

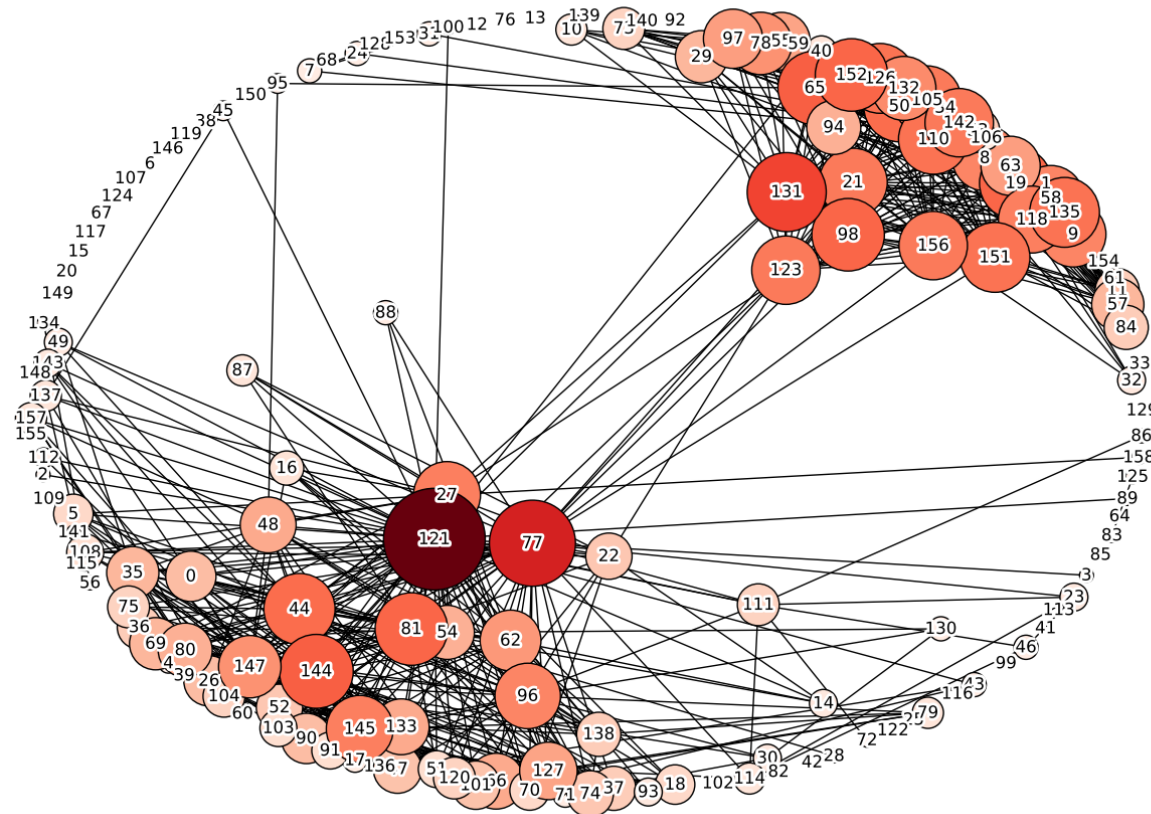


НАЦИОНАЛЬНЫЙ ИССЛЕДОВАТЕЛЬСКИЙ
УНИВЕРСИТЕТ

Friend's graph analysis

Alexander Ageev

Network Summary



Picture 1. My social network

Nodes: 159

Edges: 694

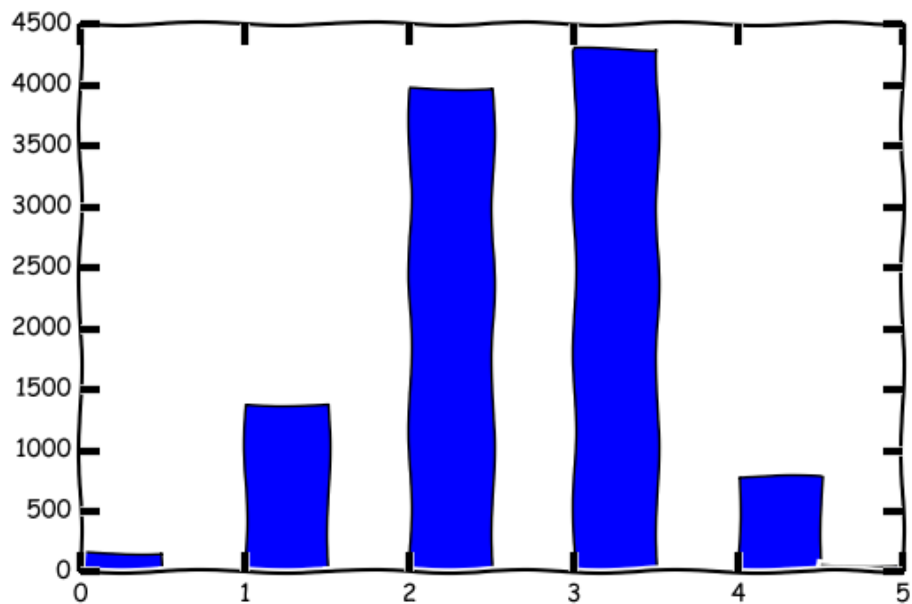
Radius: 3

Diameter: 5

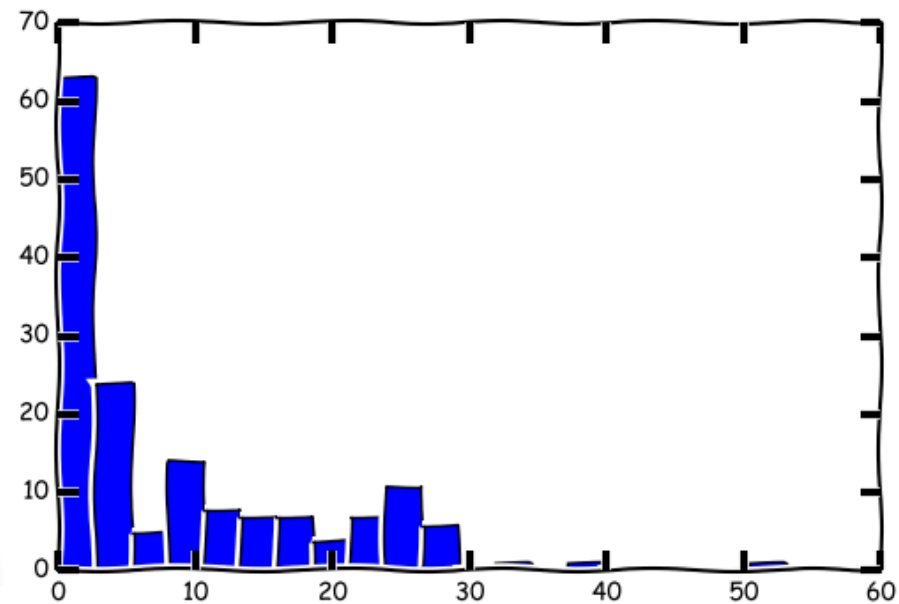
Clustering Coefficient: 0.56

Number of connected components: 51

Network Summary

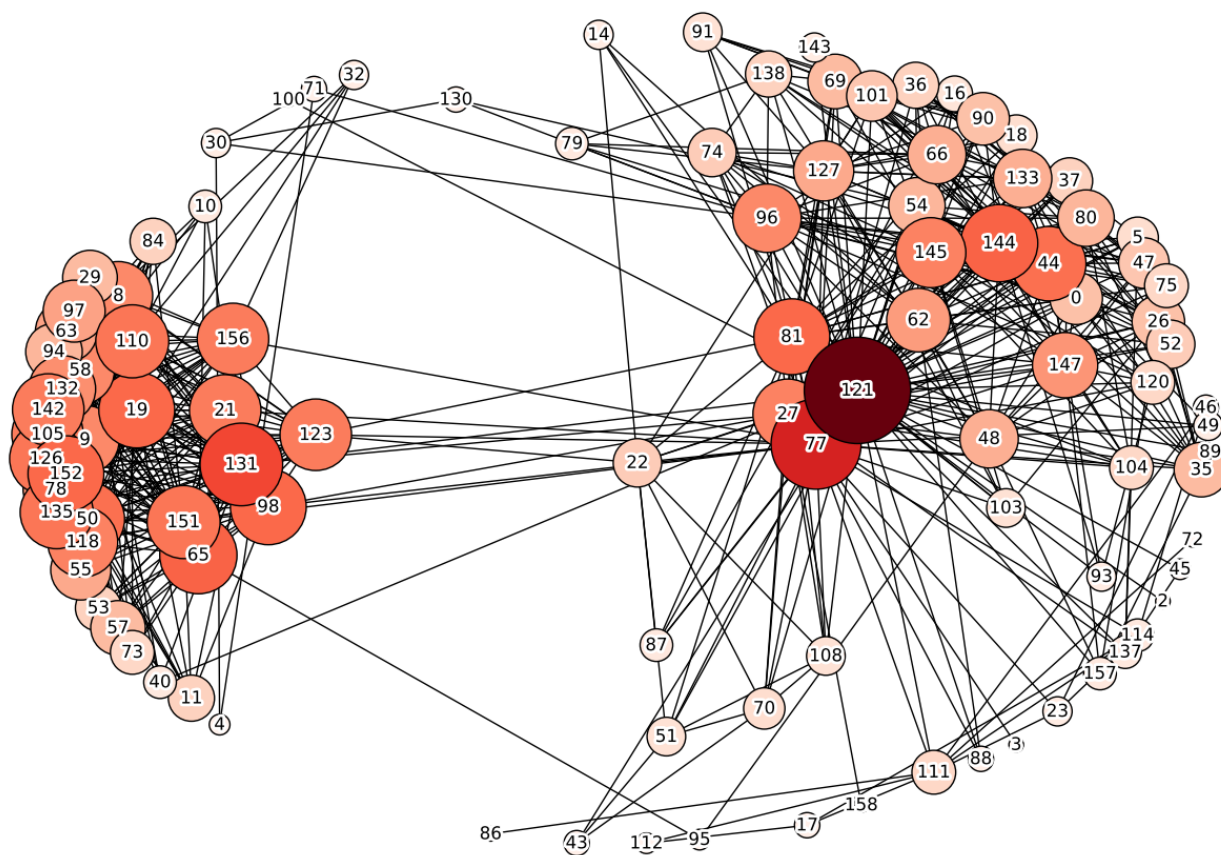


Picture 2. Shortest path lengths distribution



Picture 3. Node degree distribution

Network Summary

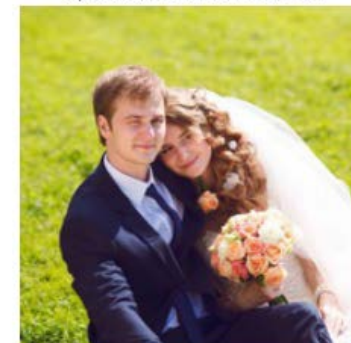


Picture 4. Giant connected component

Игорь Данилов (131)



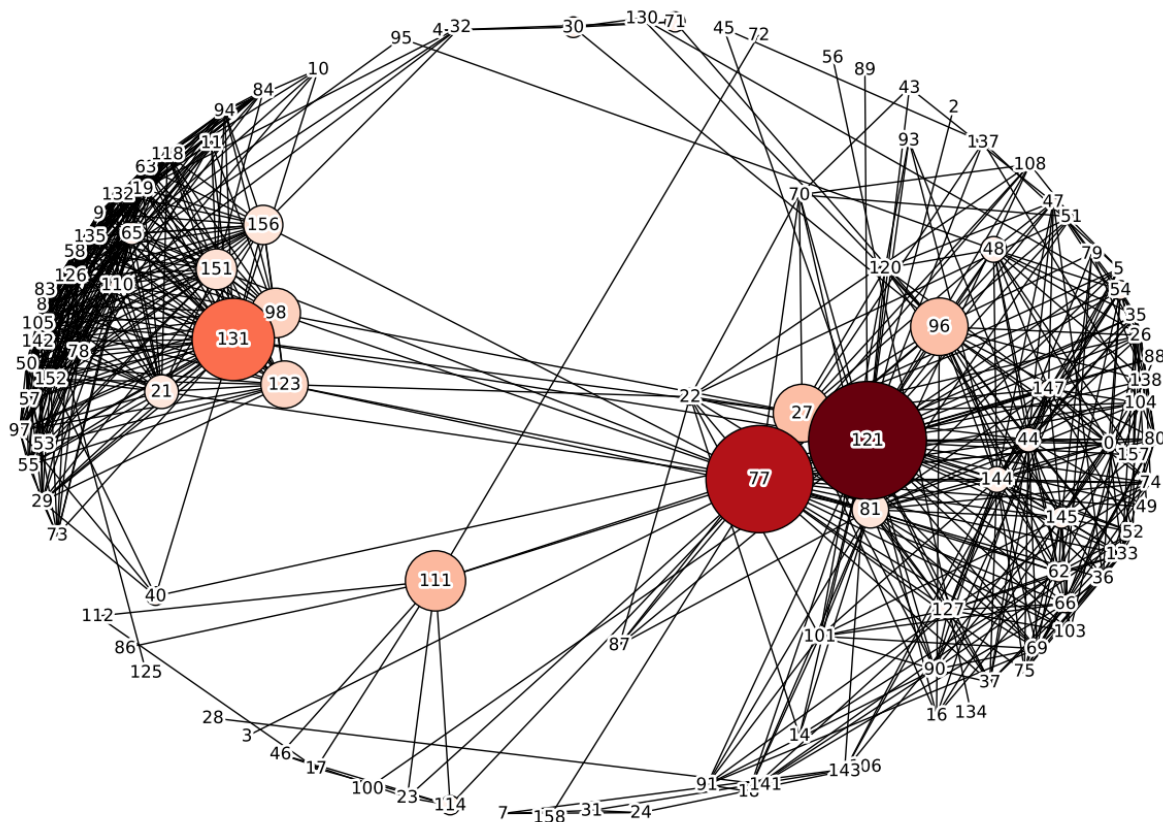
Ярослав Мельников (121)



Алина Бушунова (77)

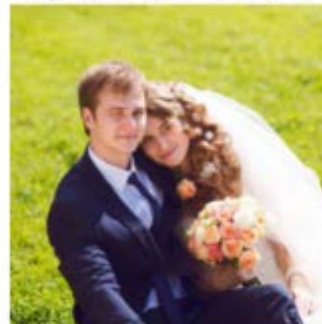


Structural Analysis



Picture 5. Degree centrality and TOP-5 nodes.

Ярослав Мельников (121)



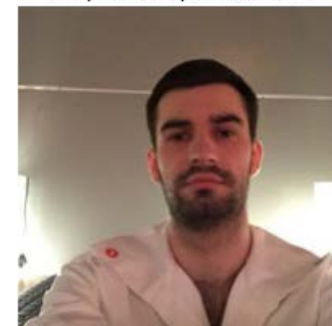
Алина Бушунова (77)



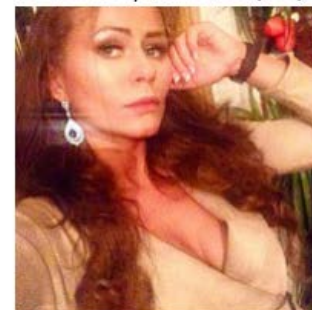
Игорь Данилов (131)

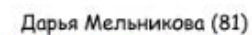
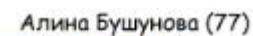


Андрей Шелудченко (65)

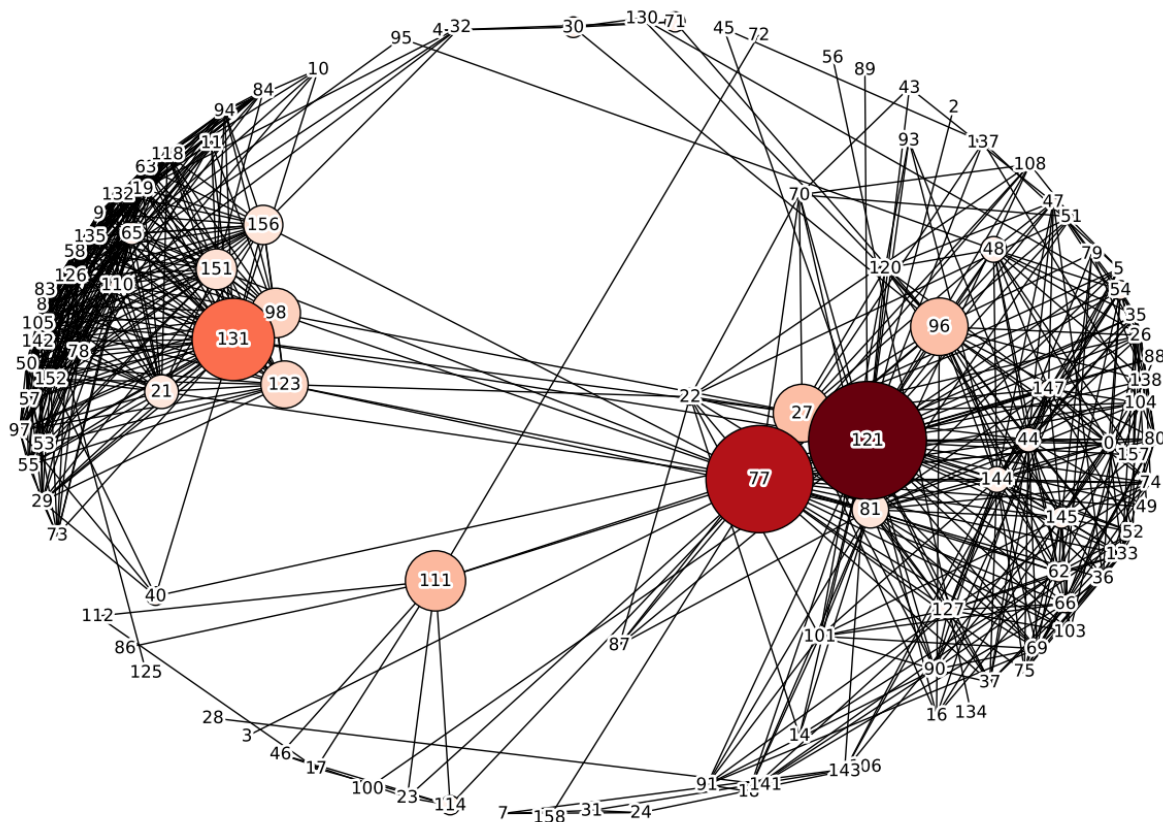


Татьяна Суздальцева (144)



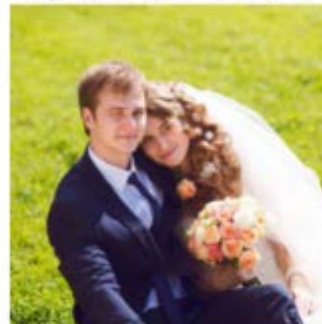


Structural Analysis



Picture 7. Closeness centrality and TOP-5 nodes.

Ярослав Мельников (121)



Алина Бушунова (77)



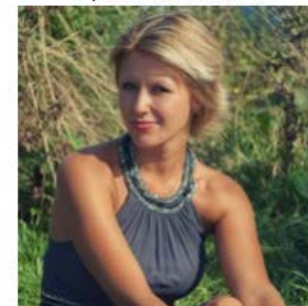
Игорь Данилов (131)



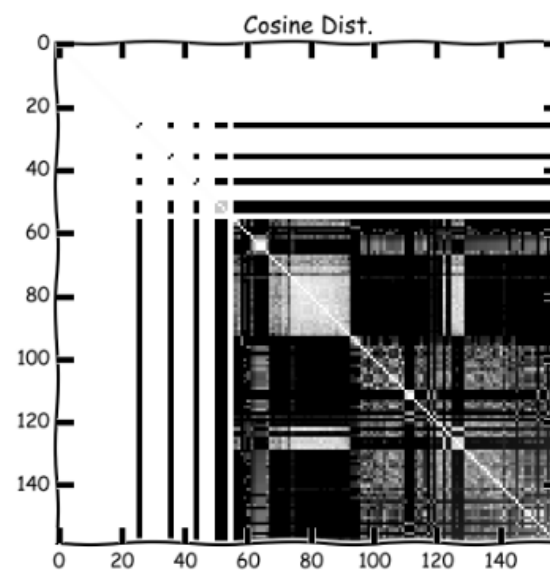
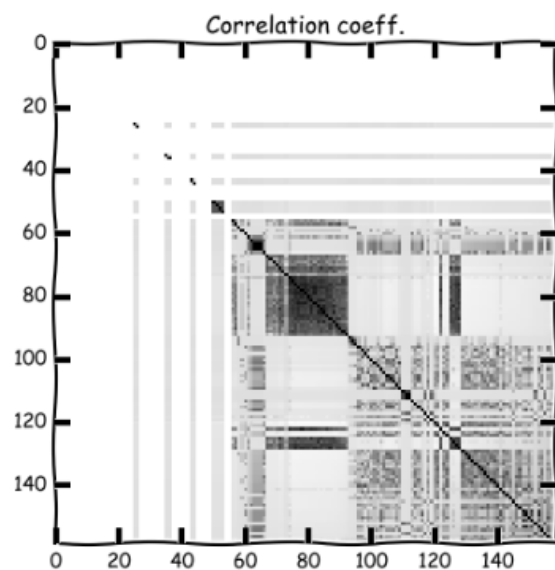
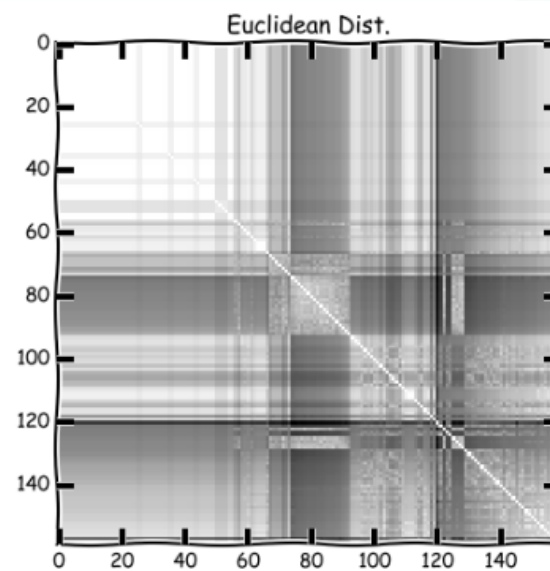
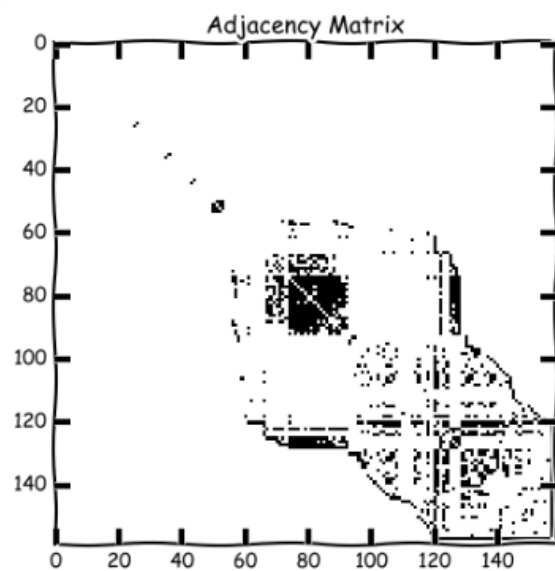
Венцеслав Печкин (27)



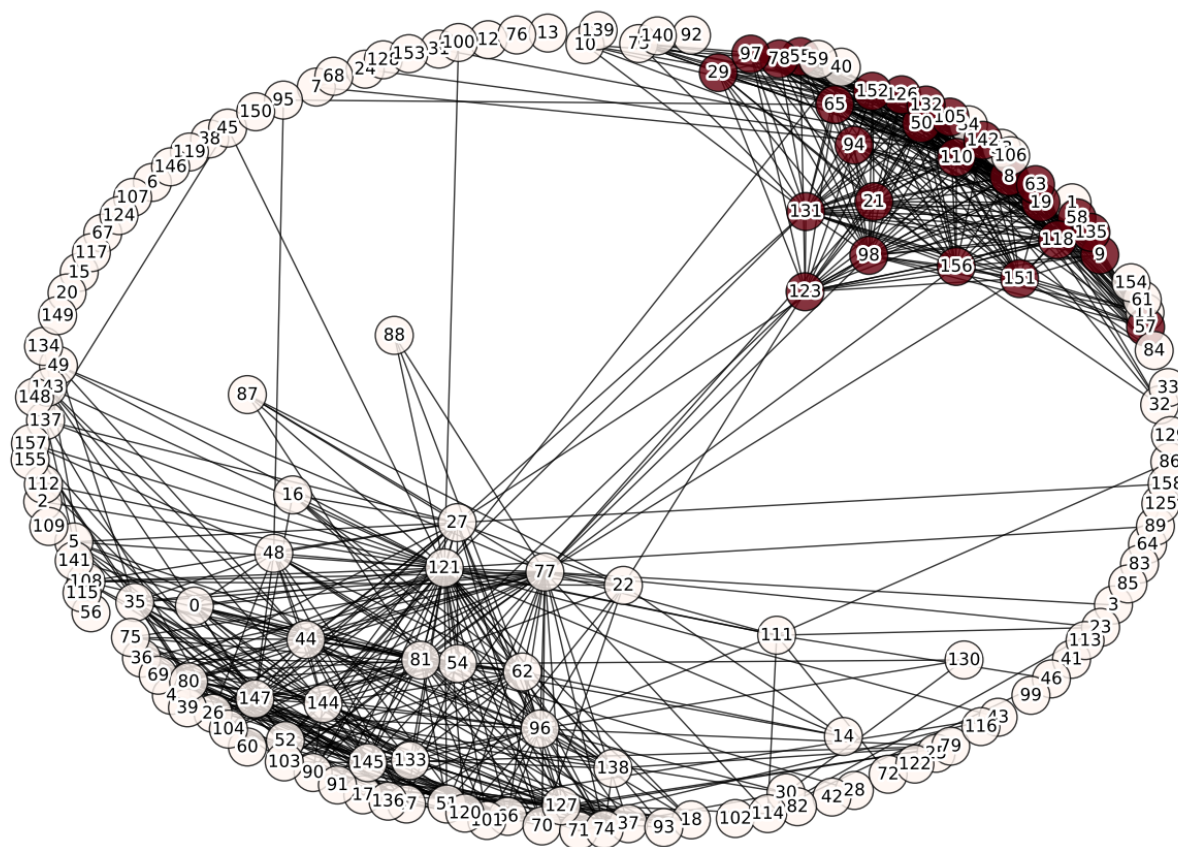
Ирина Агеева (111)



Structural Analysis

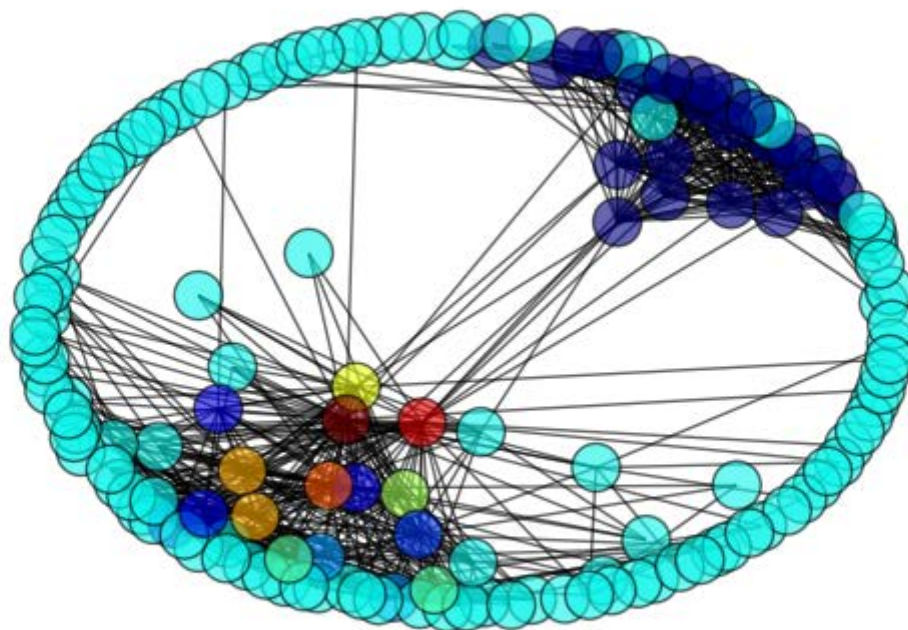


Community detection



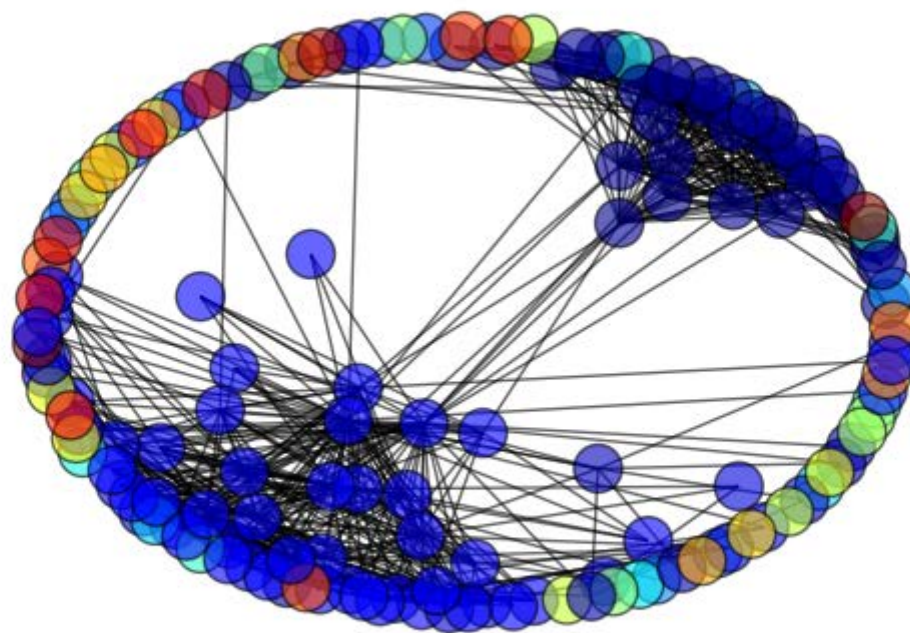
Picture 9. 10-cliques of the graph.

Community detection



Picture 10. Metric = euclidean'

Community detection



Picture 11. Metric = 'jaccard'