Clustered Maximum Weight Clique Problem: Algorithms and Empirical Analysis

Krishna Teja Malladi, Snezana Mitrovic-Minic, Abraham P. Punnen

PII: S0305-0548(17)30083-7
DOI: 10.1016/j.cor.2017.04.002
Reference: CAOR 4226

To appear in: *Computers and Operations Research*

Received date: 7 July 2016
Revised date: 3 April 2017
Accepted date: 3 April 2017

Please cite this article as: Krishna Teja Malladi, Snezana Mitrovic-Minic, Abraham P. Punnen, Clustered Maximum Weight Clique Problem: Algorithms and Empirical Analysis, *Computers and Operations Research* (2017), doi: 10.1016/j.cor.2017.04.002

Highlights

- This paper examines the Clustered Maximum Weight Clique Problem which is derived from the Satellite Image Acquisition Scheduling Problem.
- Two variants of the problem are introduced.
- Matheuristic algorithm, which exploits the power of commercial mixed-integer programming solvers, is developed.
- Extensive computational experiments are conducted on clustered adaptations of DIMACS and BHOSLIB benchmark instances for the Maximum Clique Problem.