Crossover Operators in Genetic Algorithms: A Review

International Journal of Computer Applications
Foundation of Computer Science (FCS), NY, USA

Volume 162
Number 10

Year of Publication: 2017

Authors:
Padmavathi Kora, Priyanka Yadlapalli

10.5120/ijca2017913370

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 sales man 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

Crossover Operators in Genetic Algorithms: A Review


Index Terms

Computer Science Algorithms

Keywords

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