CSC 575 Workshop 3 - Hardness of Checking Maximal Quasi-Cliques

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Materials

The materials can be found at these locations

- ► YouTube Video
- ► Shared Microsoft OneDrive
- ► Shared Google Drive
- ► GitHub (no video)

Publication of Study

The paper chosen for research is as follows with the specific proof outline on pgs. 6-8.

[1]



S.V. Sanei-Mehri, A. Das, et al.

Mining largest maximal quasi-cliques.

ACM Trans. Knowl. Discov. Data 15(5), apr 2021.

https://doi.org/10.1145/3446637

Resources

Additional resources were leveraged for the understanding of 3-SAT to r-CLIQUE reduction technique, as well as cliques and quasi-cliques in general, which can be found here:

- https://d1b10bmlvqabco.cloudfront.net/attach/ hsoyaw6eh1215z/hcf60z2lm1mde/hy4775493rba/clique. pdf
- ▶ https://www.geeksforgeeks.org/ proof-that-clique-decision-problem-is-np-complete/
- ▶ https://en.wikipedia.org/wiki/Clique_problem
- ► https://www.youtube.com/watch?v=5PJDPIjIpYA
- ▶ https://dl.acm.org/doi/10.1145/1081870.1081898