Research Problem
The Generalized Steiner Network Problem

Problem 5-1. The generalized Steiner network problem is defined in [1], where a 2-approximation based on linear program rounding is given. Show a combinatorial constant factor algorithm for the same problem. For a combinatorial logarithmic approximation, please refer [2].

References

[1] K. Jain. A factor 2 approximation algorithm for the generalized steiner network problem. *IEEE Symposium on Foundations of Computer Science*, 1998.

[2] M. Goemans, A. Goldberg, S. Plotkin, D. Shmoys, É. Tardos, and D. Williamson. Improved approximation algorithms for network design problems. *ACM-SIAM Symposium on Discrete Algorithms*, 1994.