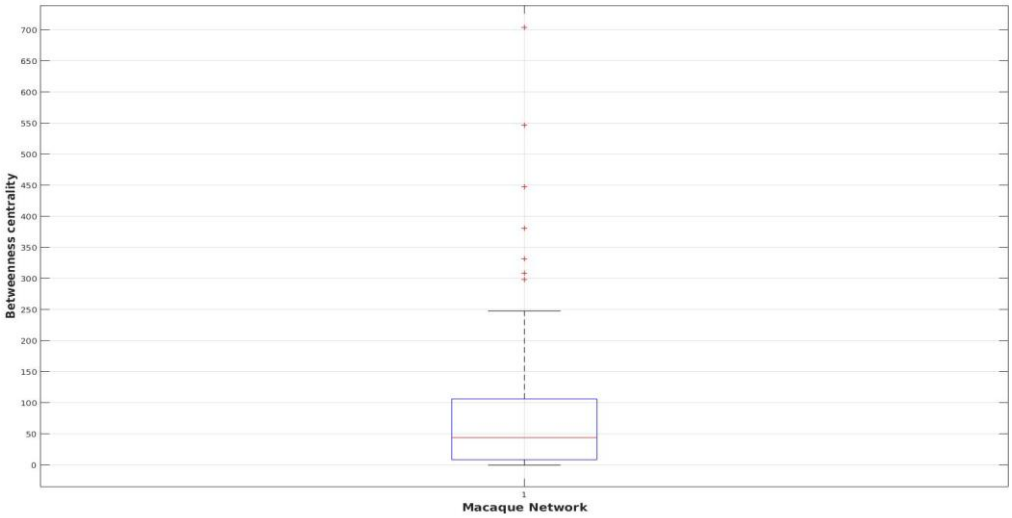

Figure 23. of network betweenness centrality

Distance

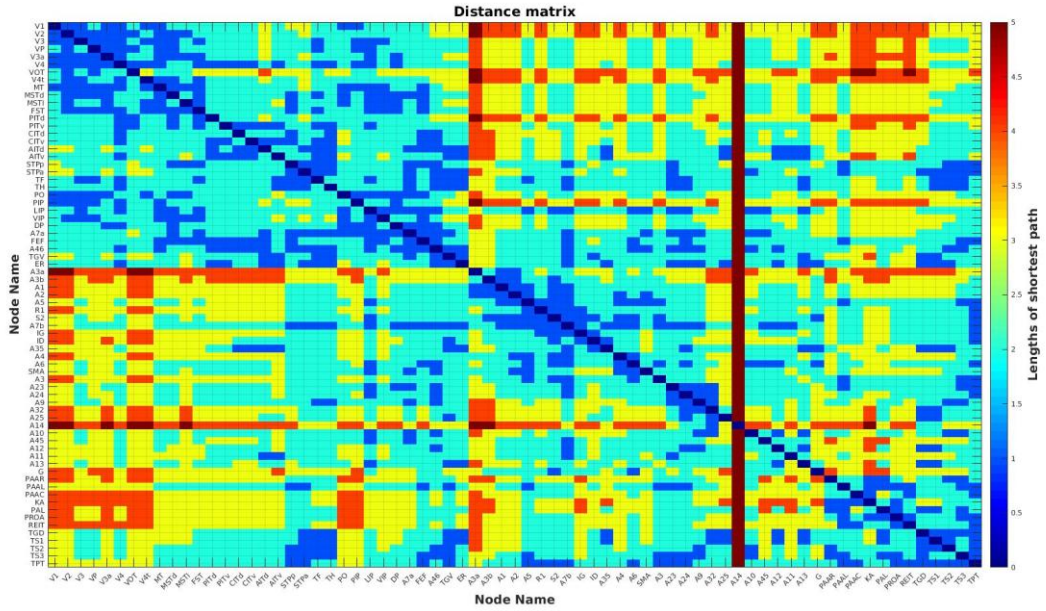

Figure 24. Distance matrix represents the length of shortest path from node I to node j

Characteristic path length

lambda = inf (disconnected nodes?)