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APPLICATION OF GENETIC ALGORITHM (GA)

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ABSTRACT

Genetic algorithm has been recently proposed in the literature as a novel population oriented meta-heuristic algorithm. It has been tested on some unconstrained and constrained non-linear programming problems, including some design optimization problems with considerable success. The main purpose of this seminar is to analyze the performance of genetic algorithm on combinatorial optimization problems. Here also provided a detailed literature review about applications of genetic algorithm. Performance of genetic algorithm on problems can give an idea about its possible performance for solving other combinatorial optimization problems. Here experimental results for constrained and unconstrained benchmark functions and tried to invalidate the performance supremacy of the genetic algorithm.

Keywords: Genetic algorithm, Fitness function, Genetic operators, constrained optimization, Application areas.

