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A Quantum-inspired Cuckoo Search Algorithm for the Travelling Salesman Problem Improved Cuckoo Search Algorithm For

We presented an improved cuckoo search algorithm for real-industrial hybrid flow shop scheduling problems. • To the best of our knowledge

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this is the first attempt to apply the cuckoo search algorithm to a real-industrial scheduling problem. • Computational experiments are conducted to validate the proposed algorithm. •

Improved cuckoo search algorithm for hybrid flow shop ...

Cuckoo Search (CS) is a recently proposed metaheuristic algorithm to solve optimization problems. For improving its performance both on the efficiency of searching and the speed of convergence, we proposed an improved Cuckoo Search algorithm based on the teaching-learning strategy (TLCS). For a better balance between intensification and diversification, both a dynamic weight factor and an out-of-bound project strategies are also introduced into TLCS.

Improved Cuckoo Search algorithm for numerical function ...

This paper proposes an improved cuckoo search (ICS) algorithm to establish the parameters of chaotic systems. In order to improve the optimization capability of the basic cuckoo search (CS) algorithm, the orthogonal design and simulated annealing operation are incorporated in the CS algorithm to enhance the exploitation search ability.

An Improved Cuckoo Search Optimization Algorithm for the ...

Although Cuckoo Search (CS) is a quite new nature-inspired

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metaheuristic optimization algorithm, it has been extensively used in engineering applications, since it has been proven very efficient in solving complex nonlinear problems. In this paper, efficient modifications have been made to the original CS algorithm to enhance its efficiency and robustness.

Improved Cuckoo Search algorithmic variants for ...

The improved cuckoo search optimization algorithm is consisting of the walking one strategy, swap and inversion strategy and greedy strategy. The proposed improved cuckoo search optimization algorithm can solve the planar graph coloring problem using four-colors more efficiently and accurately.

An improved Cuckoo Search Algorithm for Solving Planar ...

An improved cuckoo search algorithm is proposed for solving the EDNR problem. • A local search mechanism is added for original CSA to exploit search space. • The ICSA is applied to the 33-node, 69-node and 119-node test networks for evaluation. • The ICSA has better performance in comparison to original CSA and other methods.

An improved cuckoo search algorithm for the problem of ...

Abstract The cuckoo search algorithm is a recently developed meta-

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heuristic optimization algorithm, which is suitable for solving optimization problems. To enhance the accuracy and convergence rate...

Improved Cuckoo search algorithm for global optimization ...

An improved cuckoo search algorithm with adaptive method is proposed. The self-adaptive machine is used to control the scaling factor and find probability so as to improve population diversity and...

An Improved Cuckoo Search Algorithm with Adaptive Method

In operations research, cuckoo search is an optimization algorithm developed by Xin-she Yang and Suash Deb in 2009. It was inspired by the obligate brood parasitism of some cuckoo species by laying their eggs in the nests of other host birds. Some host birds can engage direct conflict with the intruding cuckoos. For example, if a host bird discovers the eggs are not their own, it will either throw these alien eggs away or simply abandon its nest and build a new nest elsewhere. Some cuckoo specie

Cuckoo search - Wikipedia

Abstract- The cuckoo search algorithm is a recently developed meta-heuristic optimization algorithm, which is suitable for solving optimization problems. To enhance the accuracy and convergence rate of

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this algorithm, an improved cuckoo search algorithm is proposed in this paper. Normally, the parameters of the cuckoo search are kept constant.

Improved Cuckoo Search Algorithm for Global Optimization

This paper proposes an improved version of cuckoo search for multi-objective problems (IMOCs). Combined with nondominated sorting, crowding distance and Levy flights, elitism strategy is applied to improve the algorithm. Then numerical studies are conducted to compare the algorithm with DEMO and NSGA-II against some benchmark test functions.

An improved Cuckoo search algorithm for multi-objective ...

This paper presents an improved cuckoo search algorithm (ICSA) for solving the short-term hydrothermal scheduling (ST-HTS) problem. In the proposed ICSA, the initial eggs are first classified into two groups including top group and abandoned group and each egg in the two groups is then newly generated via Lévy flights.

Improved Cuckoo Search Algorithm for Nonconvex ...

Since the cuckoo algorithm was proposed, various improved versions of the algorithm have been proposed for different uses, such as Modified

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Cuckoo Search (MCS) [8], Binary Cuckoo Search (BCS) [9], Multiobjective Cuckoo Search (MOCS) [10], Chaotic Cuckoo Search (CCS) [11], etc.

Improved Compact Cuckoo Search Algorithm Applied to ...

In order to overcome these disadvantages, an improved CS algorithm based on Broyden-Fletcher-Goldfarb-Shanno (BFGS) algorithm (CS-BFGS) is proposed for solving inverse geometry heat conduction problems, and the physical field is the steady-state heat conduction.

Improved Cuckoo Search Algorithm for Solving Inverse ...

In this paper, an improved hybrid encoding cuckoo search algorithm (ICS) with greedy strategy is put forward for solving 0-1 knapsack problems. First of all, for solving binary optimization problem with ICS, based on the idea of individual hybrid encoding, the cuckoo search over a continuous space is transformed into the synchronous evolution search over discrete space.

An Improved Hybrid Encoding Cuckoo Search Algorithm for 0 ...

Aiming at the problem that the standard cuckoo search algorithm relies on Levy flights, which leads to the step-size randomness of the search process, a self-adaptive step cuckoo search algorithm b...

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Improved cuckoo search algorithm and its application to ...

This paper implements a compact cuckoo search algorithm with mixed uniform sampling technology, and, for the problem of weak search ability of the algorithm, this paper combines the method of recording the key positions of the search process and increasing the number of generated solutions to achieve further improvements, as well as implements the improved compact cuckoo search algorithm.

Improved Compact Cuckoo Search Algorithm Applied to ...

using improved cuckoo search algorithm for internet of things
Chunguang Zhang¹ & Guangping Zeng¹ & Hongbo Wang¹ & Xuyan Tu¹
Published online: 20 January 2020 # Springer Science+Business Media, LLC, part of Springer Nature 2019 Correction to: Peer-to-Peer Netw. Appl. 2019, 12(6): 1606–1614

Correction to: Hierarchical resource scheduling method ...

Therefore an improved cuckoo search (ICS) algorithm for clustering is proposed, in which the movement and randomization of the cuckoo is modified. The simulation results of ICS clustering method on UCI benchmark data sets compared with other different clustering algorithms show that the new algorithm is feasible and efficient in

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data clustering, and the stability and convergence speed both get ...

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