Abstract

Particle swarm optimization is the populace based heuristic optimization technique motivated by
swarm intelligence and aims to find the best solution in the swarm. Aging leader and
challengers with Particle swarm optimization (ALC-PSO) is a PSO variant in which concept of
leader and challenger is implanted ALC- PSO has been successful in preventing premature
convergence problem of PSO. In this paper, we performed experimental analysis of the
performance of ALC-PSO and Standard PSO Algorithm on different benchmark functions and
made an effort to list out the performance differences between PSO and ALC-PSO.

References

- Russell C. Eberhart, Yuhui ShiGuest Editorial Special Issue on Particle Swarm
Comparative Analysis of Particle Swarm Optimization and Particle Swarm Optimization with Aging Leader and Challengers towards Benchmark Functions

Optimization\textsuperscript{2}; IEEE TRANSACTIONS ON EVOLUTIONARY COMPUTATION, VOL. 8, NO. 3, JUNE 2004.

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