Crossover Operators in Genetic Algorithms: A Review

Abstract

Genetic Algorithms are the population based search and optimization technique that mimic the process of natural evolution. Genetic algorithms are very effective way of finding a very effective way of quickly finding a reasonable solution to a complex problem. Performance of genetic algorithms mainly depends on type of genetic operators which involve crossover and mutation operators. Different crossover and mutation operators exist to solve the problem that involves large population size. Example of such a problem is travelling salesman problem, which is having a large set of solution. In this paper we will discuss different crossover operators that help in solving the problem.

References


Index Terms

Computer Science Algorithms

Keywords

Genetic Algorithm; Mutation; crossover; Selection; travelling salesman problem