

An Improved Particle Swarm Optimization Algorithm For

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An Improved Particle Swarm Optimization

To enhance the computational efficiency, an improved particle swarm optimization algorithm, named the stochastic perturbation particle swarm optimization (SPPSO), is developed in this work to facilitate searching the global optimum.

An improved particle swarm optimization algorithm for ...

[] proposed a modified particle swarm optimization (MPSO) with constraints to jointly obtain a smooth path, but the method does not improve the efficiency of the particle diversity, which makes the particles stagnate and fall into the optimal local solution. The studies in [15] proposed a fusion of chaotic PSO and ant colony algorithm (ACO).

An Improved Method of Particle Swarm Optimization for Path ...

An improved particle swarm optimization (IPSO) has been developed for determination of the global or near-global optimum solution for UC problem. The improved particle swarm optimization uses more particles' information to control the mutation operation.

An improved particle swarm optimization algorithm for unit ...

An Improved Particle Swarm Optimization for Nonconvex Economic Dispatch Problems. Abstract: This paper presents an efficient approach for solving economic dispatch (ED) problems with nonconvex cost functions using an improved particle swarm optimization (IPSO). Although the particle swarm optimization (PSO) approaches have several advantages suitable to heavily constrained nonconvex optimization problems, they still can have the drawbacks such as local optimal trapping due to premature ...

An Improved Particle Swarm Optimization for Nonconvex ...

The particle swarm optimization (PSO) algorithm is a global search algorithm. In this paper, an improved Lagrange-particle swarm optimization algorithm is proposed. The updating of the Lagrangian multipliers is with the PSO algorithm for global searching.

An Improved Lagrange Particle Swarm Optimization Algorithm ...

The effectiveness of the proposed improved particle swarm optimization for solving the combined heat and power dynamic economic dispatch problem is validated on three different test systems, and the results are compared with those of other variants of particle swarm optimization as well as other methods reported in the literature.

An Improved Particle Swarm Optimization for the Combined ...

Hadji, Mahdad, Srairi and Mancor (2015) proposed a time varying acceleration based on particle swarm optimization. The performance of the standard particle swarm optimization algorithm was improved by dynamically adjusting the acceleration coefficient during the process search and

balancing the development and exploration capabilities.

An improved quantum particle swarm optimization algorithm ...

Figueiredo et al. (2016) to enhance the ability of MOEAs to converge to the non-dominated solutions proposed Many-Objective Particle Swarm Optimization (MaOPSO) that uses a set of reference points dynamically determined according to the search process, allowing the algorithm to converge to the non-dominated solutions, but maintaining the diversity of the non-dominated solutions.

Improved many-objective particle swarm optimization ...

Scout Particle Swarm Optimization (ScPSO) is a recently generated optimization algorithm proposed by Koyuncu and Ceylan. ScPSO algorithm is an efficient PSO variant, which includes the regeneration process (scout bee phase) of ABC algorithm. As known, there is no parameter controlling the progression of pbest values in general flow of PSO.

Particle Swarm Optimization - an overview | ScienceDirect ...

An improved particle swarm scheduling algorithm based on batch changing production time. An improved particle swarm scheduling algorithm based on batch changing production time

An improved particle swarm scheduling algorithm based on ...

Article Info Abstract Article History Received: 01 Month Year With the development of productivity and the fast growth of the economy, environmental pollution, resource utilization and low product recovery rate have emerged subsequently, so more and

(PDF) An Improved Adaptive Multi-Objective Particle Swarm ...

This paper proposes out a variation of particle swarm optimization with best neighbor and worst particle (BNWPPSO). In BNWPPSO, some particles will be constructed as new neighbors of each particle...

An improved particle swarm optimization using best ...

IAPSO-TCI: Improved Ant and Particle Swarm based Optimization Techniques for Classifying Imagery
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IAPSO-TCI: Improved Ant and Particle Swarm based ...

Particle swarm optimization (PSO) is a population based stochastic optimization technique, inspired by social behavior of bird flocking or fish schooling. In this paper, a parameter optimization...

An improved quantum-behaved particle swarm optimization ...

(2020). Improved quantum evolutionary particle swarm optimization for band selection of hyperspectral image. Remote Sensing Letters: Vol. 11, No. 9, pp. 866-875.

Improved quantum evolutionary particle swarm optimization ...

In order to further improve effect of feature selection, many researches try to add intelligent optimization algorithms into feature selection method, such as improved ant colony algorithm and genetic algorithms, etc. Compared to the ant colony algorithm and genetic algorithms, particle swarm optimization algorithm (PSO) is simpler to implement and can find the optimal point quickly.

Improved particle swarm optimization algorithm and its ...

Abstract. To improve the precision, accuracy, and speed of the particle swarm optimization (PSO) algorithm, the influence of the function concavity of the inertia weight reduction strategy on the performance of the algorithm is analyzed by heuristic and contrast experiments.

An Inertia Weight Variable Particle Swarm Optimization ...

Its final optimization result is related to the control parameters selection; therefore, an improved convergence particle swarm optimization algorithm with random sampling of control parameters is proposed.

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