

Multi-Leader Gravitational Search Algorithm For Multi-Objective Optimization Problem

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ABSTRACT

Recently, we have introduced Multi-Leader Particle Swarm Optimization (MLPSO) algorithm for multi-objective optimization problem. Better convergence and diversity have been observed over the conventional Multi-Objective Particle Swarm Optimization. In this paper, the same concept is extended to Gravitational Search Algorithm (GSA). The performance is investigated by solving a set of ZDT test problem. An analysis also is performed by varying the value of initial gravitational constant.

KEYWORDS: Gravitational search algorithm; multi-objective optimization