

1 The set covering problem with conflicts

This is a variation of the set covering problem.

A penalty is paid in the objective function every time two similar columns are selected. Two columns are similar when they have too many components in common, where "too many" means "more than a given bound".

Reference: talk given by L. Moreschini at ODS 2021 conference.

Source code and data are available on GitHub: <https://github.com/lmores/scs-article-src>

The problem is NP-hard and it is suitable for developing several exact optimization methods.

Il lavoro è adatto ad un progetto per l'esame di Complementi di R.O.