



# An Intelligent Technique for Selecting the Initial Solution of Indefinite Quadratic Optimization Problems

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## Abstract

The global solution of indefinite quadratic optimization problems by factorization is proving increasingly promising for large-scale problems. The algorithms used are iterative. To ensure rapid global convergence of the solution sequences generated at each iteration and to achieve extremely low complexity, rigorous selection of the initial solution is recommended. In this work, we propose an intelligent technique for selecting the initial solution and validate it using relevant benchmark tests.

**Keywords:** Global convergence, global solution, quadratic optimization, algorithm, constraint satisfaction problem.

## References:

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