Abstract

Optimization is a research branch that models the maximization and minimization of a real function by systematically choosing the input values from within an allowed domain. Its concerned with finding the best solutions for a given problem irrespective of its discipline. The Artificial Bee Colony (ABC) algorithm is a swarm based meta-heuristic optimization algorithm inspired by the intelligent behavior of honey bee swarm. Genetic Algorithms (GA) is an attractive class of computational models that mimic the biological evolution process for solving problems in a wide domain. In this work, Genetic Algorithm with Employed Bee (GAEB) is proposed where, hybridization of the employed bee operator of ABC algorithm has been done in GA. The results obtained showed that GAEB provides better optimized results than classical GA.

References

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Index Terms

Computer Science Artificial Intelligence

Keywords

Artificial Bee Colony; Abc; Genetic Algorithm; Ga; Genetic Algorithm With Employed Bee; Gaeb