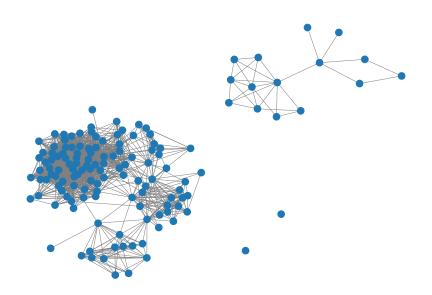
Network Science. Project 1

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> Москва, 2020 г.

Описание графа друзей



Описание графа друзей

Свойства

• Вершин: 138

• Ребер: 1556

• Диаметр: 5

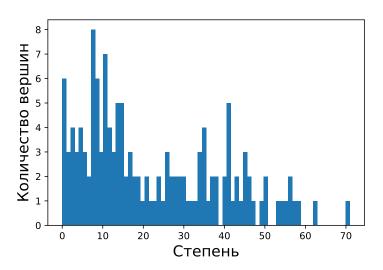
• Коэффициент кластеризации: 0.62

Аттрибуты вершин

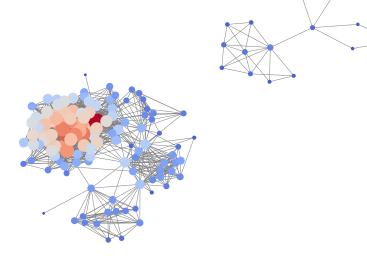
• Город

• Университет

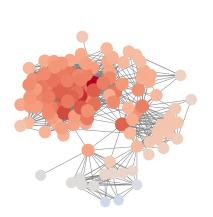
Описание графа друзей



Degree centralities

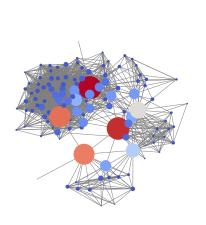


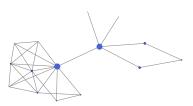
Closeness centralities



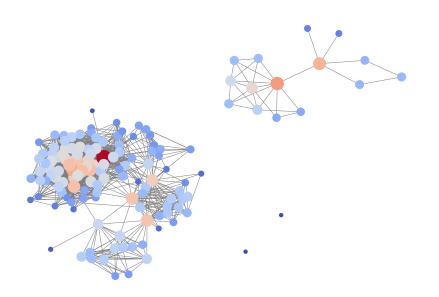


Betweenness centralities

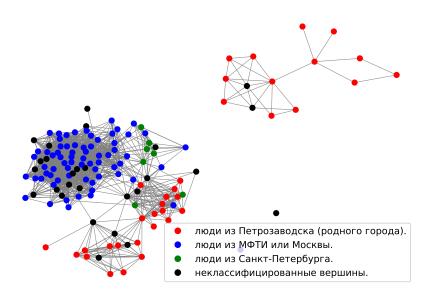




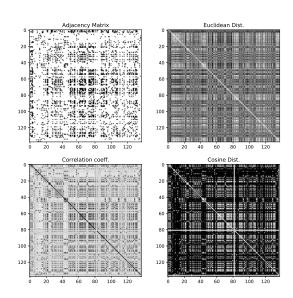
Pagerank



Assortative mixing



Node structural similarity

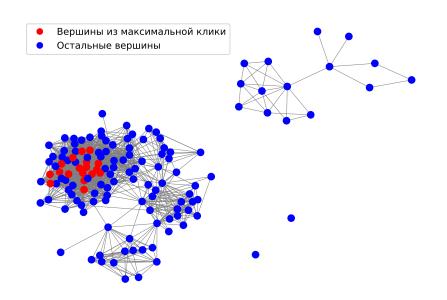


The closest random graph model

Рассмотрим распределение степени вершины при разных моделях.

model	degree	loglikelihood
	distribution	
Erdos-Renyi uniform model	Bin(n-1,0.5)	-6004.14
Erdos-Renyi binomial model	Pois(22.57)	-1195.32
Preferential attachment model	Power(-3)	-1155.82

Clique search



Community detection (Markov Clustering Algorithm)

