

Анализ социальной сети

Сиражетдинов Руслан 10.11.22

Загрузил

Закешировал

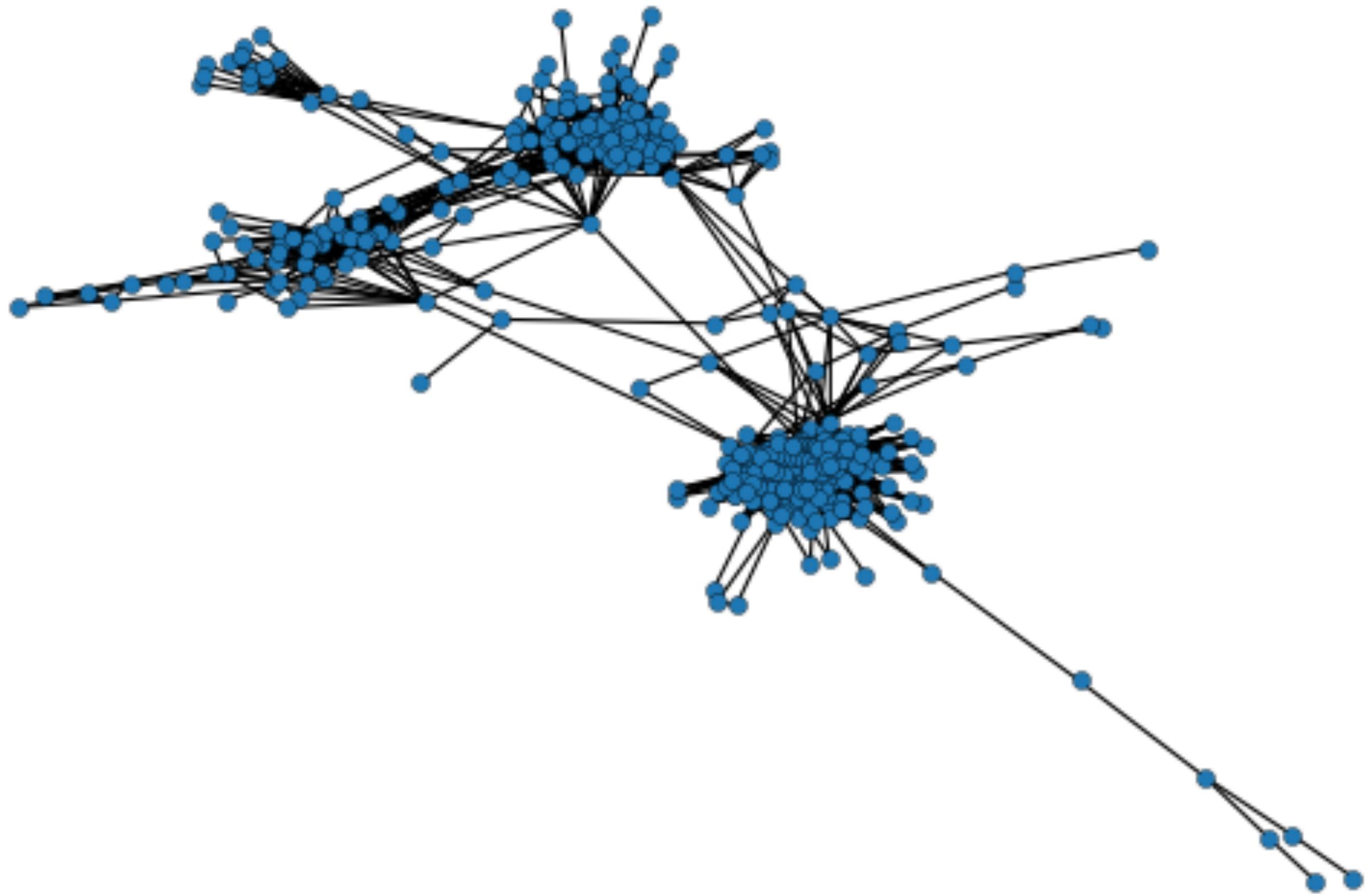
Удалил себя

Оставил DiGraph / Graph

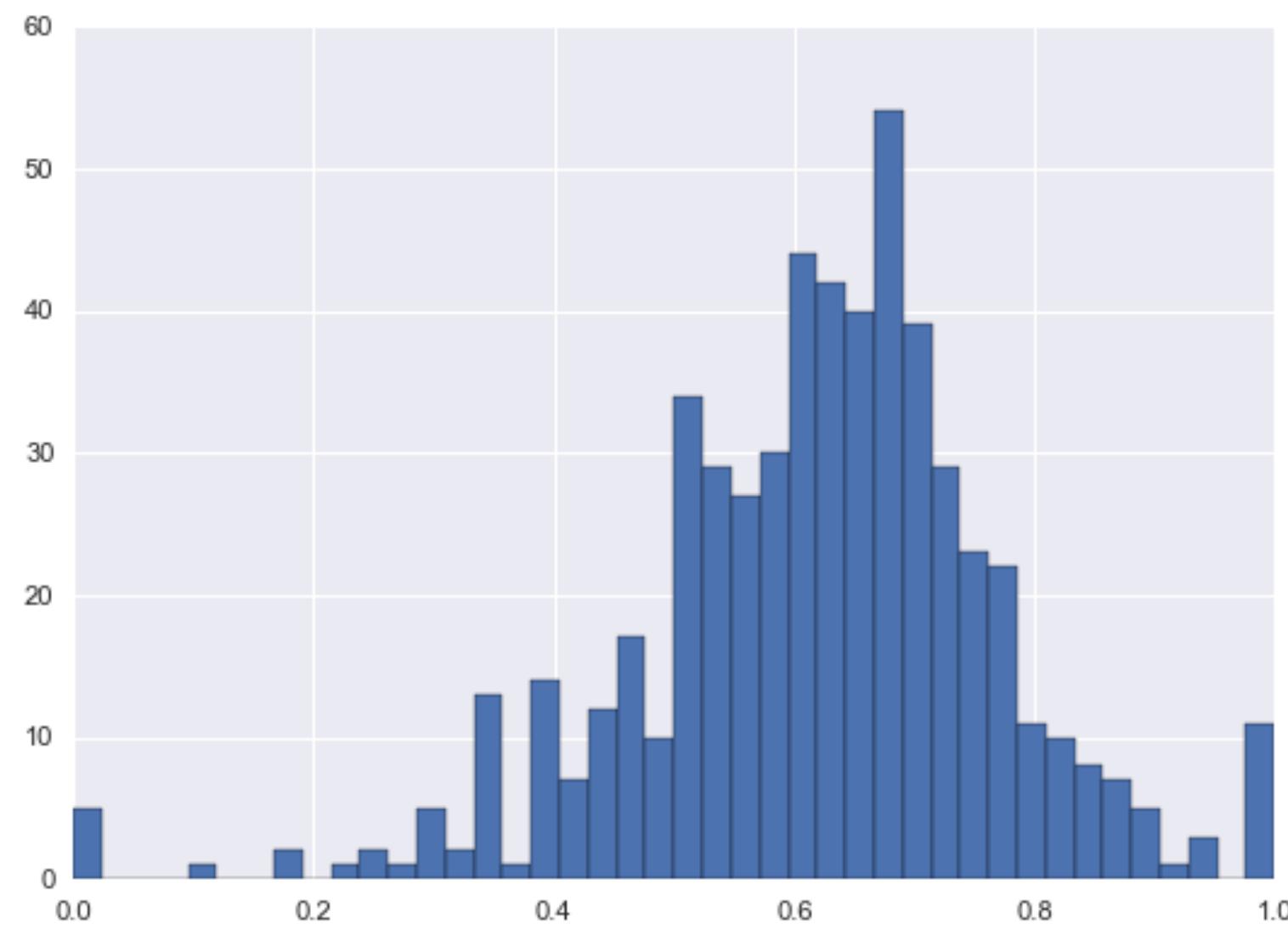
Выделил главную компоненту



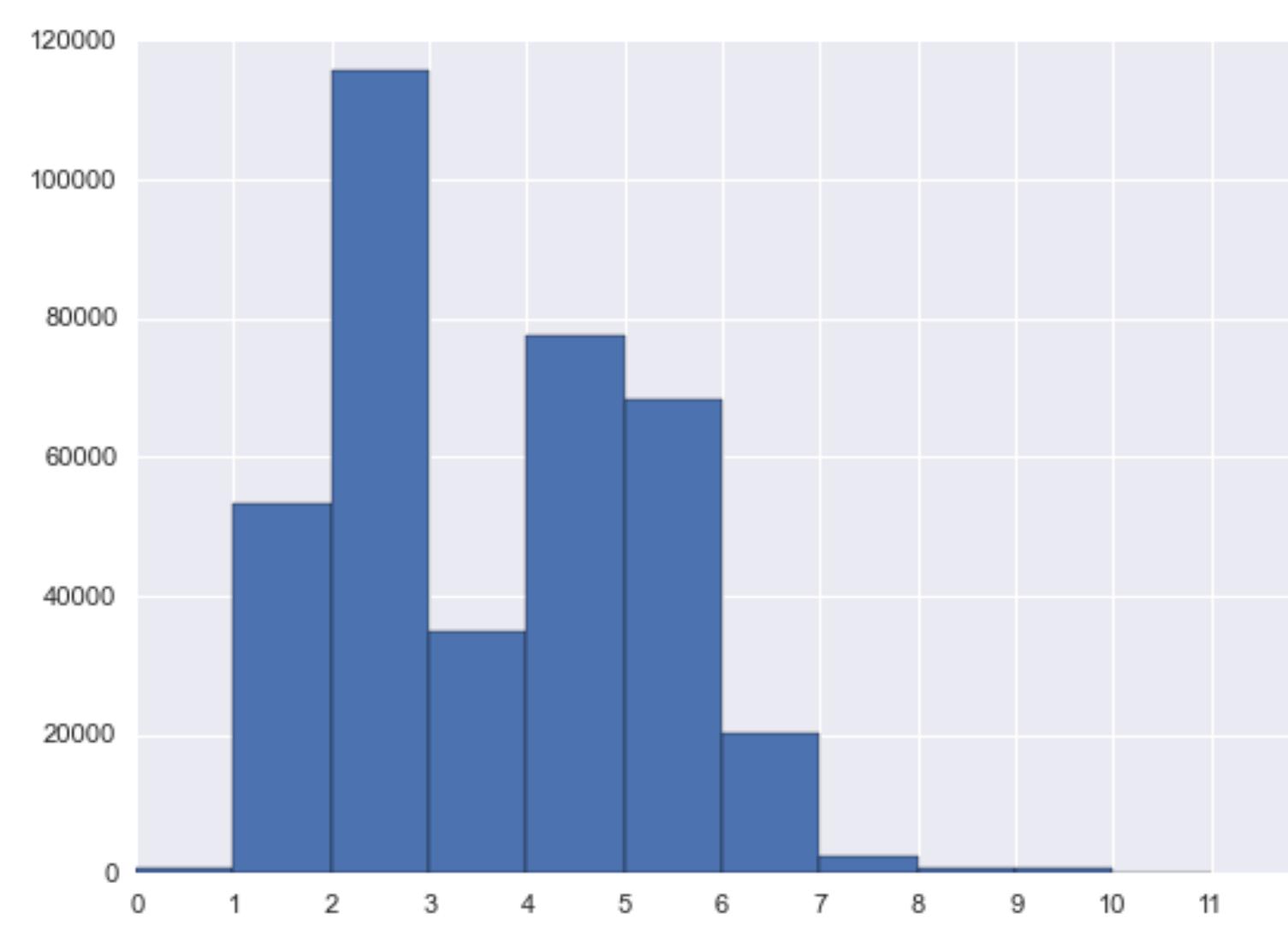
Выделил главную компоненту



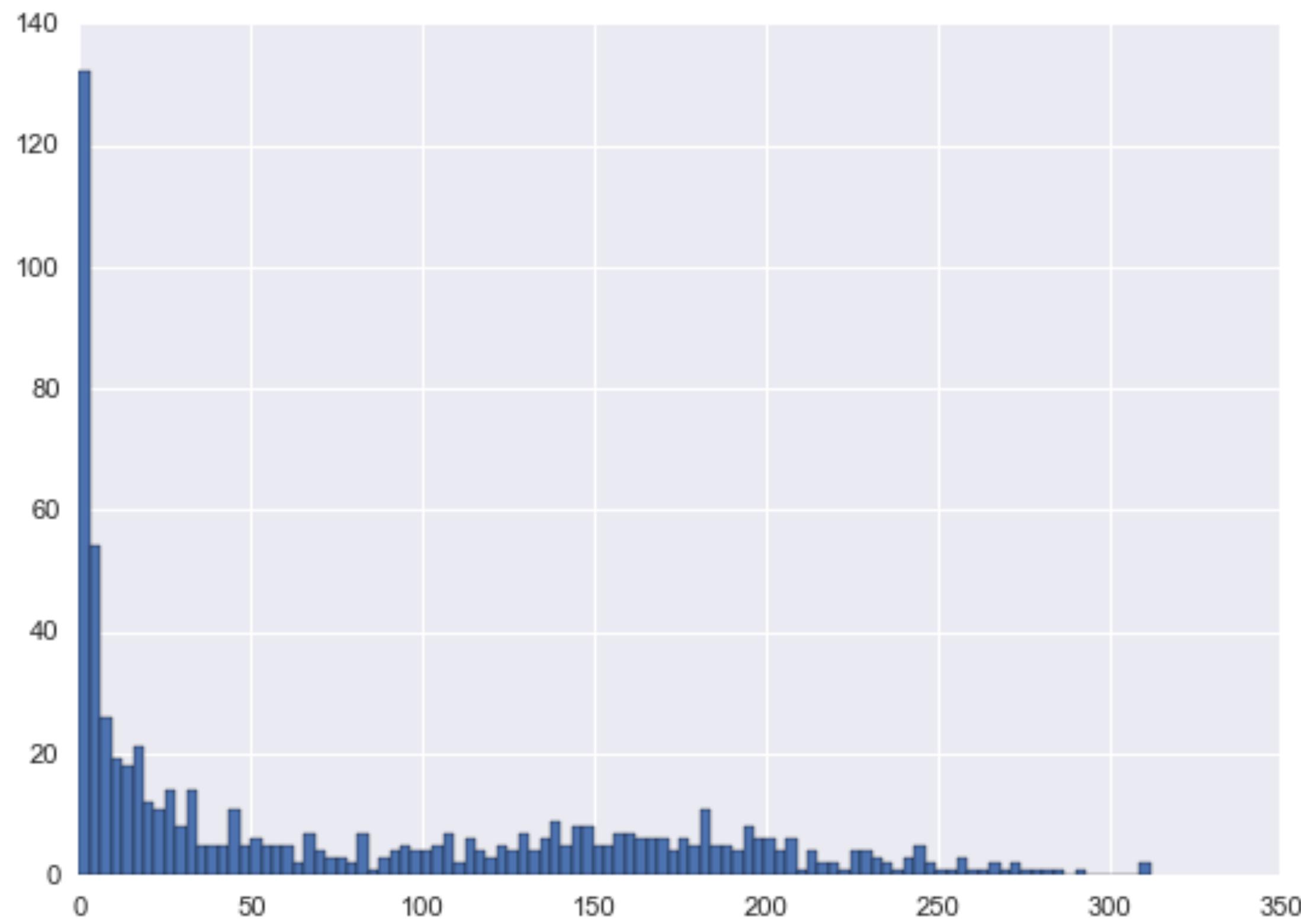
Радиус	Диаметр	Средний коэффициент кластеризации	Глобальный коэффициент кластеризации	Средняя длина кратчайшего пути
6	11	0.58	0.61	3.18



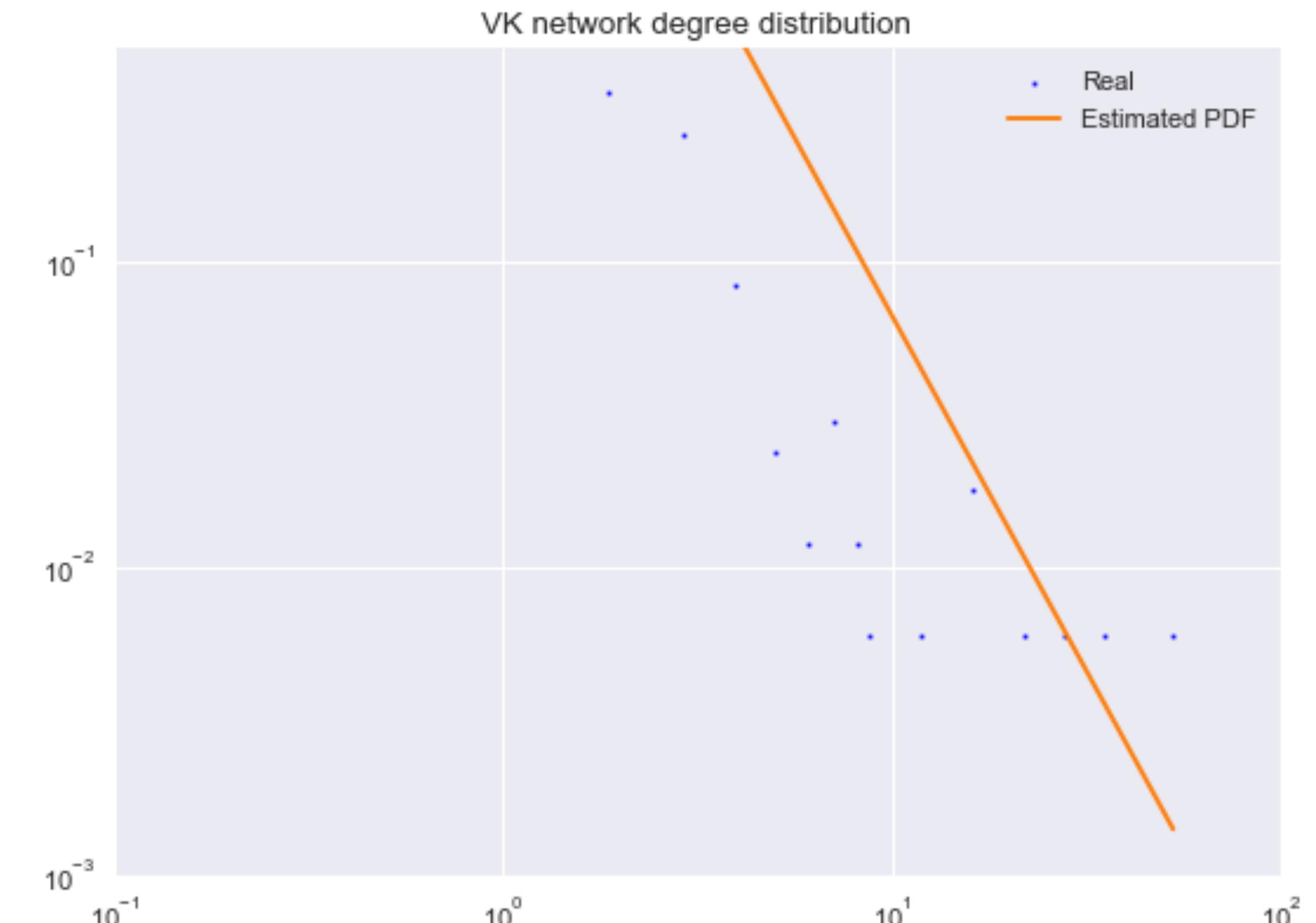
Распределение коэф-ов кластеризации



Распределение кратчайших путей

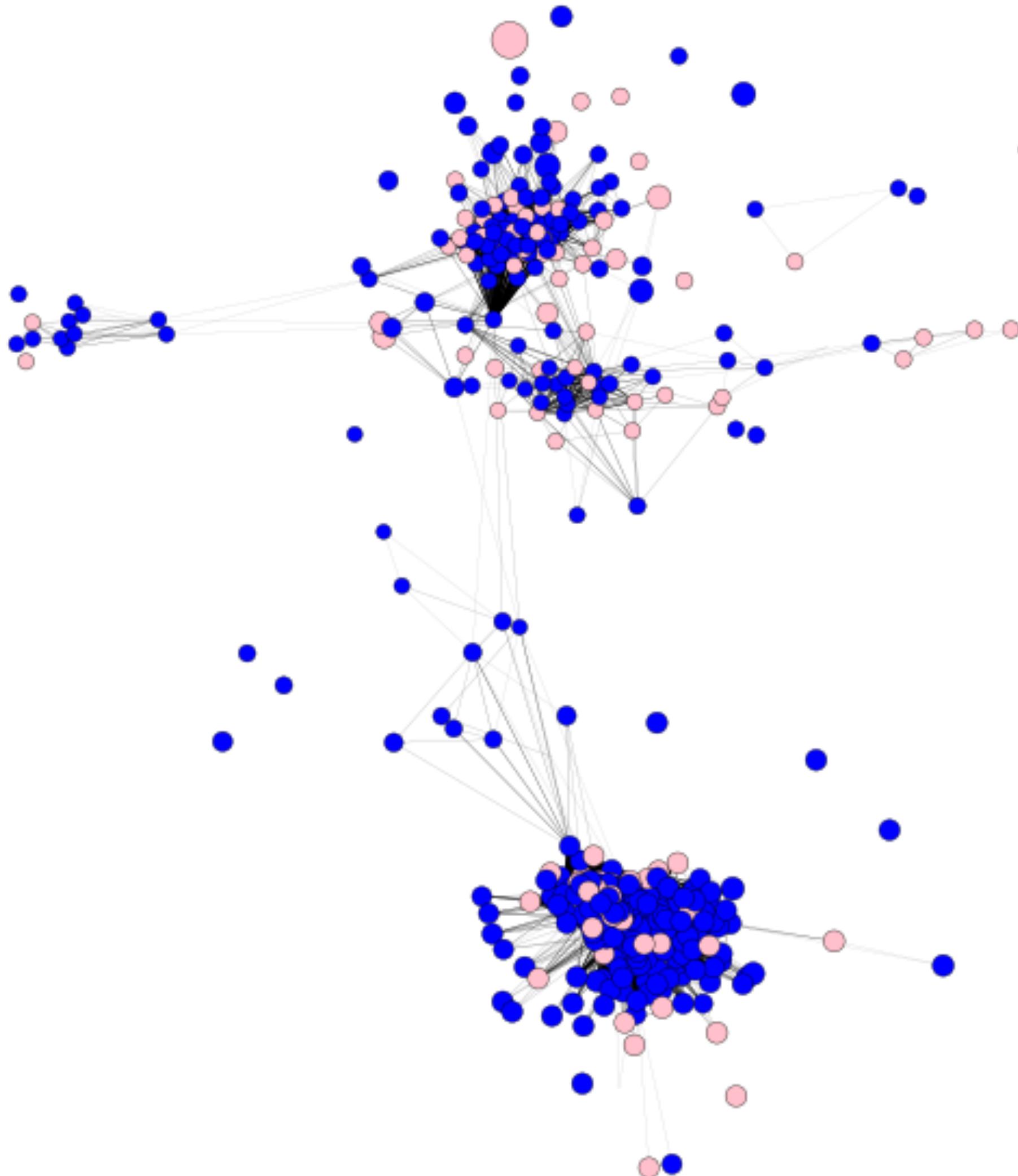


Распределение степеней



Подобранное распределение степеней

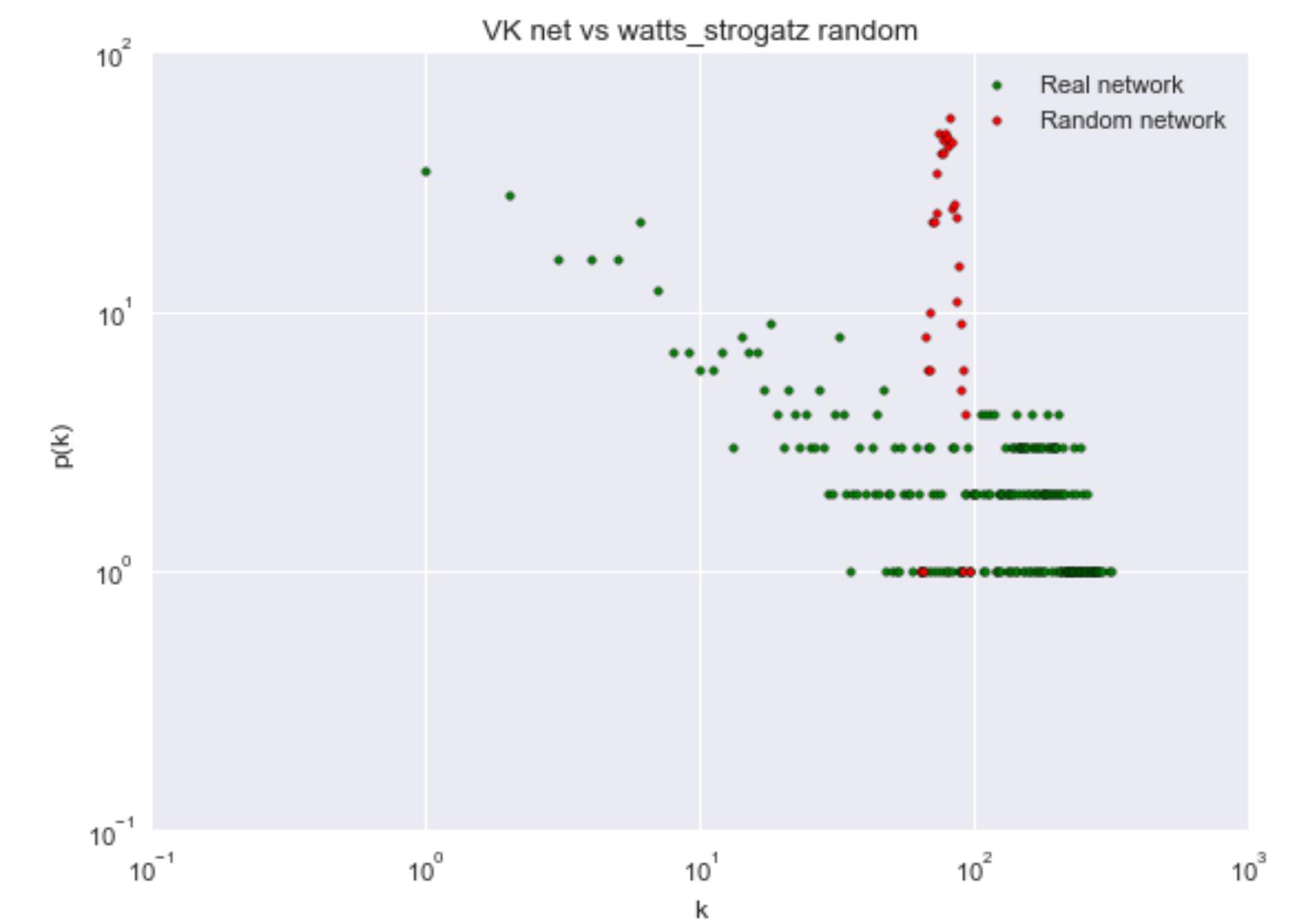
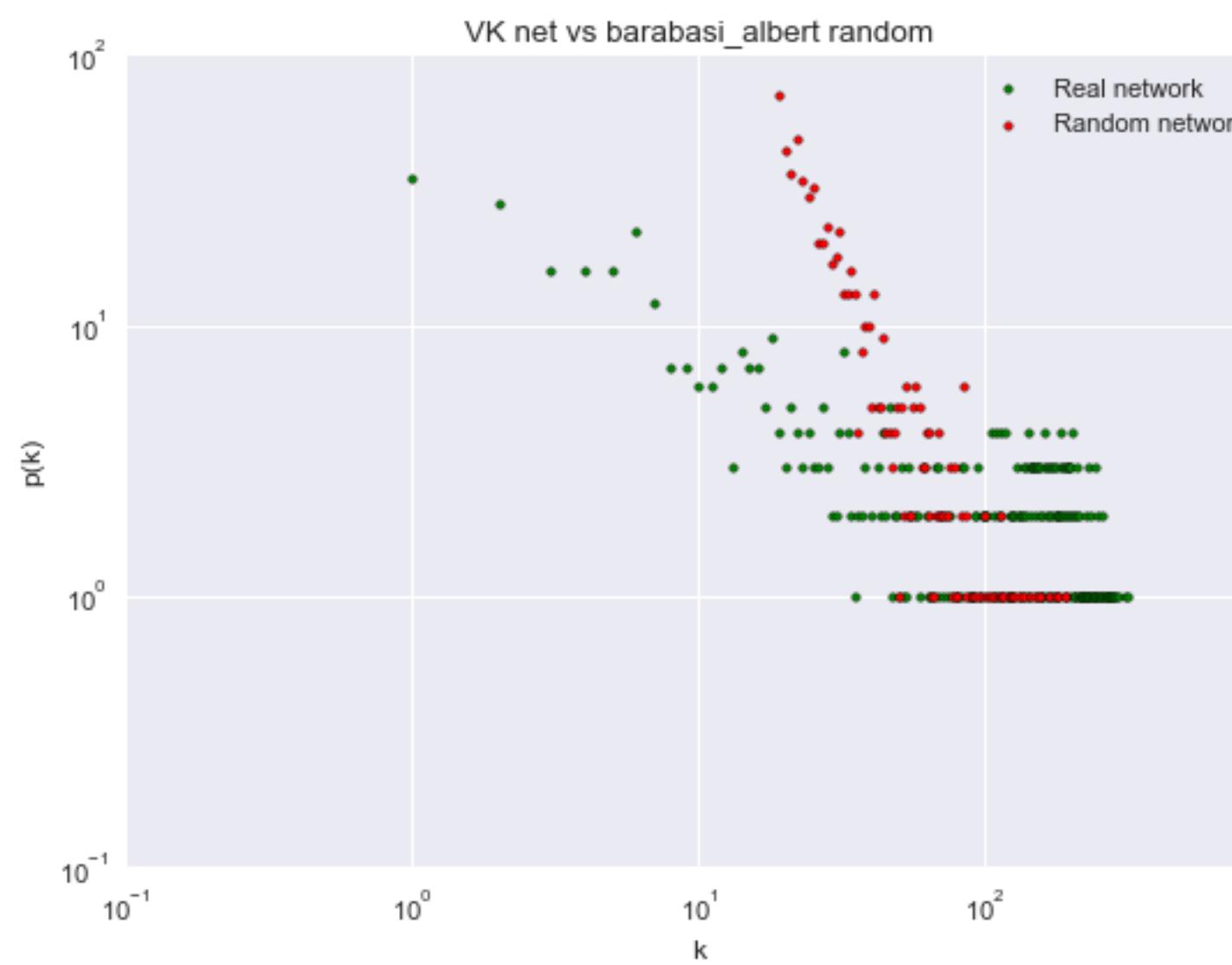
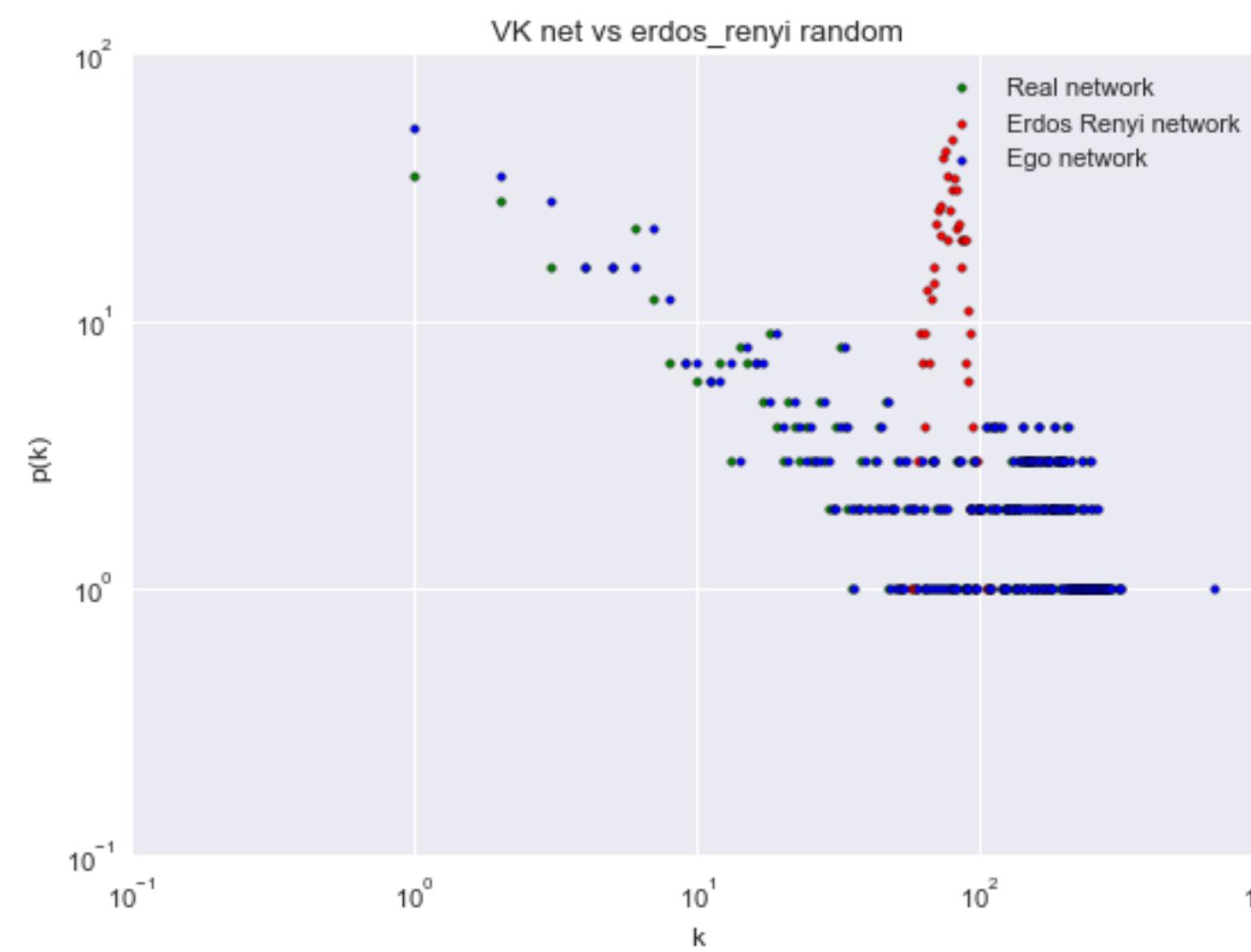
**Лучшие параметры power law с помощью ММП и КС теста
 $\alpha=2.3$ $x_{\min}=6$**



Средний возраст моих друзей 33

Граф по количеству общих друзей, полу и возрасту.
Возраст - средний среди друзей

info for graph Friends net	
average path length	3.19
diameter	11.00
average clustering	0.58

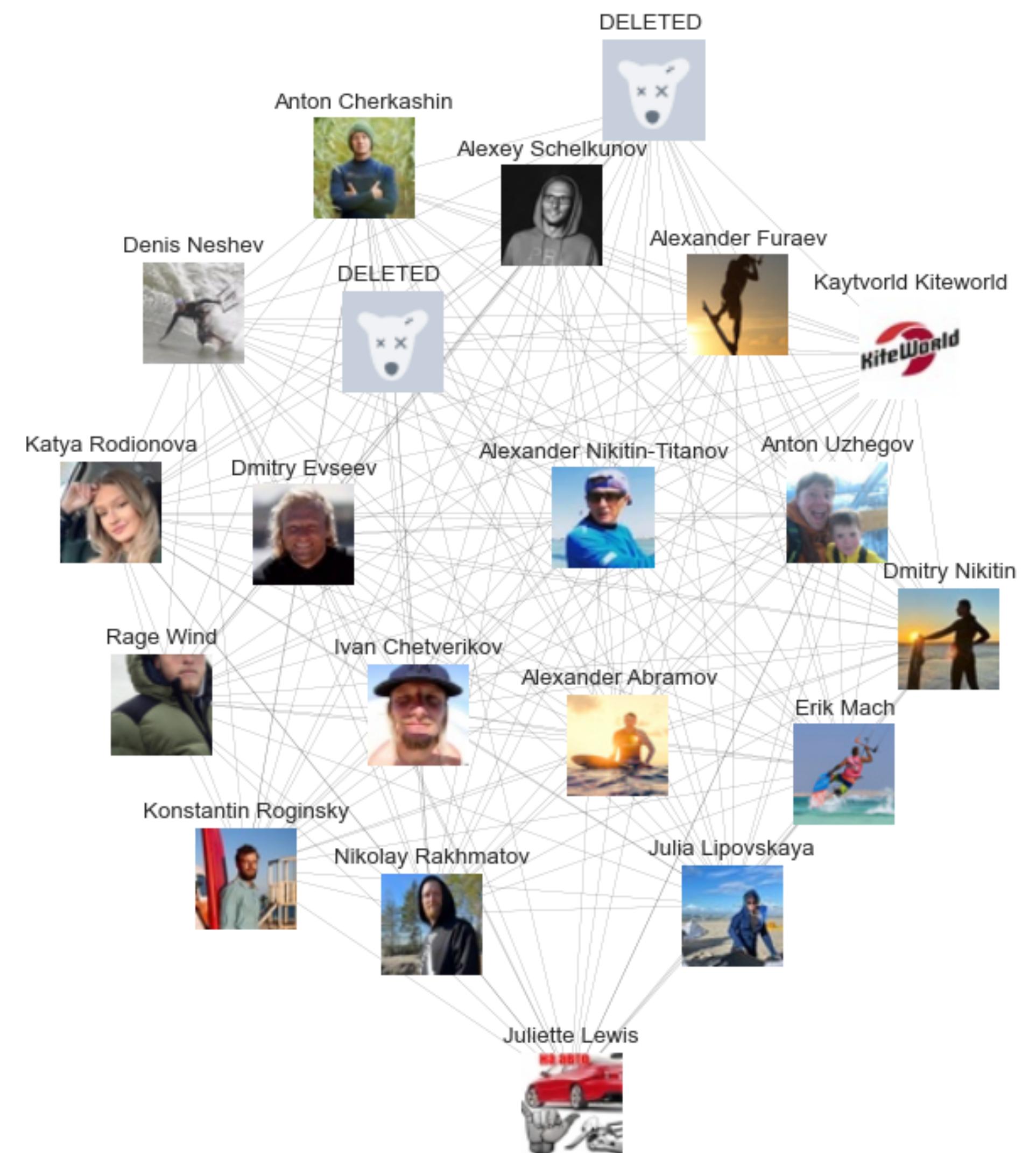
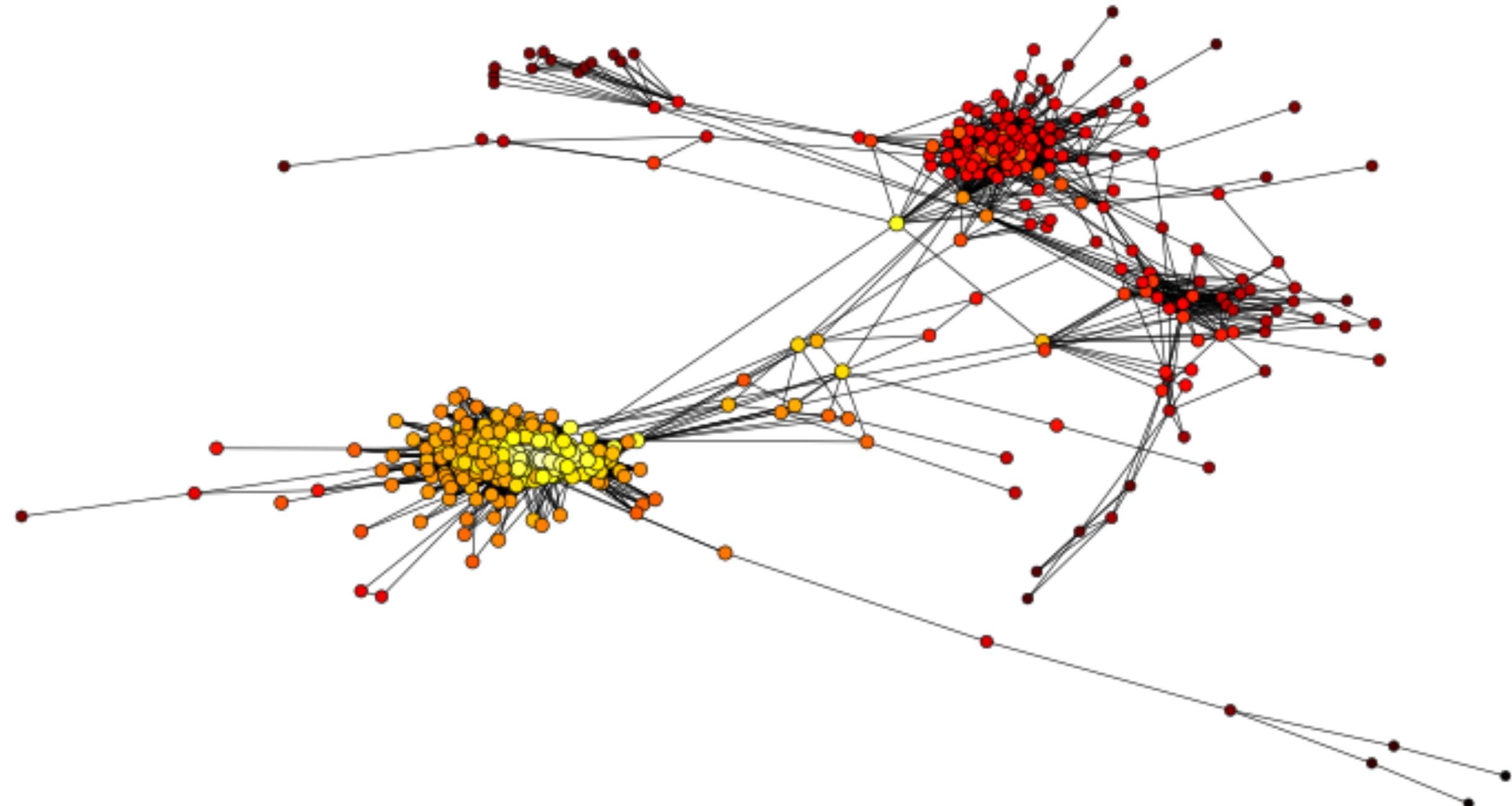


info for graph Erdos Renyi net	
average path length	1.89
diameter	3.00
average clustering	0.11

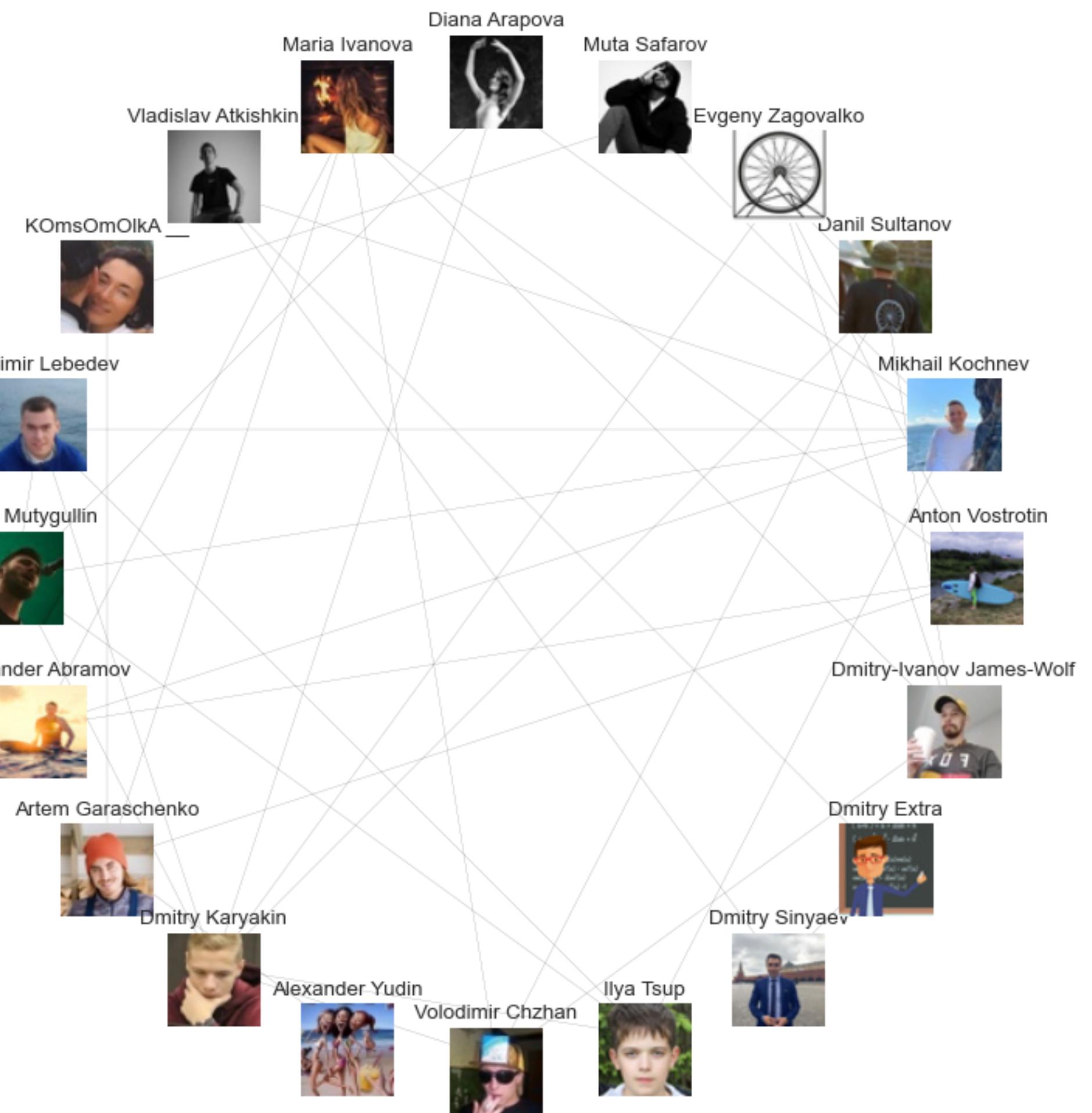
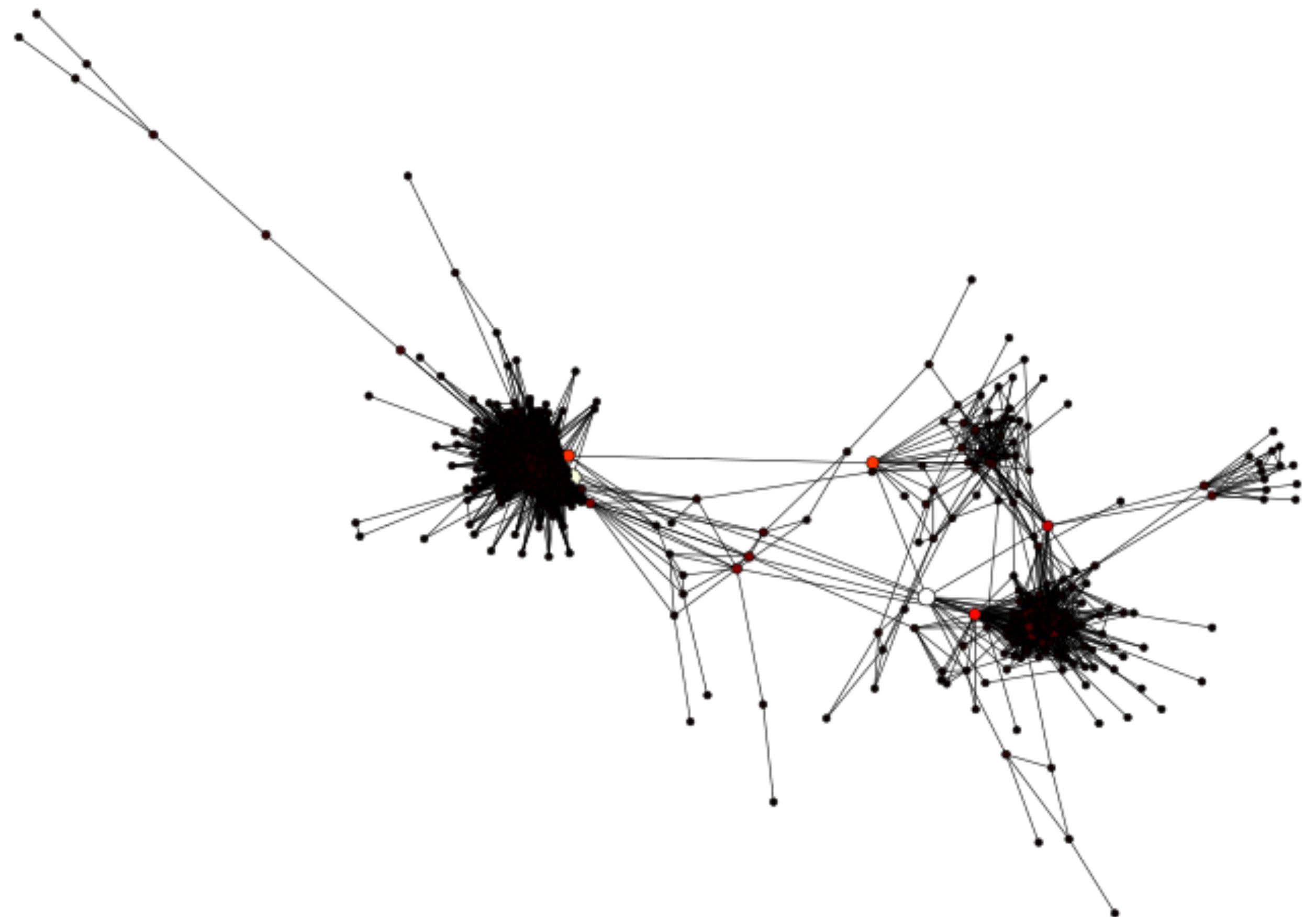
info for graph Barabasi Albert net	
average path length	2.09
diameter	3.00
average clustering	0.12

info for graph Barabasi Albert net	
average path length	1.89
diameter	3.00
average clustering	0.17

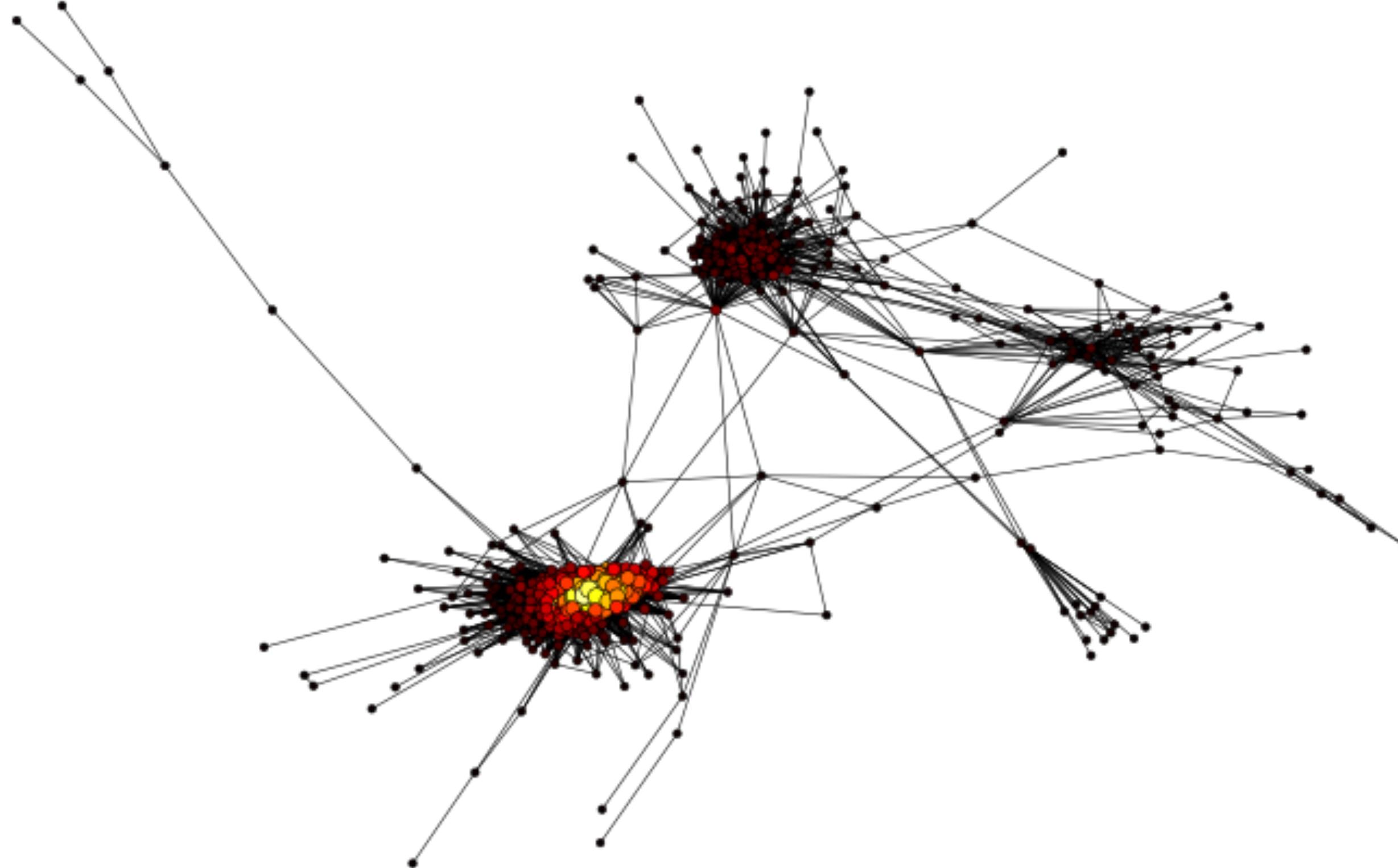
closeness centrality graph



betweenness centrality graph

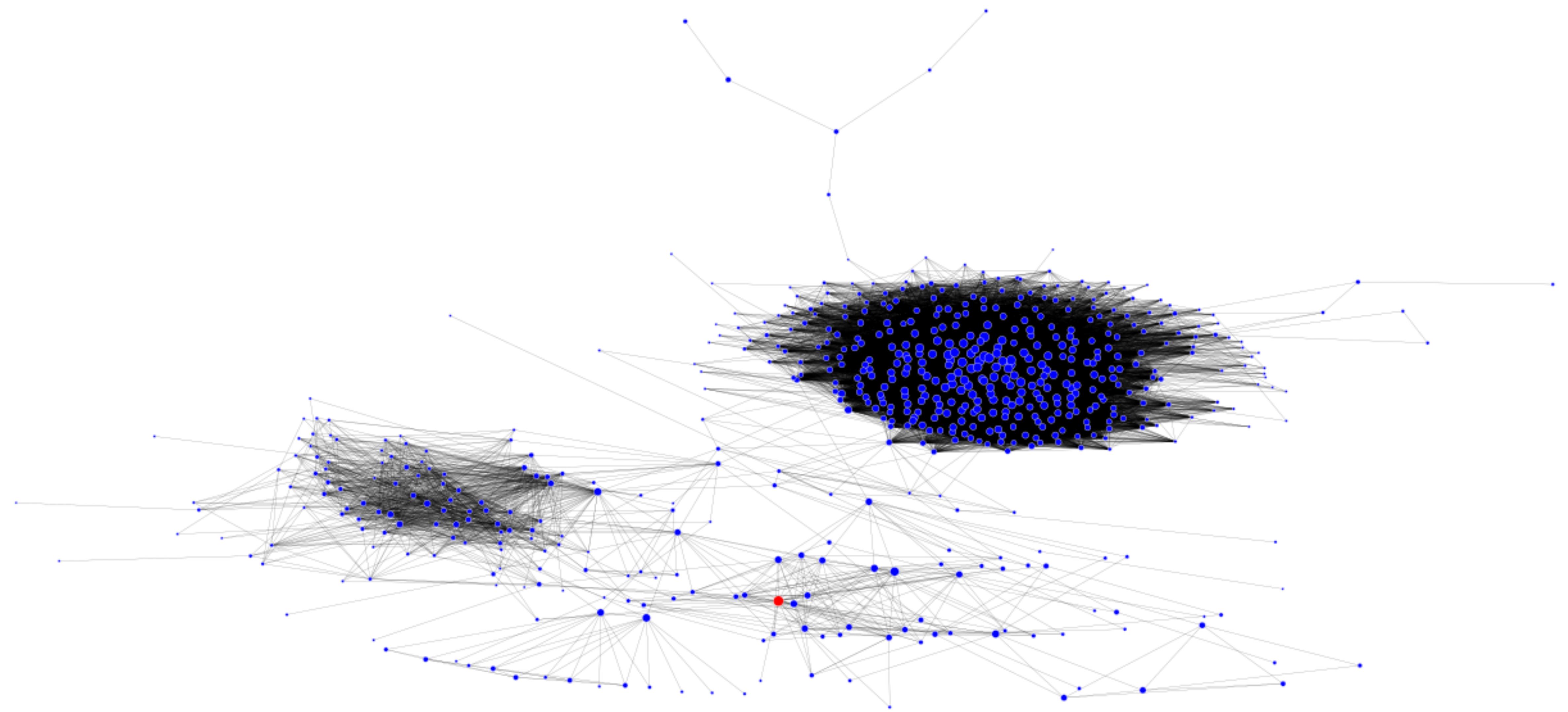


degree centrality graph

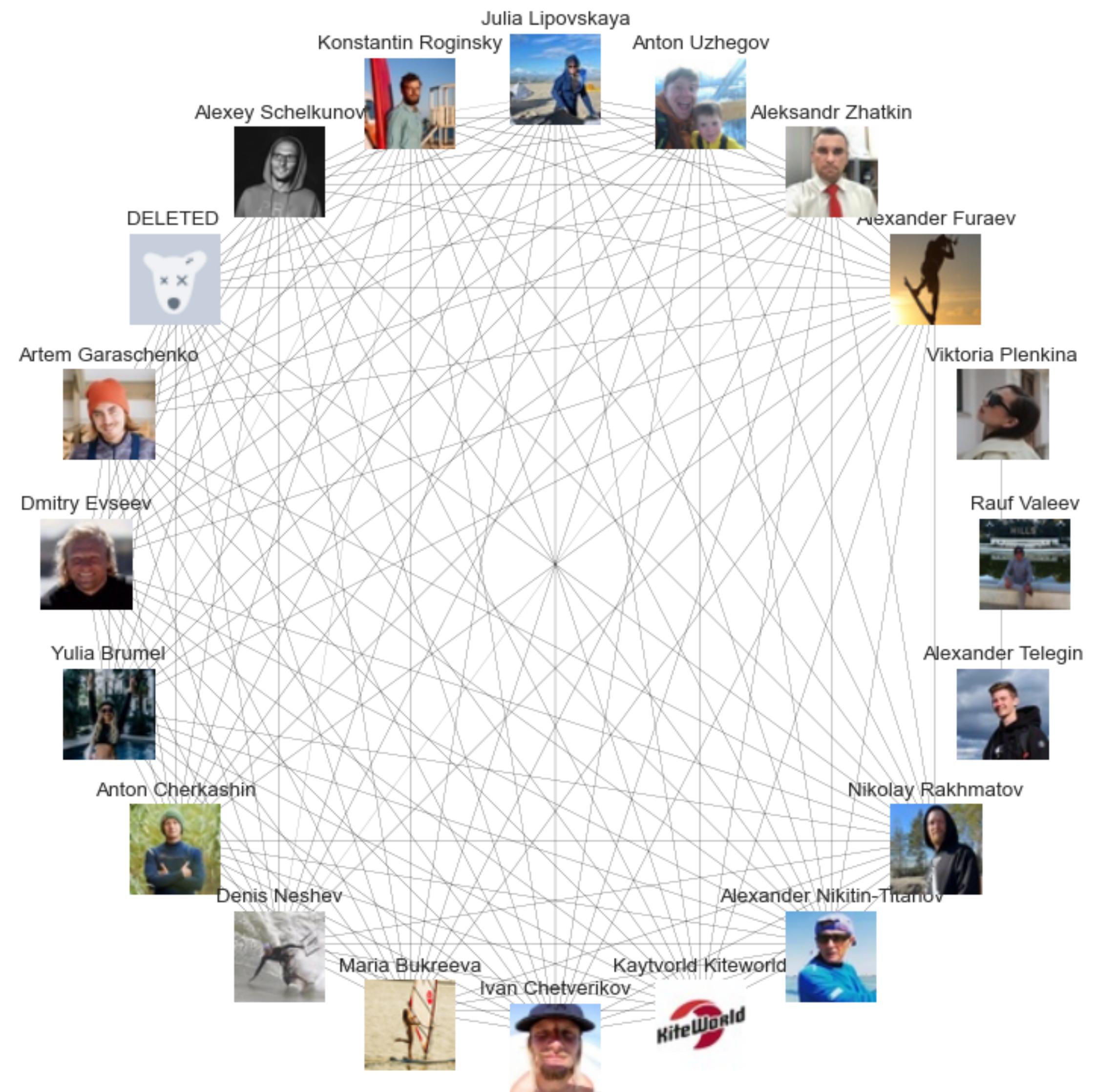


The figure is a network graph with numerous nodes, each representing a person. The nodes are arranged in a grid-like pattern. Most nodes are represented by small profile pictures of individuals. Some nodes have additional text labels or icons:

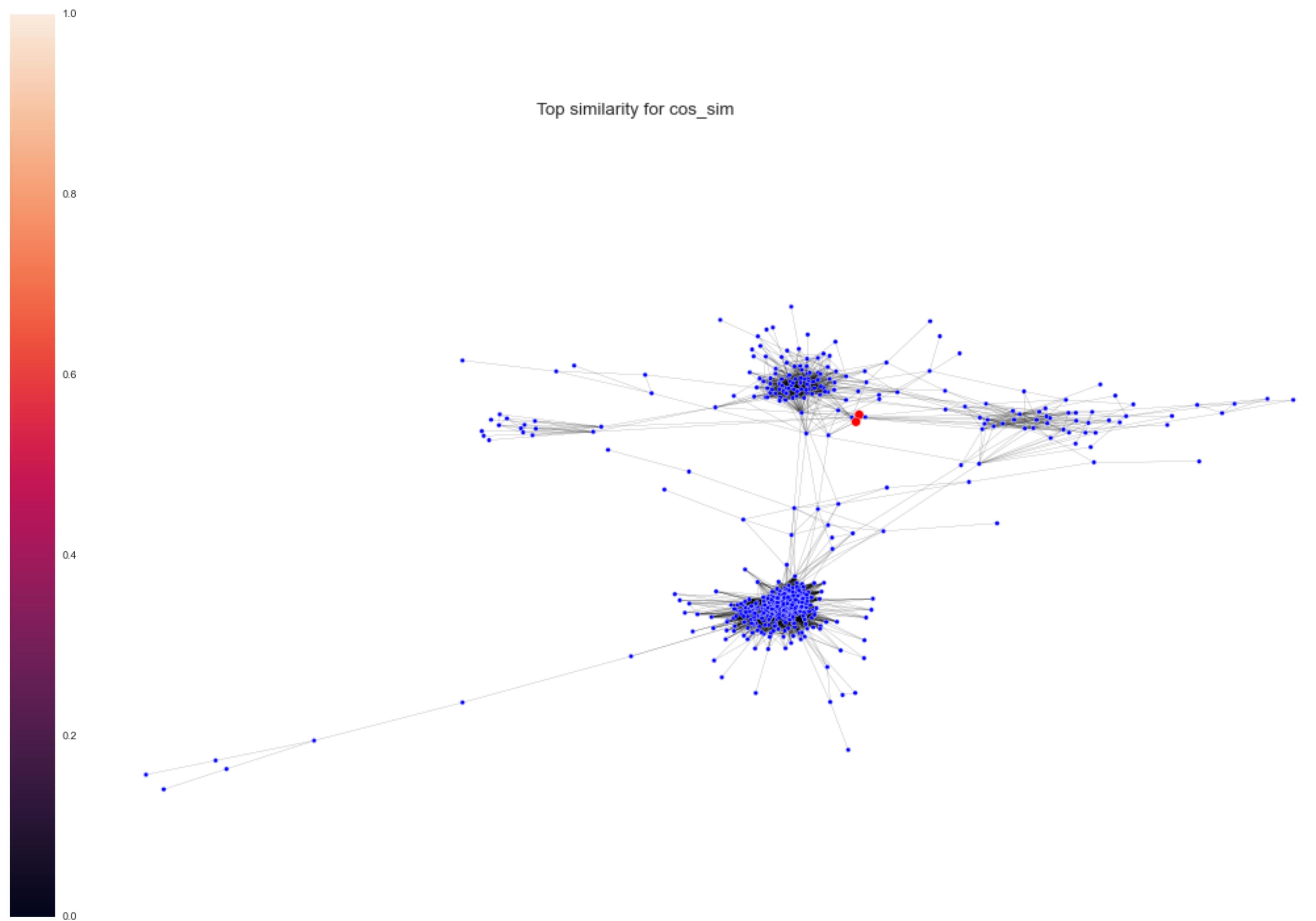
- Karen Maleryan**: Above a drawing of a person kitesurfing.
- Artem Garaschenko**: Above a photo of a person wearing a red beanie.
- DELETED**: Next to a placeholder icon of a white dog with two black 'X's.
- Konstantir**: Next to a drawing of a person kitesurfing.
- susha Ksu**: Next to a photo of a person in a yellow shirt.
- Sergey Popov**: Next to a photo of a person in a blue jacket.
- Konstantin Bobovik**: Next to a photo of a person in a yellow wetsuit.
- Polina Rikman**: Next to a photo of a person in a blue wetsuit.
- Ilya Lisovsky**: Next to a photo of a person in a blue wetsuit.
- Ivan Chetverikov**: Next to a logo for 'SSSR'.
- Ivan Povodyrev**: Next to a photo of a person in a blue wetsuit.
- Sergey Borisov**: Next to a photo of a person in a red wetsuit.
- Elena Antokh**: Next to a photo of a person in a yellow wetsuit holding a trophy.
- Kolya Gol**: Next to a photo of a person in a green shirt.
- Anton Svizhevsky**: Next to a photo of a person in a white shirt.
- Aleksandr Zhatkin**: Next to a photo of a person in a blue cap.
- Evgeny Isakov**: Next to a photo of a person in a white shirt.
- Alla Denisova**: Next to a photo of a person in a red wetsuit.
- Kaytworld Kiteworld**: Next to a logo for 'KiteWorld'.
- Katyia Rodionova**: Next to a photo of a person in a white shirt.
- Vyacheslav Yakovlev**: Next to a photo of a person in a blue wetsuit.
- Anton Uzhegov**: Next to a photo of a person in a blue wetsuit.
- Anton Cherkashin**: Next to a photo of a person wearing a mask.
- Roman Polyanin**: Next to a photo of a person in a black t-shirt.
- Tatyana Sysoeva**: Next to a photo of a person in a white shirt.
- Maria Bukreeva**: Next to a photo of a person in a blue wetsuit.
- Alexander Nikitin-Titanov**: Next to a photo of a person in a blue wetsuit.
- Vitya Born**: Next to a photo of a person in a white shirt.
- Rage Wind**: Next to a photo of a red sports car.
- Juliette Lewis**: Next to a photo of a person in a blue sweater.
- Dmitry Evseev**: Next to a photo of a person in a green jacket.
- DELETED**: Next to a placeholder icon of a white dog with two black 'X's.
- Denis Neshev**: Next to a photo of a person in a black wetsuit.
- Garik Nikoyan**: Next to a photo of a person in a black wetsuit.
- Alexander Vashlyan**: Next to a photo of a person in a white shirt.
- Dima Karpenko**: Next to a photo of a person in a blue hoodie.
- Anastasia Malinina**: Next to a photo of a person in a white hoodie.
- Andrey Lisov**: Next to a photo of a person in a white hoodie.
- Dmitry Nikitin**: Next to a photo of a person in a white hoodie.
- Erik Mach**: Next to a photo of a person in a pink wetsuit.
- Nikolay Rakhmatov**: Next to a photo of a person in a white shirt.
- Rage Wind**: Next to a photo of a red sports car.
- DELETED**: Next to a placeholder icon of a white dog with two black 'X's.
- Maxim Feskov**: Next to a photo of a person in a black wetsuit.

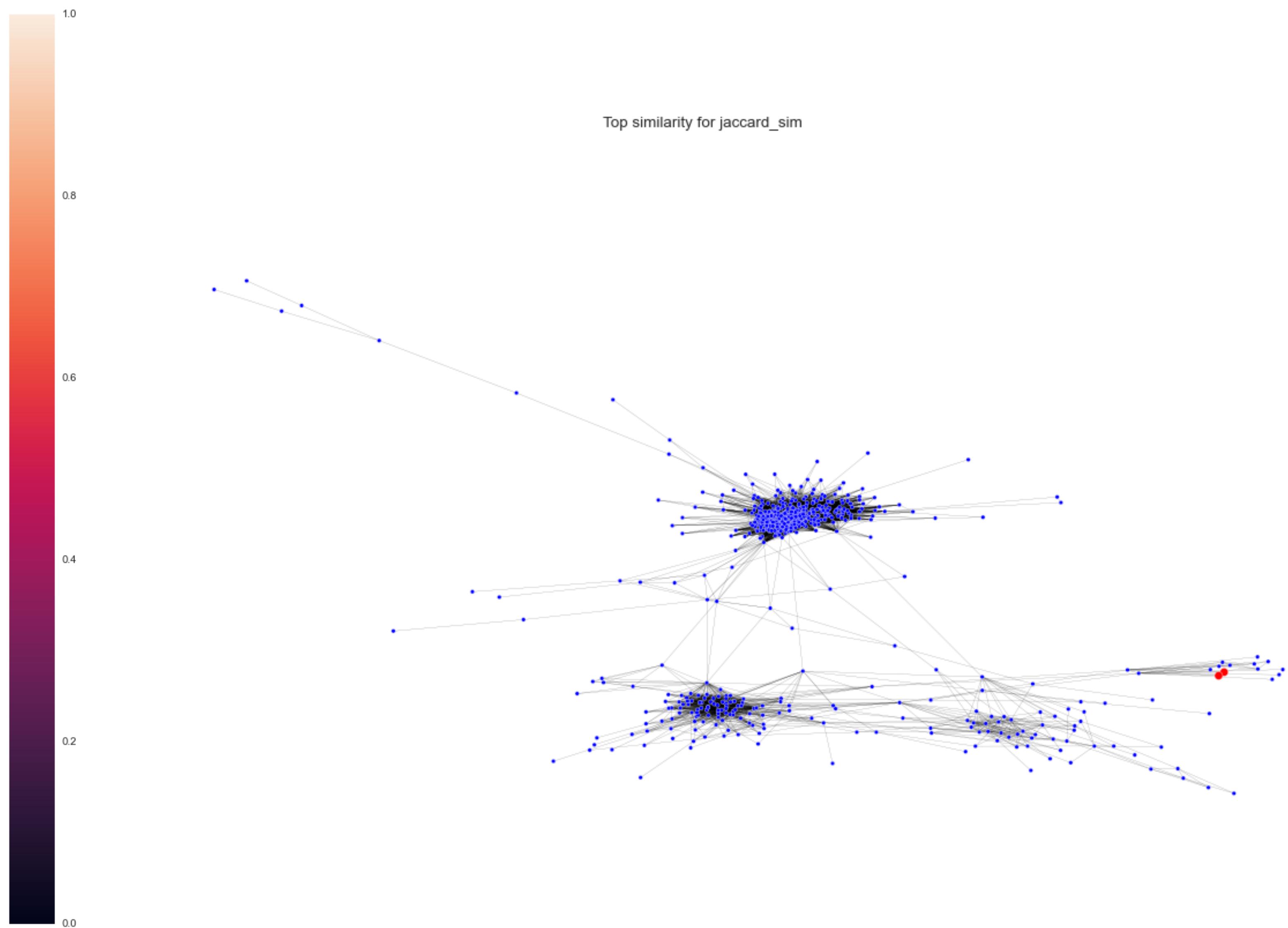


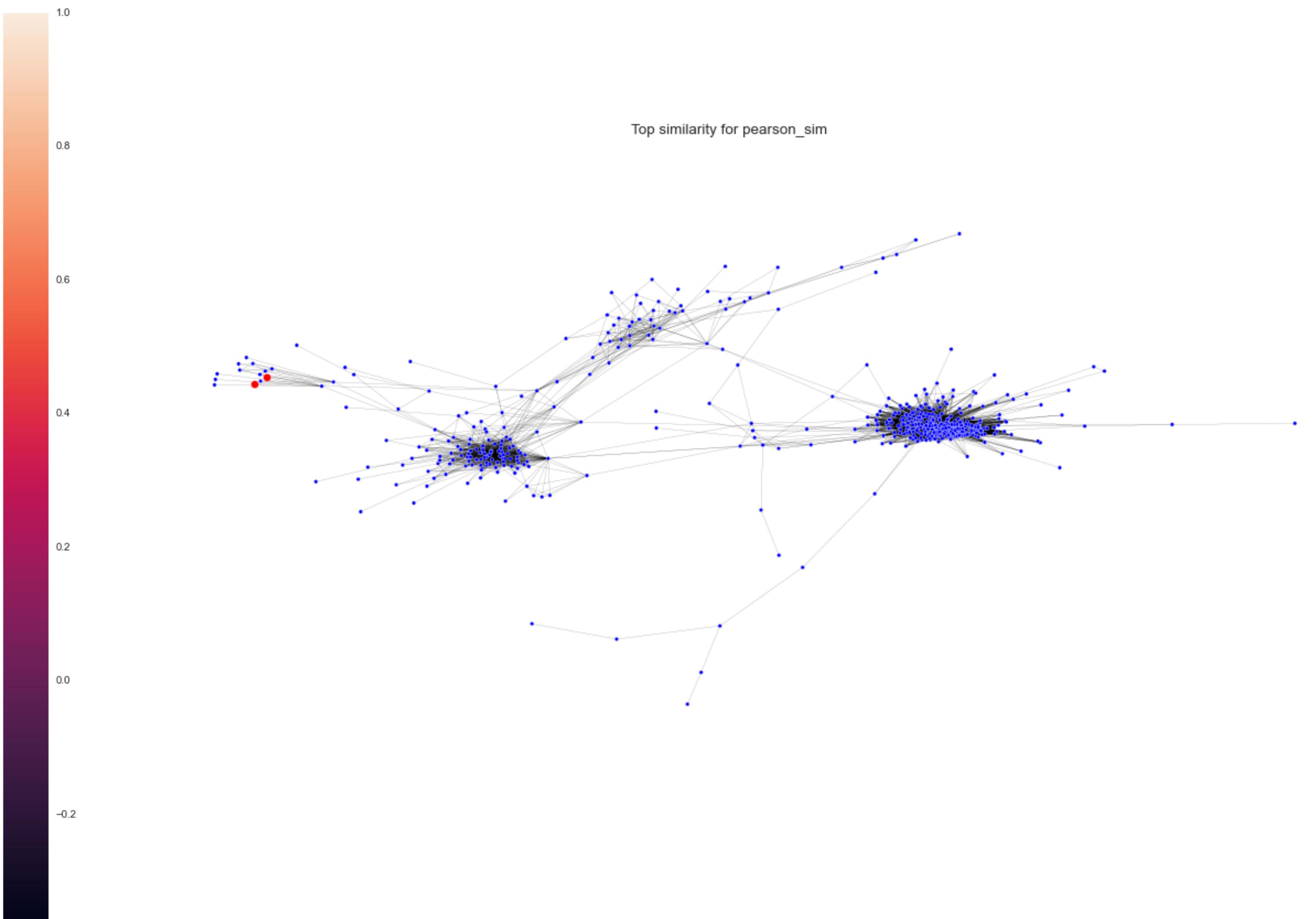
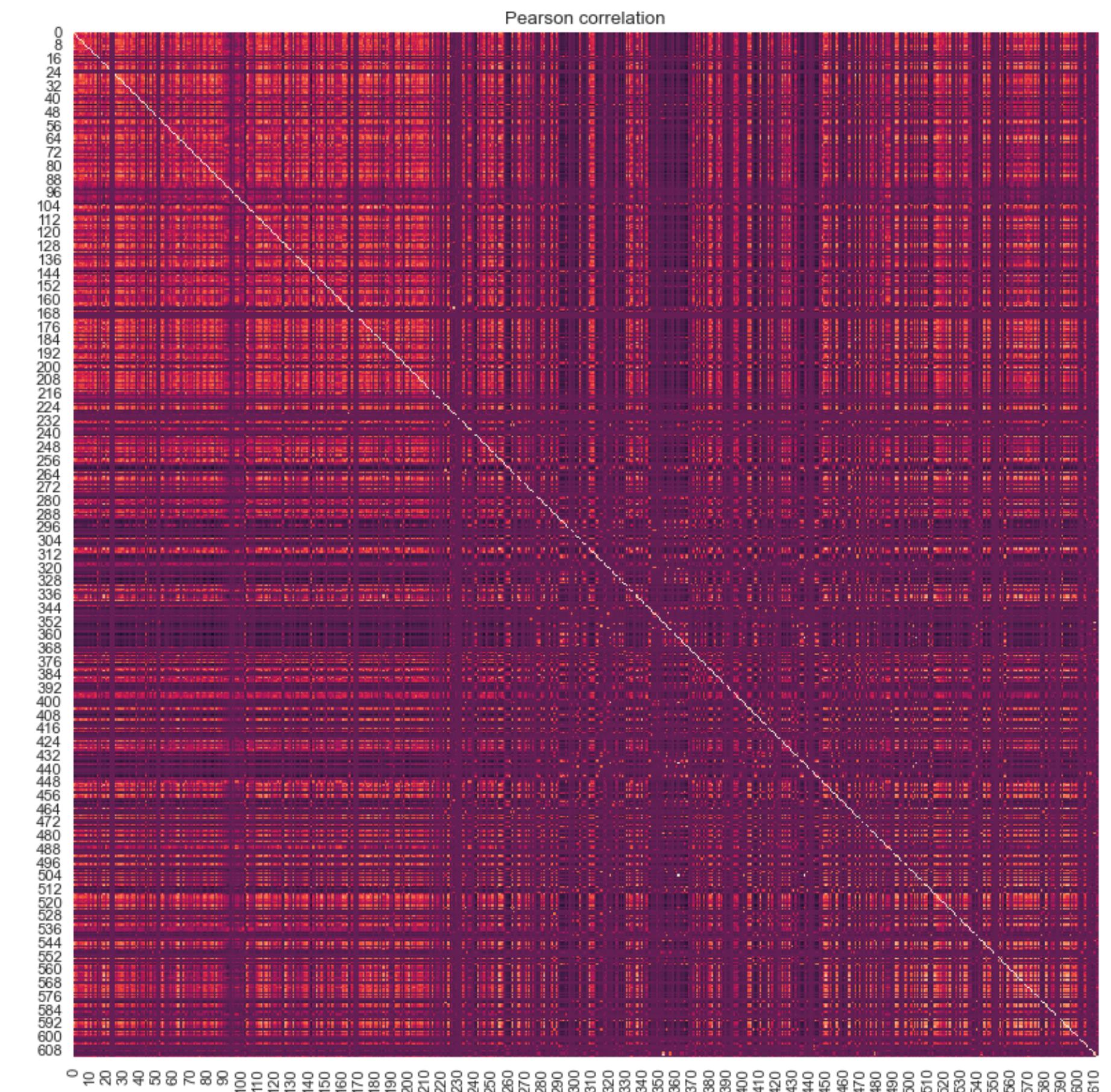
PageRank рекомендации узлов

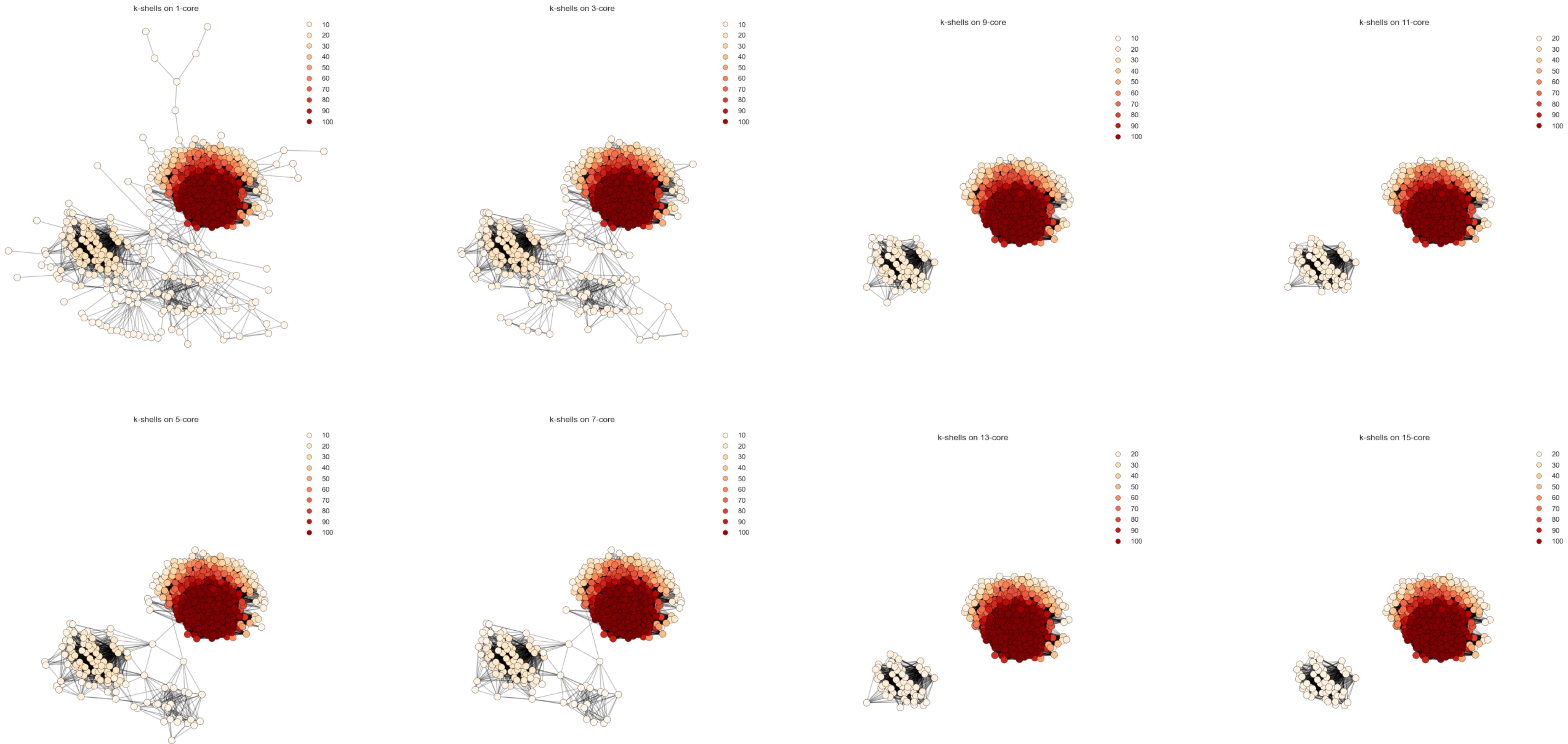


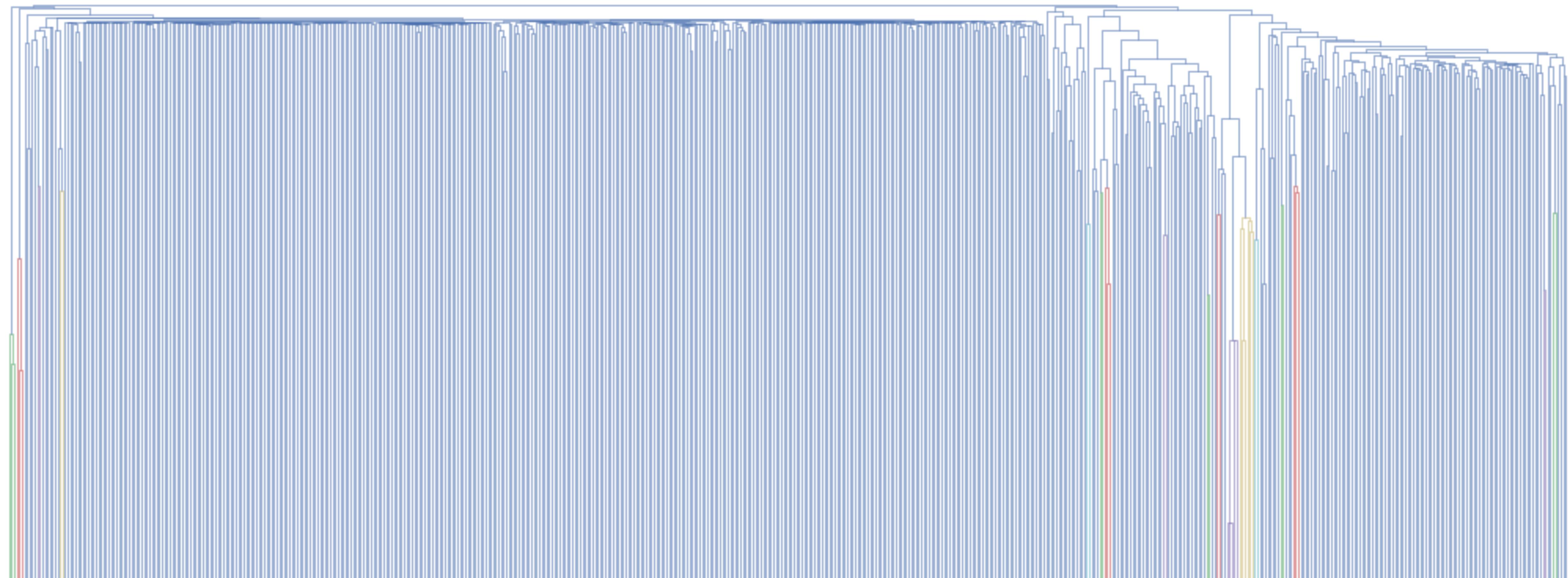
Лучшие PageRank



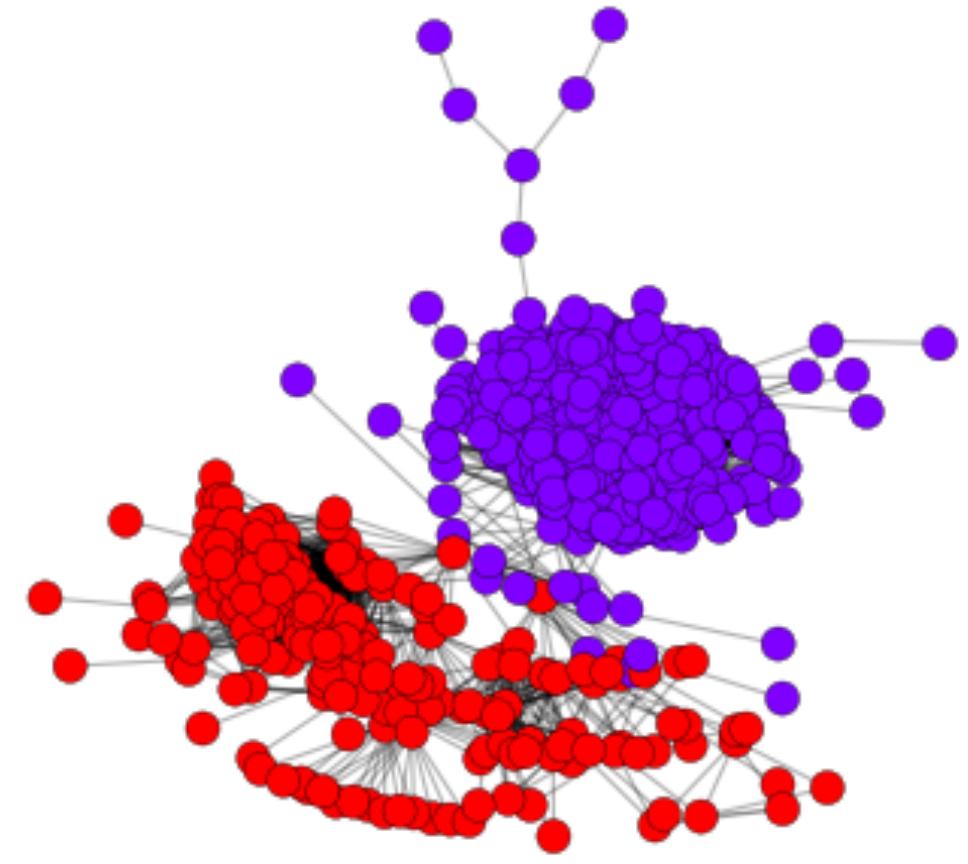




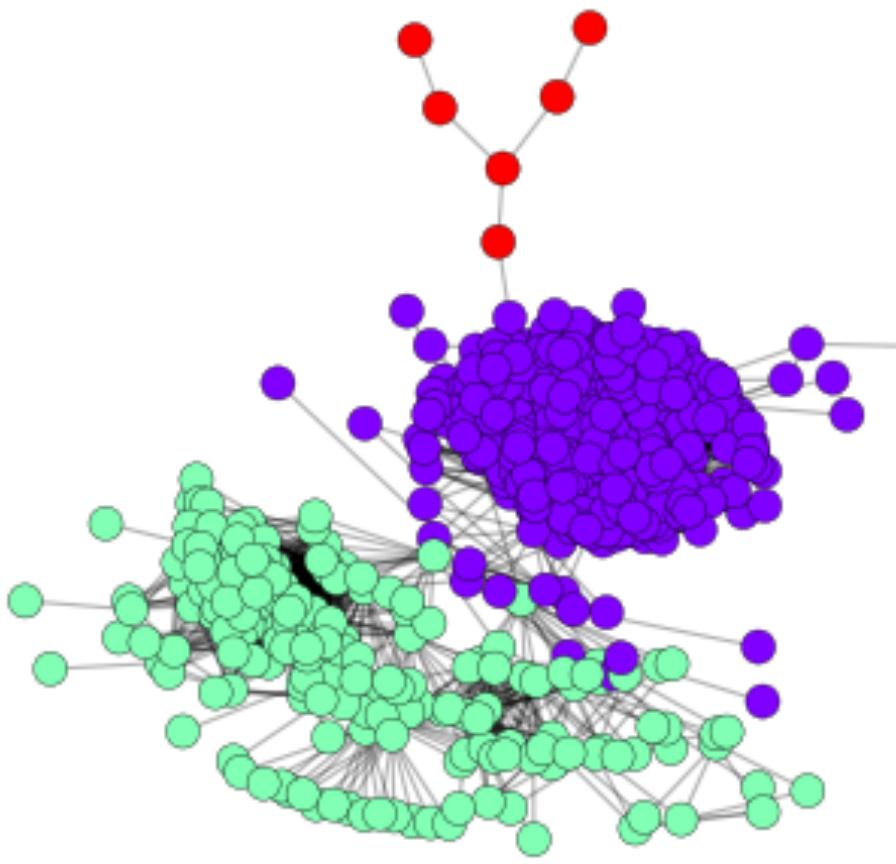




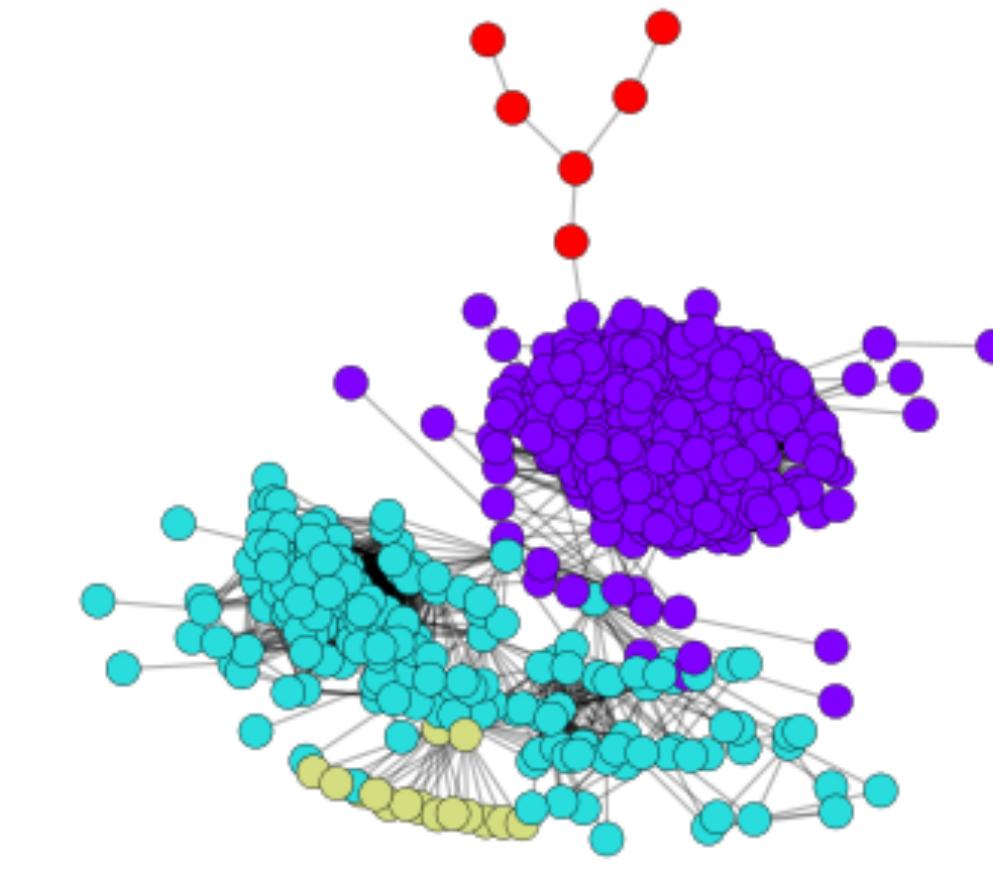
Edge betweenness, 2 communities



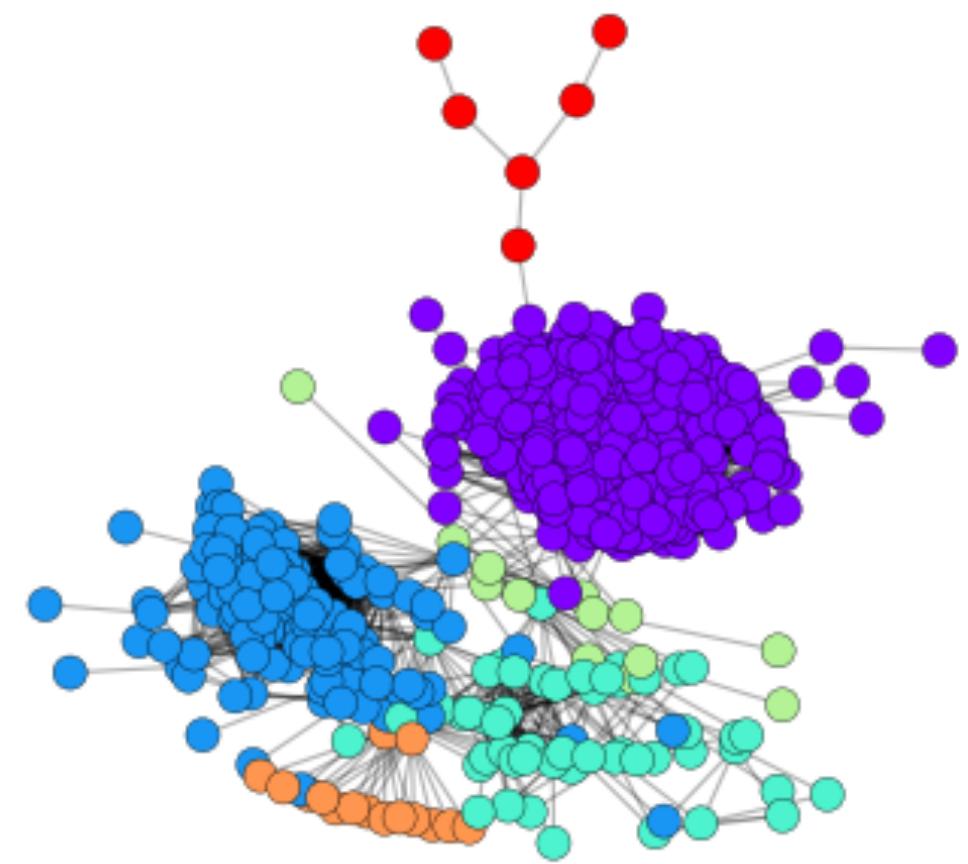
Edge betweenness, 3 communities



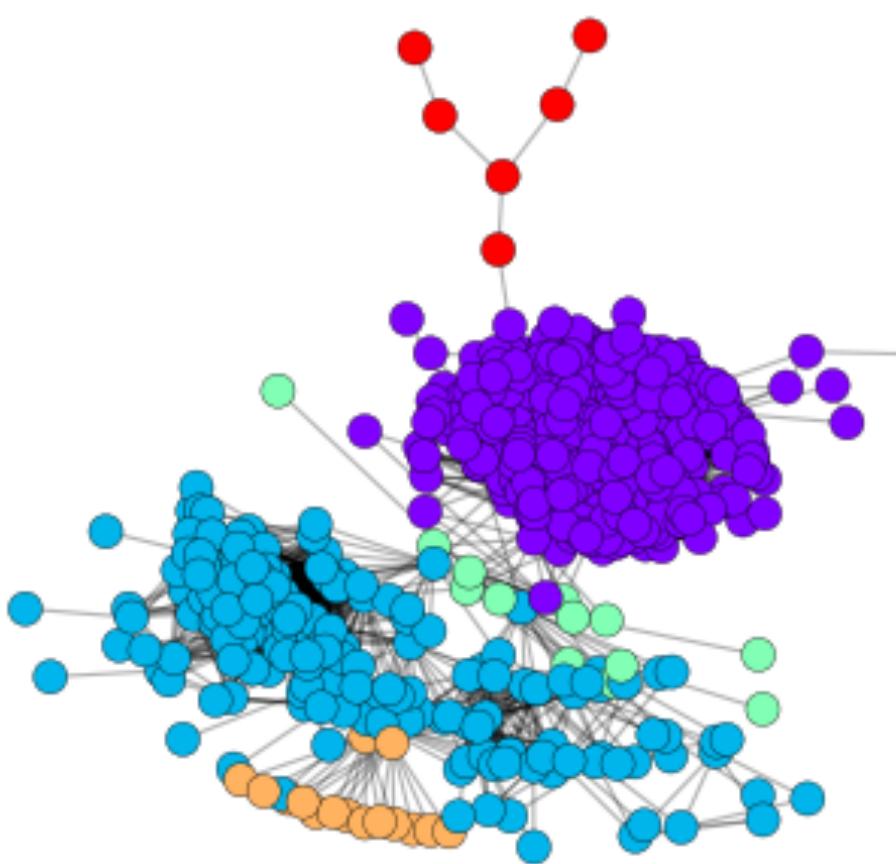
Edge betweenness, 4 communities



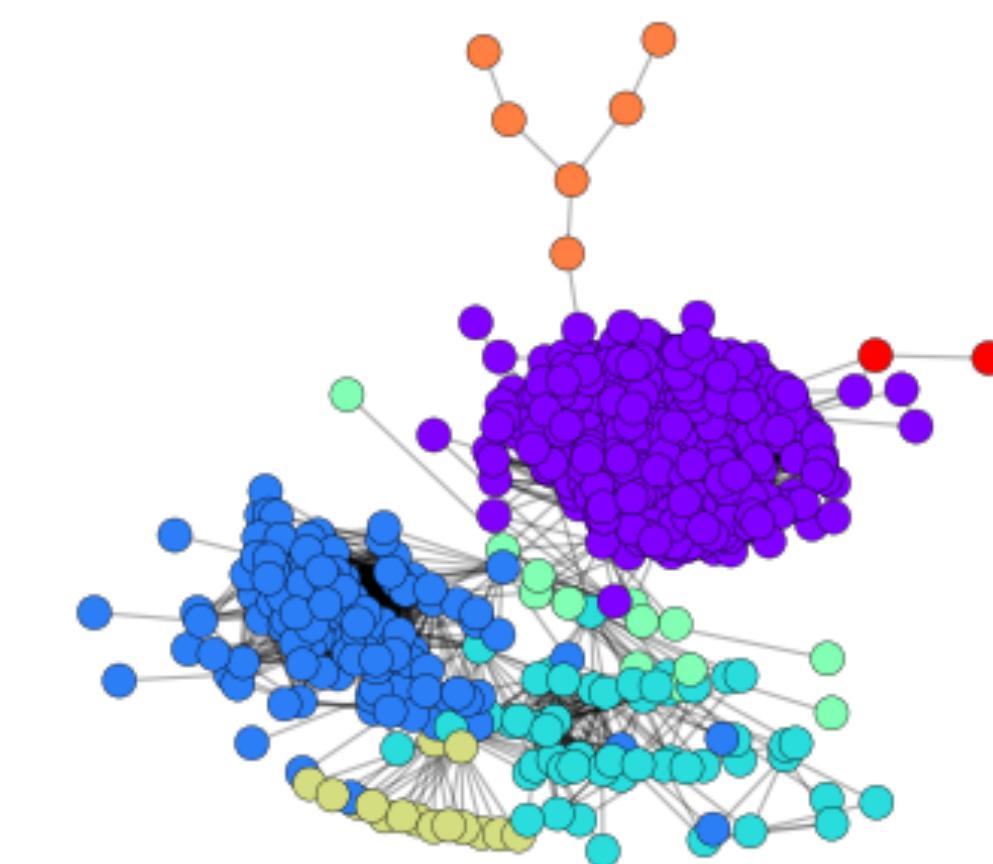
Edge betweenness, 6 communities

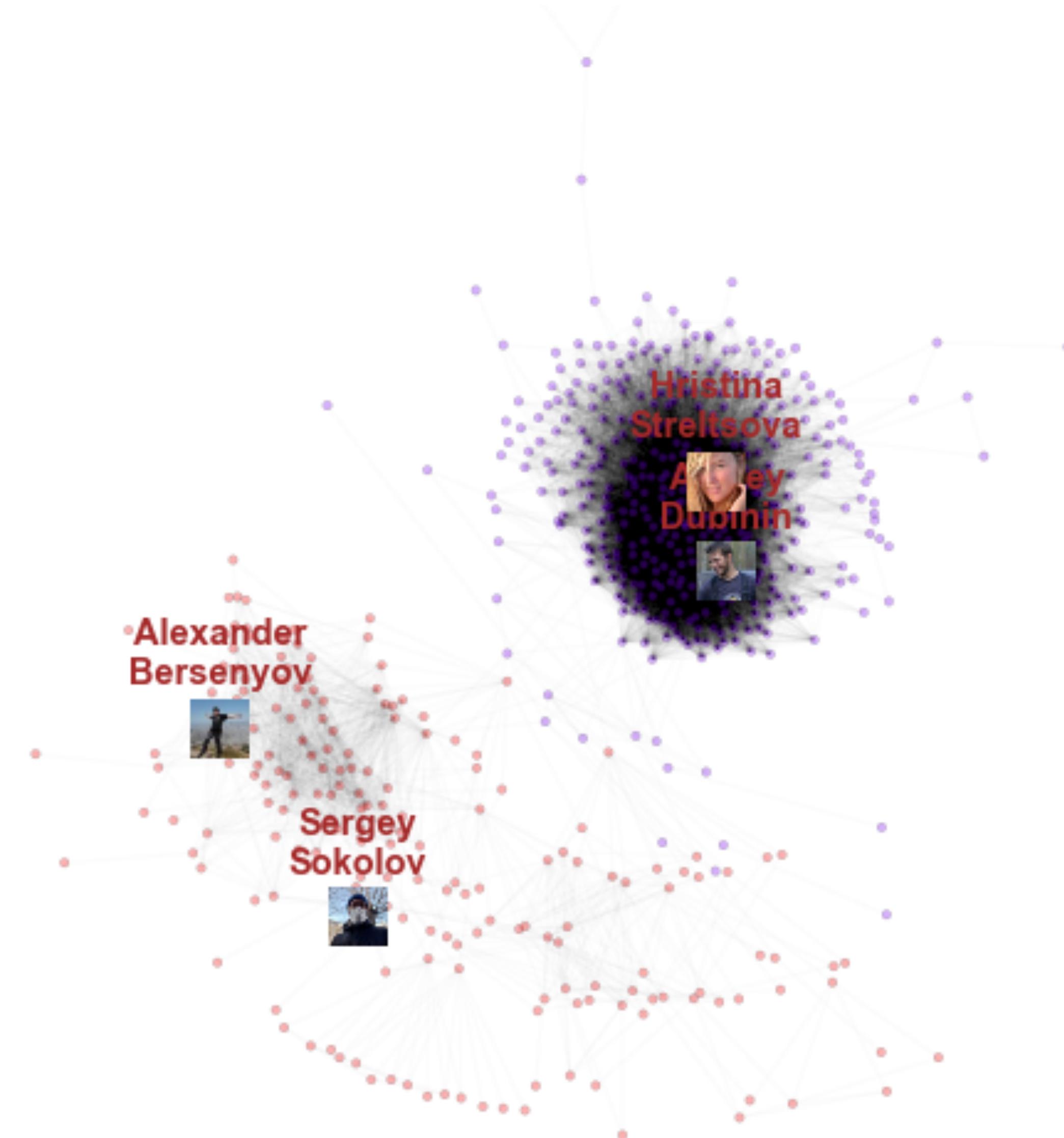


Edge betweenness, 5 communities



Edge betweenness, 7 communities





Bogdan
Ibragimov



Hristina
Streltsova
Aley
Dubinin



Alexander
Berseniov



Sergey
Sokolov



Bogdan
Ibragimov



Hristina
Streltsova
Artemy
Dubinin



Alexander
Bersenyov



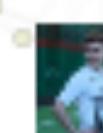
Sergey
Sokolov



Dmitry
Sinyaev



Artem
Khalilov



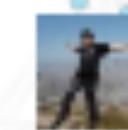
Bogdan
Ibragimov



Lyokha
Nekrasov



Alexander
Bersenyov



Sergey
Sokolov



Dmitry
Sinyaev

Artem
Khalilov



Hristina
Streltsova
Andrey
Dubinin



Evgeny
Zagovalko



