Determining the Minimum Number of Protein-Protein Interactions Required to Explain Known Protein Complexes

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README

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syndata_1

- ⋆ cplex_lp.c is a C++ source code to generate the LP format file required by CPLEX.

- ⋆ cplex.c is a C++ source code for generating the list of CPLEX commands that will be executed.

- ⋆ run_cplex.py is a python source code that automatically complies C/C++ code and runs CPLEX.

- ⋆ syndata_1.txt – syndata_10.txt are synthetic datasets that are randomly generated.

  - – The maximum number of proteins and complexes are 10 and 20.
  - – The maximum number of proteins within one protein complex is 5.

- ⋆ dataILP_1.sol – dataILP_10.sol correspond to the results of the optimization on CPLEX.

syndata_2

- ⋆ cplex_lp.c is the same as described above.

- ⋆ cplex.c is the same as described above.

- ⋆ run_cplex.py is the same as described above.

- ⋆ syndata_1.txt – syndata_10.txt are synthetic datasets that are randomly generated.

  - – The maximum number of proteins and complexes are both 100.
  - – The maximum number of proteins within one protein complex is 4.

- ⋆ dataILP_1.sol – dataILP_10.sol correspond to the results of the optimization on CPLEX.