

In this assignment you solve problems regarding Network Programming. For problems 1 and 2 from Network Programming problems document,

- 1) Develop NP models for the problems.
- 2) Implement NP models using python Gurobi.

Notes

For problem 2, assume the reservoirs are initially empty for all stations. Hourly price of electricity is $\lambda_i = \{20, 22, 25, 30, 25, 20, 20, 20\}$ for eight hours.

Instructions

Submit a PDF file describing a Network programming (NP) model and a solution to the problem instance. Also, submit a program (a Python script or a Jupyter notebook) using Gurobi to solve the problem instance. For the problem instance, report the values of the objective and decision variables.