

A SURVEY ON APPLICATION OF NATURE INSPIRED ALGORITHMS

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ABSTRACT

In this paper, the recent advances in nature inspired optimization methods have been studied. Basically those algorithms that are based on swarm intelligence have been discussed. These kind of bio-inspired algorithms are used widely in various fields for solving a variety of problems like travelling agent problem, in bio-information, in scheduling, clustering and mining problems, image processing, engineering designs etc. In end a modified firefly algorithm has been proposed which is a combination of particle swarm and firefly optimization algorithms which gives better results when applied in various applications compared to the earlier algorithms.

KEYWORDS: Nature Inspired Algorithms, Swarm Intelligence, Applications of Bio-Inspired Algorithms, Image Processing, Bio Information and Modified Firefly