

**Boros, E.; Crama, Y.; Hammer, P. L.**

**Chvátal cuts and odd cycle inequalities in quadratic 0-1 optimization.** (English)

Zbl 0761.90069

SIAM J. Discrete Math. 5, No. 2, 163-177 (1992).

An unconstrained quadratic 0-1 minimization problem is investigated. It is shown that a new lower bound can be computed by solving an LP problem of polynomial size in the number of variables. The polyhedron  $S^{[3]}$ , defined by the constraints of this LP is the first Chvátal closure of the polyhedron, associated with standard linearization procedures.

Reviewer: J.Mitev (Sofia)

**MSC:**

90C09 Boolean programming

90C20 Quadratic programming

52B12 Special polytopes (linear programming, centrally symmetric, etc.)

90C27 Combinatorial optimization

Cited in **15** Documents

**Keywords:**

unconstrained quadratic 0-1 minimization; lower bound

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