

عنوان مقاله:

Black Holes Optimization Algorithm

محل انتشار:

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خلاصه مقاله:

In this paper a new swarms algorithms, for optimization problem is proposed. This algorithm is inspired of black holes. A black hole is a region of space-time whose gravitational field is so strong that nothing which enters it, not even light, can escape. Every black hole has mass, charge. In this Algorithm we suppose each solution as a black hole and use of gravity force for global search and electrical force for local search. The experimental results on different benchmarks indicate that the performance of the proposed algorithm is better than PSO (Particle Swarms Optimization), hybrid of PSO and Genetic Algorithm (PSO-GA) and Cuckoo search algorithm.

کلمات کلیدی:

Black Hole, Swarm Algorithm, Optimization Problem, Global Search, Local Search

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