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Clustered Maximum Weight Clique Problem: Algorithms and Empirical Analysis

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**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.
- Metaheuristic 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.

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