

Course project
"Optimization approaches to community detection"

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1 Introduction to community detection

2 Stochastic block model

3 Algorithms

3.1 Semidefinite relaxations

3.2 Conjugate gradients method

3.3 Modularity-based methods

3.4 Spectral method

4 Data

5 Experimental results

6 Work split

7 References

[1] A low-rank approach to the computation of path integrals. M.S. Litsarev, I.V. Oseledets, 2015.

[2] Karl Sigman notes, 2006.