Murin, D. M.
LLL-solver. (Russian. English summary) [Zbl 1313.68064]
Mat. Model. 24, No. 12, 43-48 (2012).

An approach to solve some variants of the so-called NP-complete problems during an acceptable period of time is considered. The approach is based on the known Lagarias-Odlyzko method for low-density knapsack problems. A notion of algorithm acceptance function is introduced and its application to the considered problems is demonstrated.

Reviewer: Sergei Georgievich Zhuravlev (Moskva)

MSC:

68Q17  Computational difficulty of problems (lower bounds, completeness, difficulty of approximation, etc.)
90C59  Approximation methods and heuristics in mathematical programming