



DUBKI NETWORK ANALYSIS

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Data Science faculty

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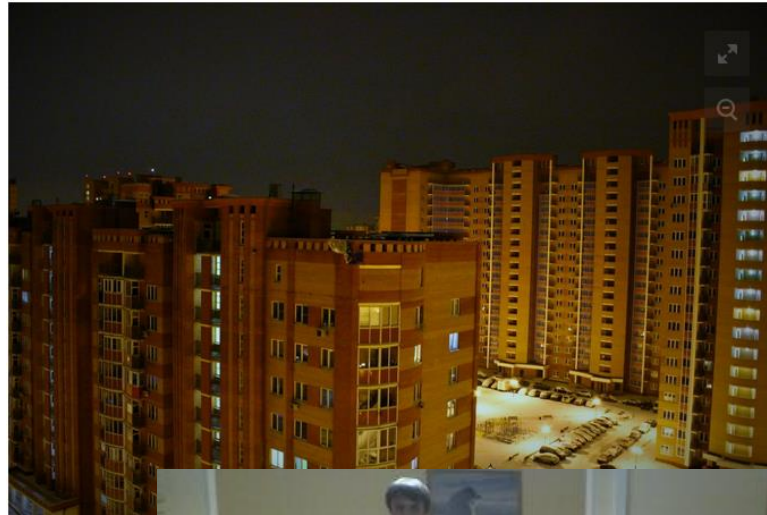
NETWORK DESCRIPTION



Студенческий городок Дубки

Открытая группа

7007 участников



<https://vk.com/dubki>

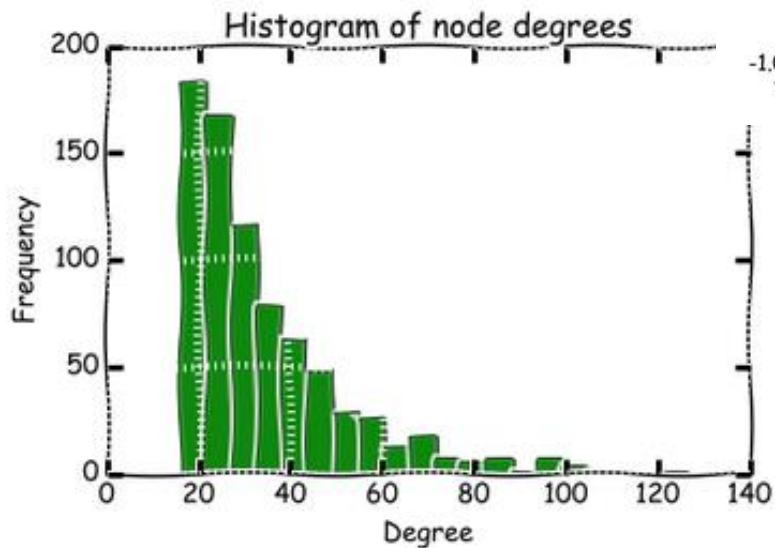
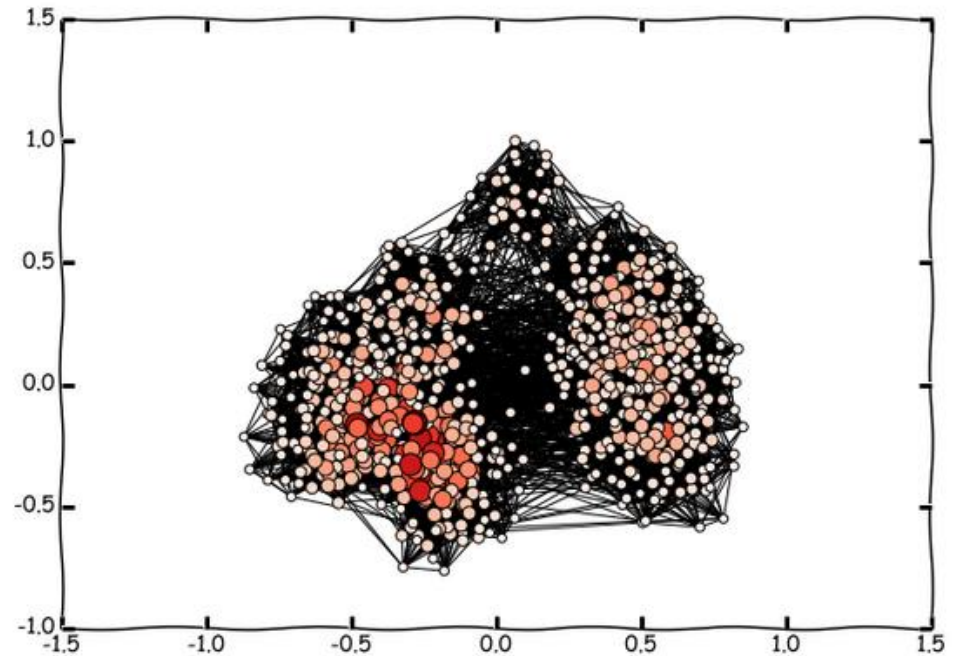
NETWORK SUMMARY

order = 776

size = 13224

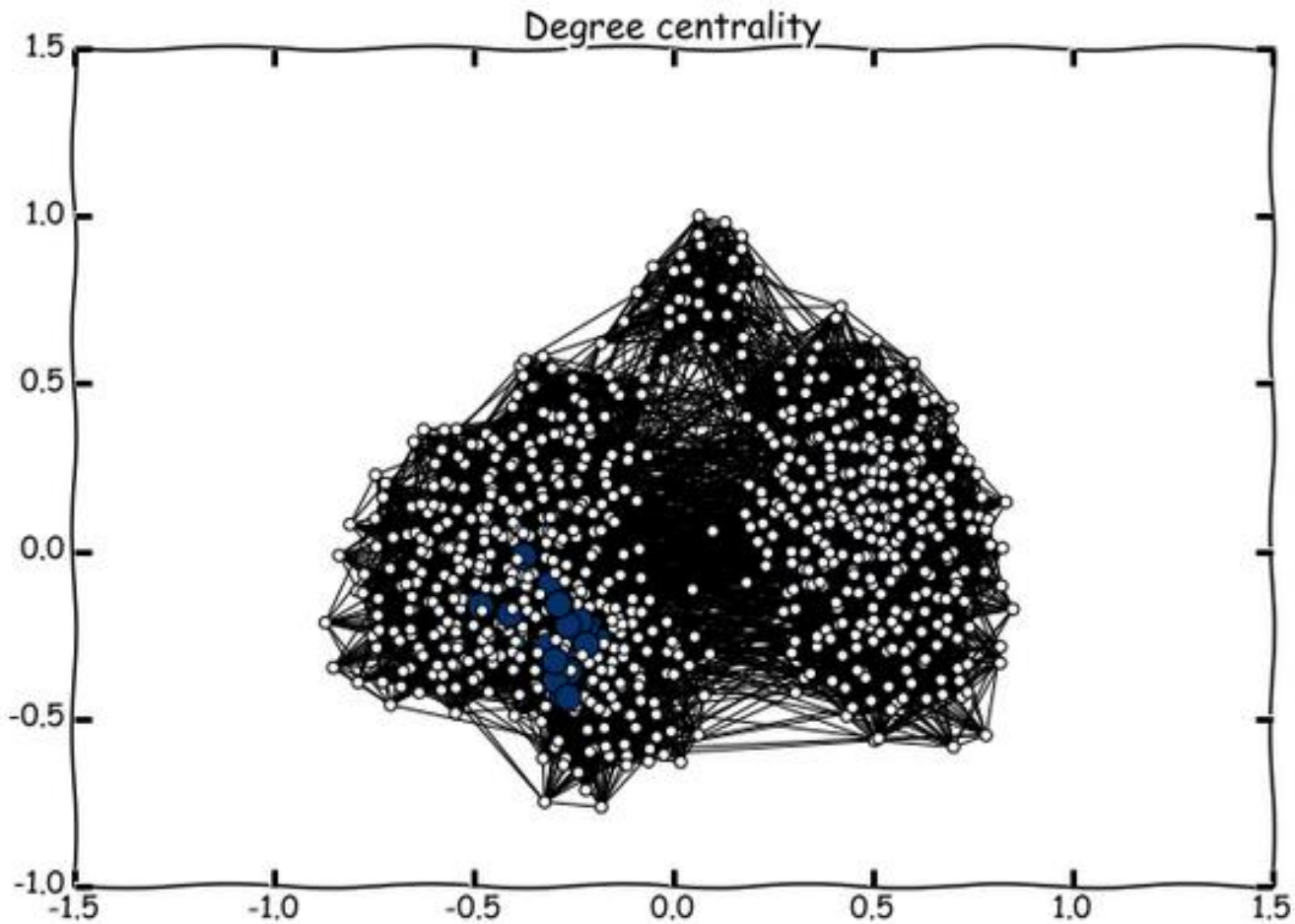
$C = 0.34$

diameter = 4



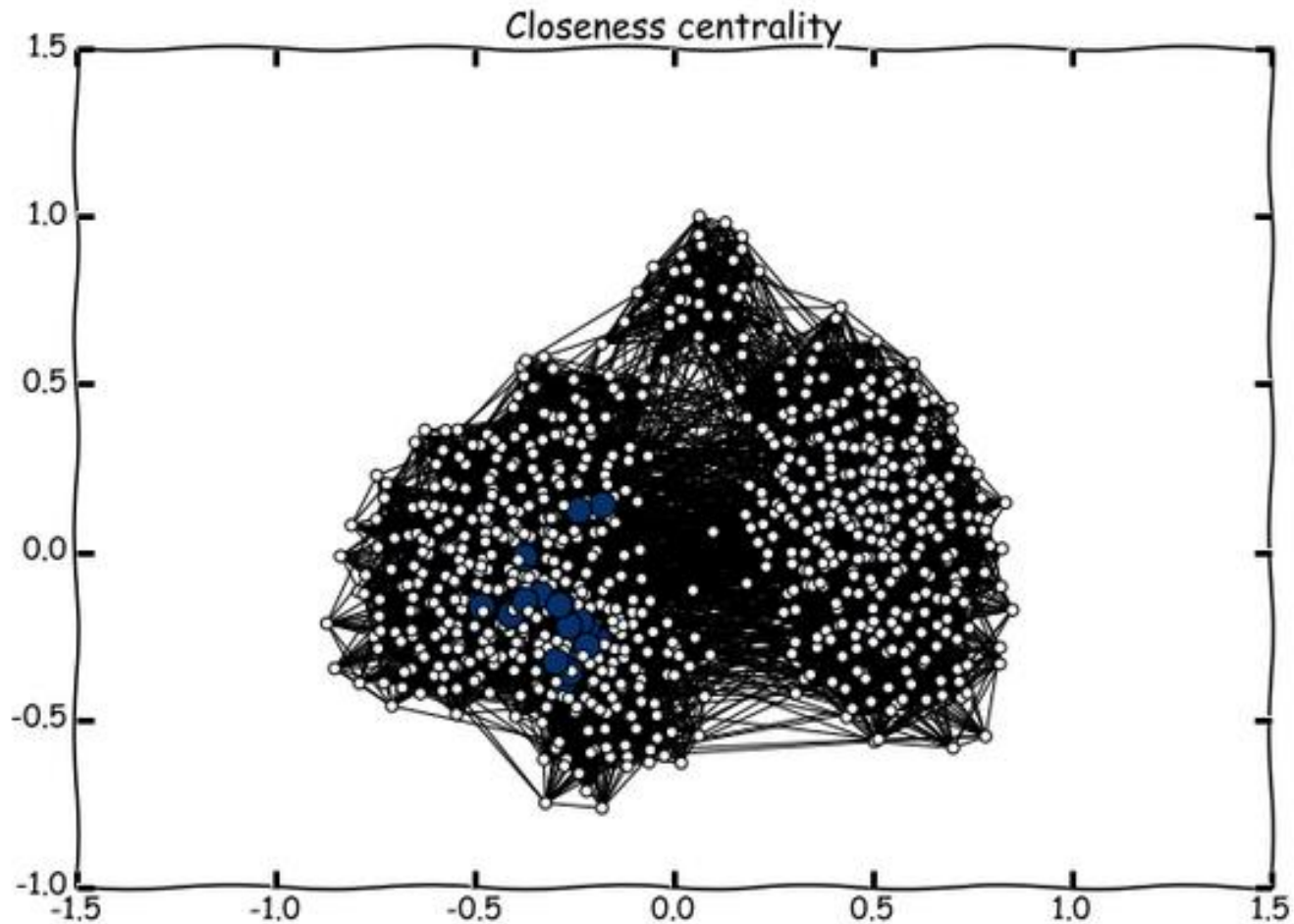
STRUCTURAL ANALYSIS

CENTRALITIES



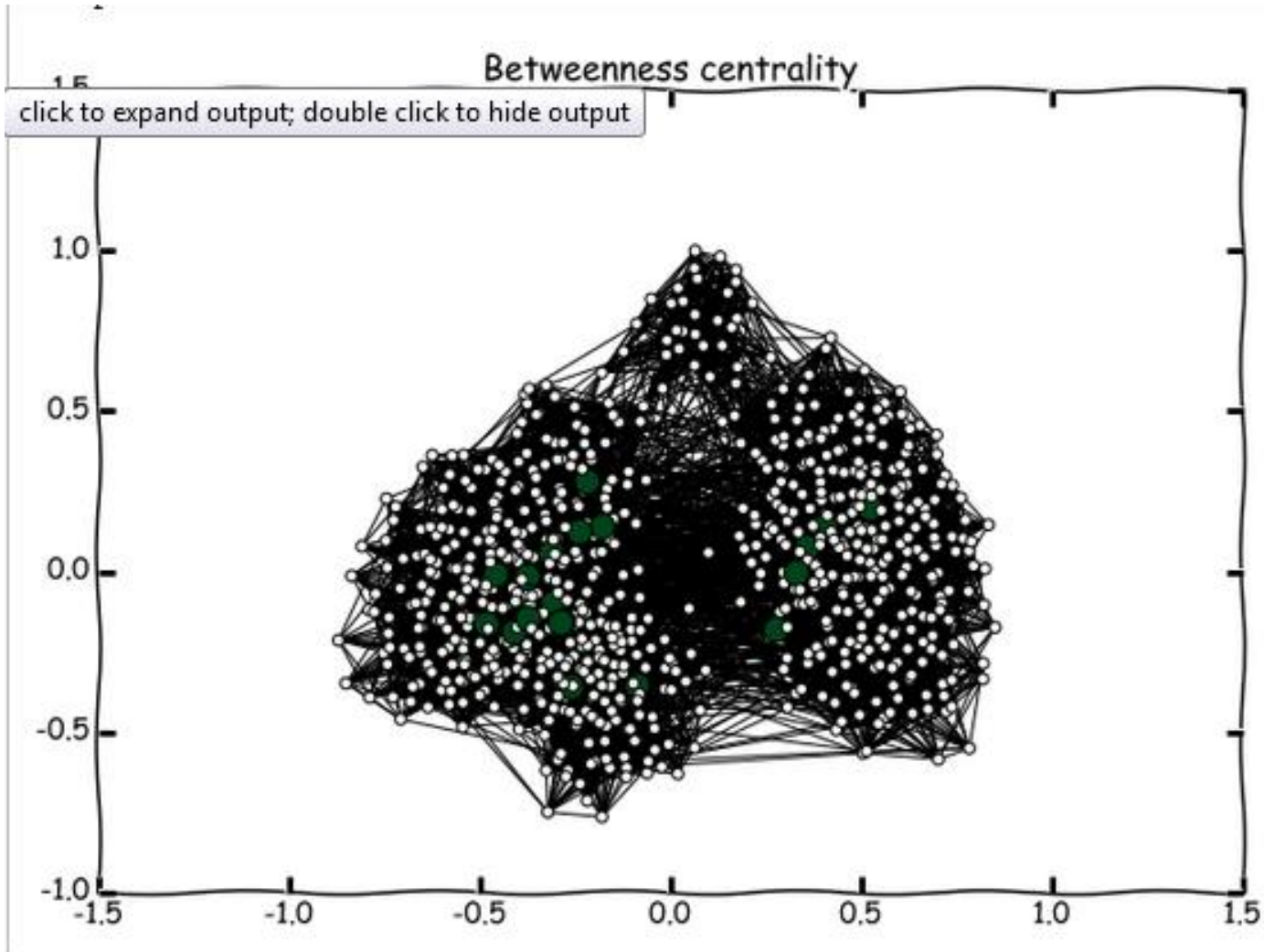
STRUCTURAL ANALYSIS

CENTRALITIES



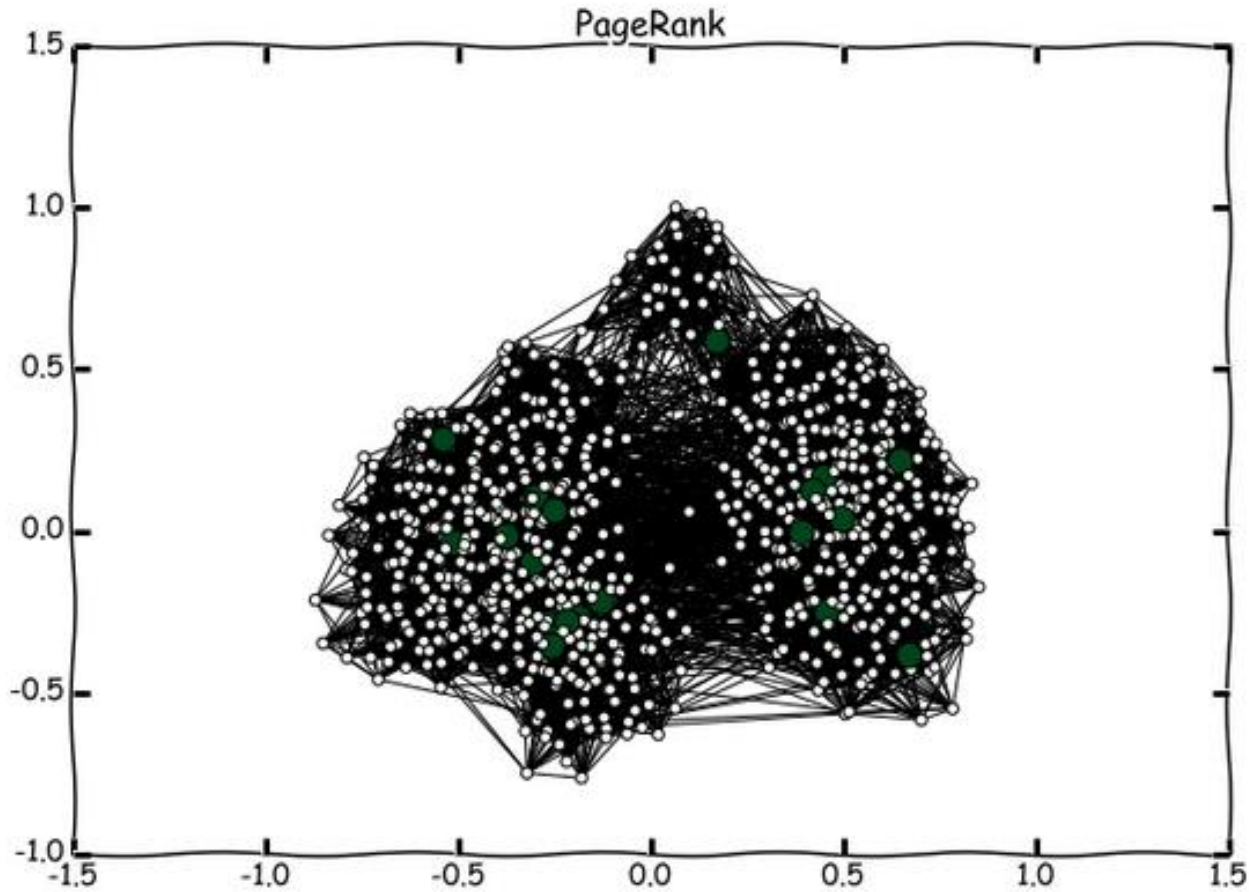
STRUCTURAL ANALYSIS

CENTRALITIES



STRUCTURAL ANALYSIS

PAGERANK



$\text{corr}_d = 0.03$

$\text{corr}_c = -0.05$

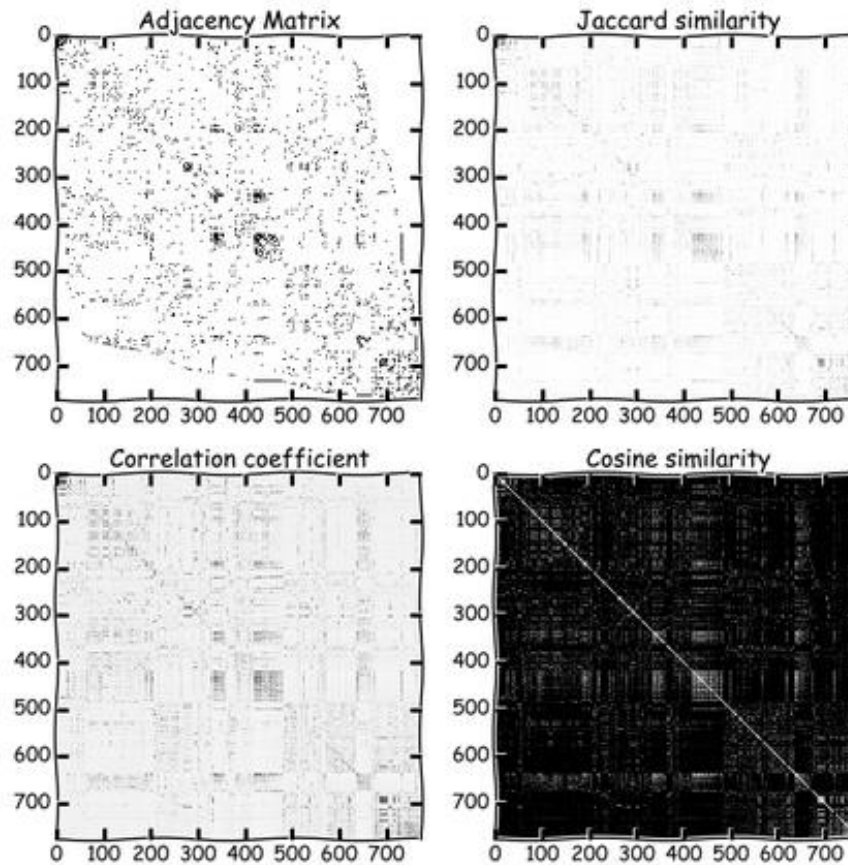
$\text{corr}_b = -0.07$

STRUCTURAL ANALYSIS

ASSORTATIVE MIXING & NODE SIMILARITY

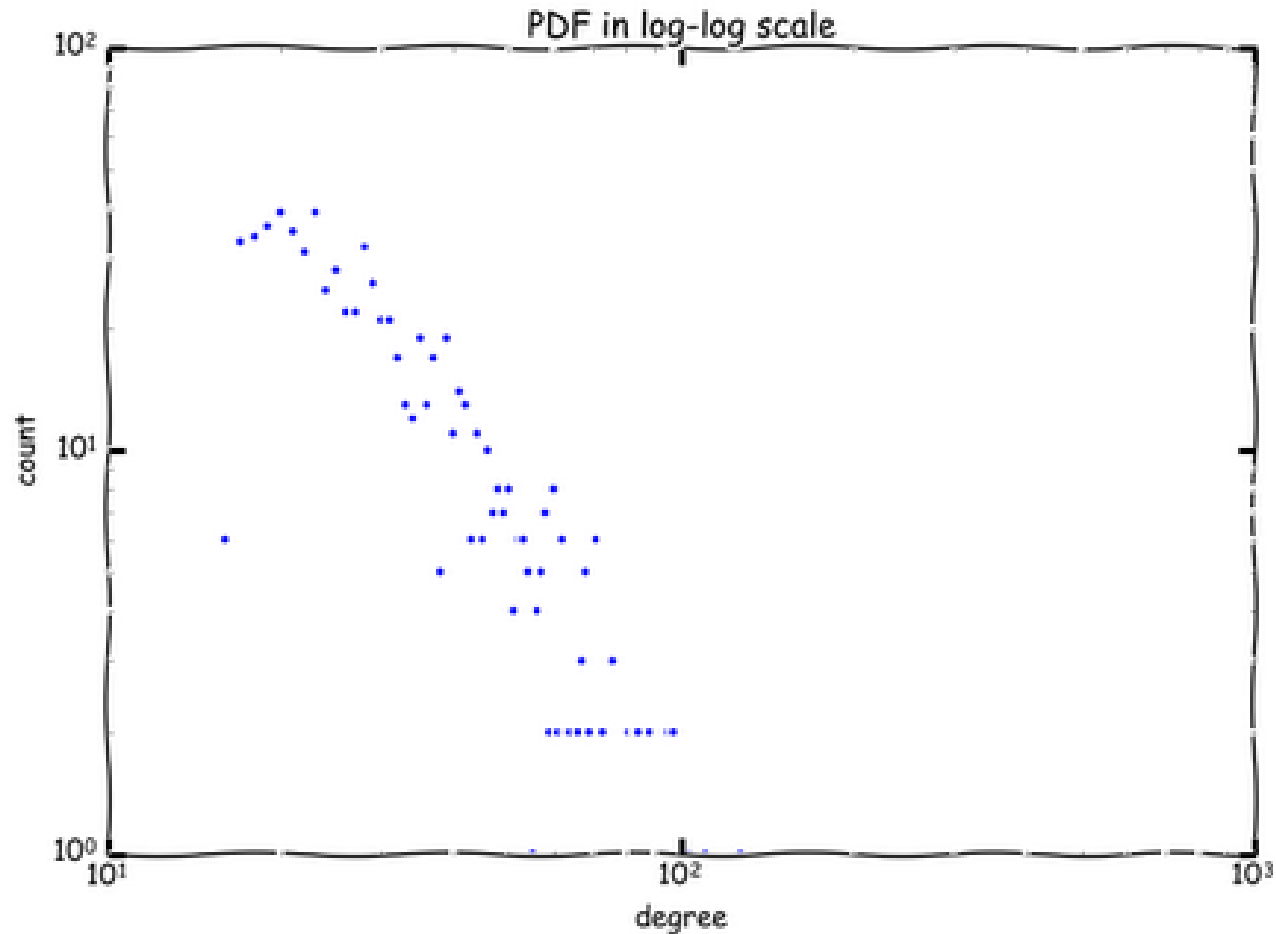
Mixing according to sex = 0.09

Mixing according to city = -0.001



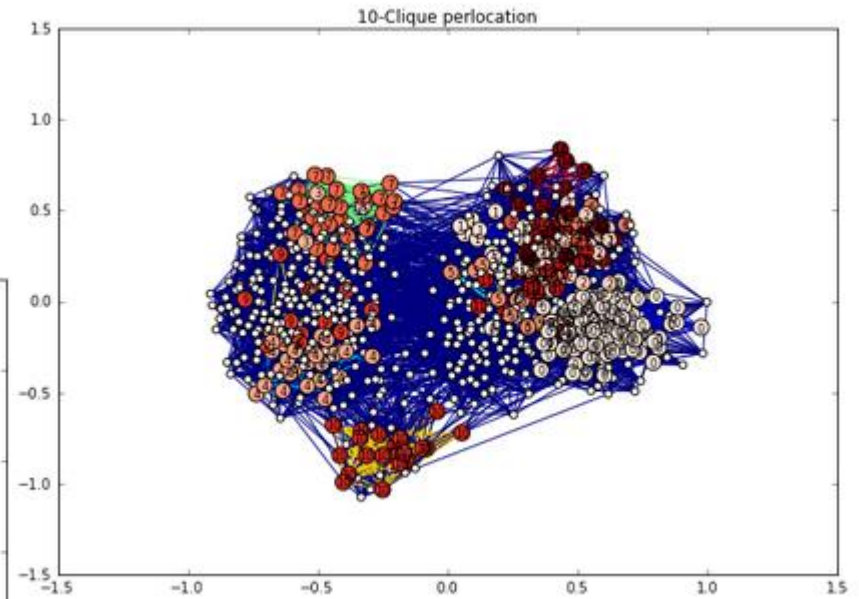
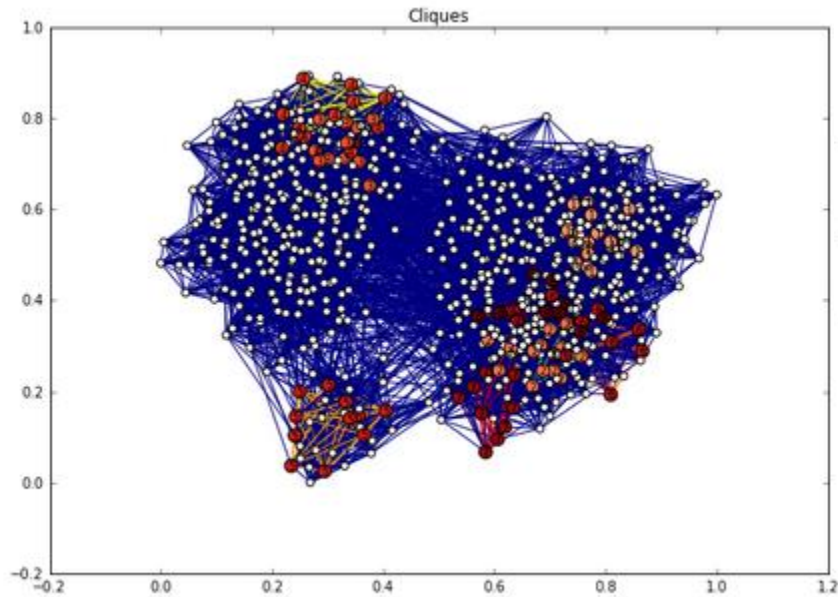
STRUCTURAL ANALYSIS

RANDOM GRAPH MODEL



COMMUNITY DETECTION

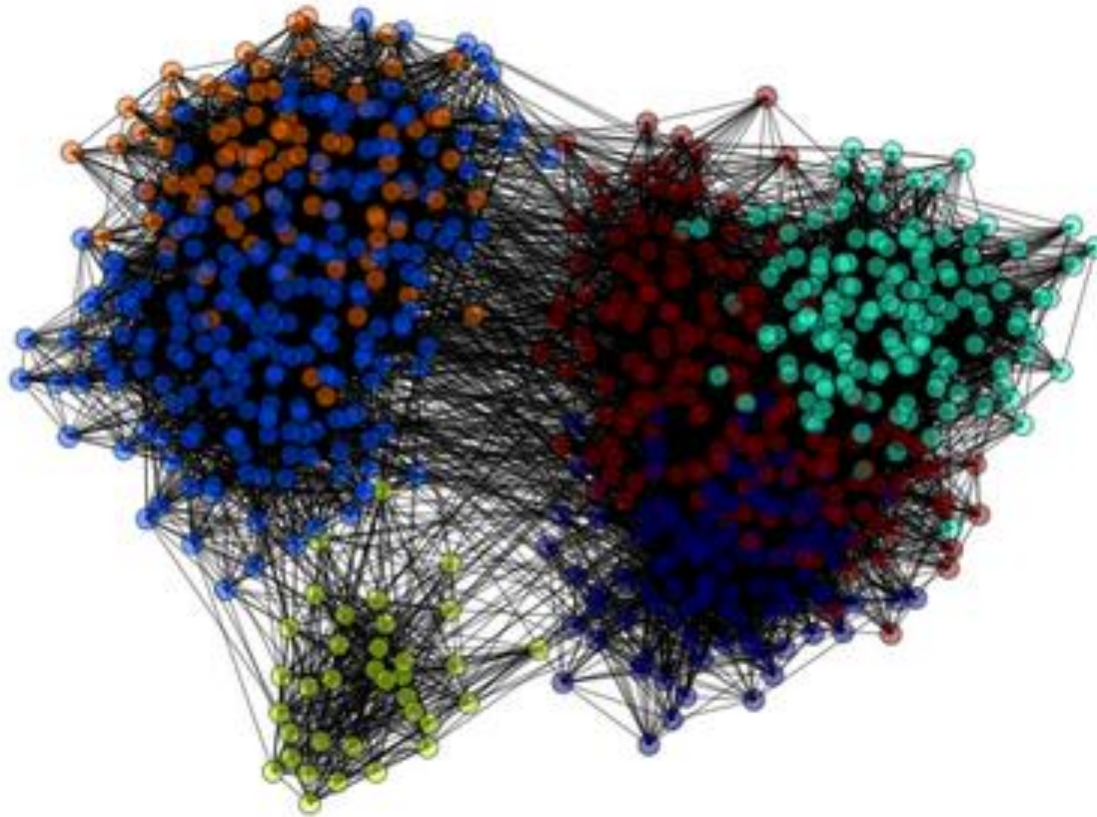
CLIQUE



COMMUNITY DETECTION

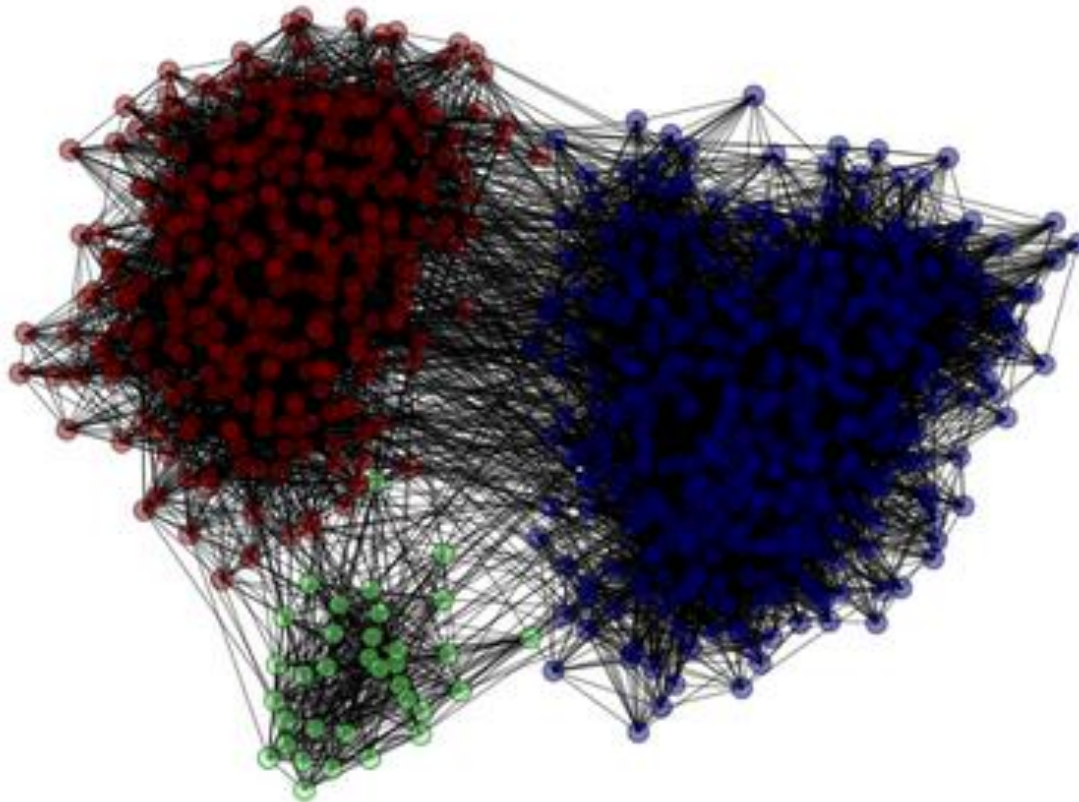
BEST_PARTITION()

Best_partition_by_community_module

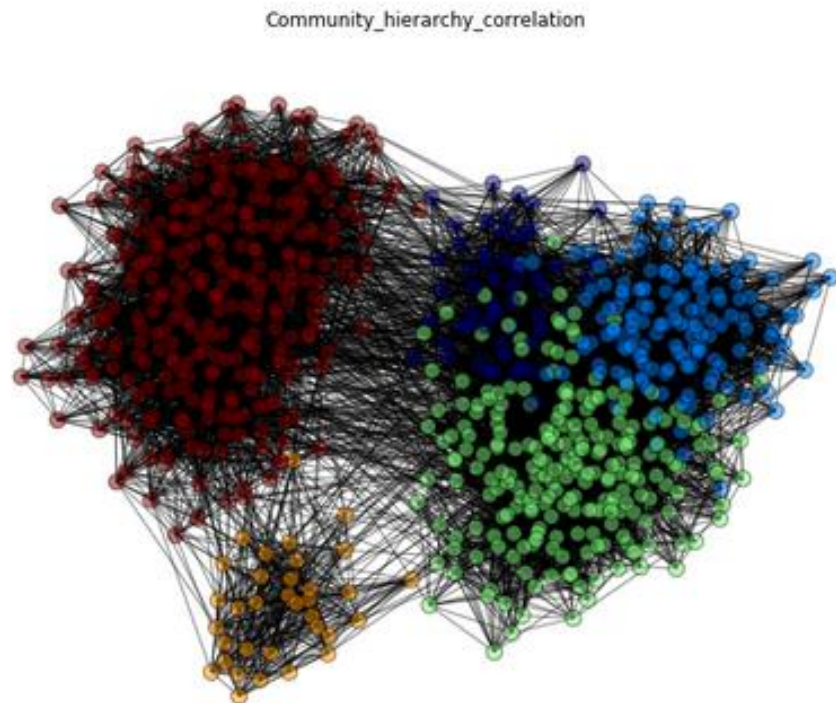
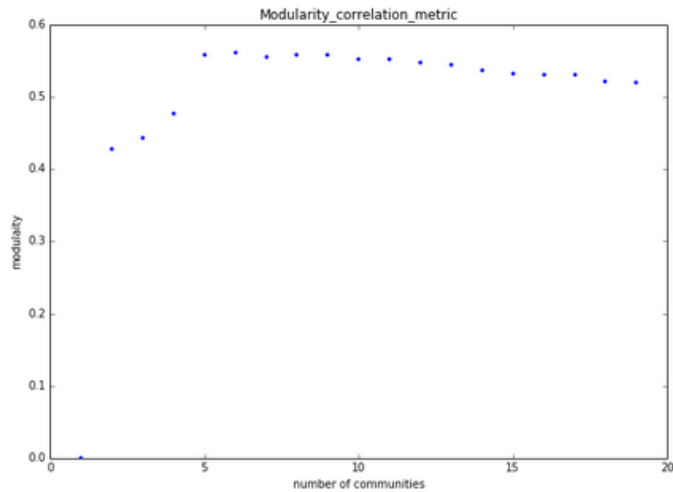


COMMUNITY DETECTION INCREMENTAL ALGORITHMS

Community_hierarchy_jaccard_3_clusters



COMMUNITY DETECTION INCREMENTAL ALGORITHMS 2



Thank you for attention