

Information and Communication Technology

2nd National Conference on

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Number 1 - Article 3

Year of Publication: 2011

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{bibtex}ncict025.bib{/bibtex}

Abstract

Particle swarm optimization is a global optimization algorithm that originally took its inspiration from the biological examples by swarming, flocking and herding phenomena in vertebrates. This paper presents a review on PSO in single and multiobjective optimization. The paper contains the basic PSO algorithm and various techniques used

in pre-existing algorithms. It also describes the simulation result which is carried out on benchmark functions of single objective optimization with the help of basic PSO. Study of literature shows future direction to enhance the performance of PSO.

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Index Terms

Computer Science
Information
Technology

Key words

Optimization
Swarm intelligence
Particle Swarm optimization
multiobjective PSO
Dynamic PSO

