

A Novel Hybrid Imperialist Competitive Algorithm For

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A Novel Hybrid Imperialist Competitive

A novel hybrid algorithm of imperialist competitive algorithm and teaching learning algorithm for optimal power flow problem with non-smooth cost functions

A novel hybrid algorithm of imperialist competitive ...

a novel hybrid imperialist competitive algorithm with simulated annealing (HICASA) for solving the FJSP. HICASA explores the search space by using imperial competitive algorithm (ICA) and use a simulated annealing (SA) algorithm for exploitation in the search space. In order to obtain reliable results

A Hybrid Imperialist Competitive Algorithm for the ...

In this paper, we propose a novel algorithm that is based on combining two algorithms of clustering: k-means and Modify Imperialist Competitive Algorithm. It is named hybrid K-MICA. In addition, we use a method called modified expectation maxi-mization (EM) to determine number of clusters. The experimented results show that

A new hybrid imperialist competitive algorithm on data ...

A novel multiobjective hybrid imperialist competitive algorithm (MOHICA) is proposed to solve this problem. In the presented MOHICA, the sigma method is employed to quantify every individual, a novel merging method is introduced to reserve better individuals into the evolutionary population, and late acceptance hill-climbing (LAHC) algorithm is presented as a local search algorithm to achieve accurate balance between intensification and diversification.

Multiobjective Program and Hybrid Imperialist Competitive ...

paper explores the use of a combination of two stand-alone metaheuristics to tackle the MDVRP. The main contribution of this paper is the novel hybrid 2-stage Imperialist Competitive Algorithm (ICA) with Ant Colony Optimization (ACO) called ACO-ICA as an improvement of its algorithm counterparts for solving the MDVRP.

Hybrid 2-stage Imperialist Competitive Algorithm with Ant ...

A Novel Imperialist Competitive Algorithm for Multithreshold Image Segmentation ICA is a population-based metaheuristic. Each individual of population represents a country and some best countries are selected as imperialists in the initialization. Its main process is described as follows:

A Novel Imperialist Competitive Algorithm for ...

For the proposed solution, we first apply a weighted max-min fuzzy goal programming approach to convert the proposed multiobjective programming model into a single-objective one. After that, we design a novel hybrid of an imperialist competitive algorithm (ICA) and a firefly algorithm (FA), termed ICA-FA, to solve it.

A Novel Hybrid ICA-FA Algorithm for Multiperiod Uncertain ...

The evaluation and precise prediction of safety factor (SF) of slopes can be useful in designing/analyzing these important structures. In this study, an attempt has been made to evaluate/predict SF of many homogenous slopes in static and dynamic conditions through applying various hybrid intelligent systems namely imperialist competitive algorithm (ICA)-artificial neural network (ANN), genetic ...

Applying various hybrid intelligent systems to evaluate ...

This paper has proposed a novel Hybrid modified Genetic - Imperialist Competitive Algorithm (HGICA) for solving thermal Unit Commitment Problem (UCP). The UCP is a mixed integer problem with many equality and inequality constraints like the minimum down and minimum up time, spinning reserve, and ramp rate so need to a complex optimization process.

A priority list based approach for solving thermal unit ...

Abstract In this paper, we developed a novel hybrid model ICA-XGBoost for estimating blast-produced ground vibration in a mine based on extreme gradient boosting (XGBoost) and imperialist...

(PDF) Computational Intelligence Model for Estimating ...

hybrid approach based on binary particle swarm optimization (BPSO) and binary imperialist competitive algorithm (BICA) is proposed in this paper to find optimal procurement for large consumers with...

A Novel Hybrid Algorithm Based on Combined BICA-BPSO for ...

The application of models provided by artificial neural network (ANN) in predicting bearing capacity of driven pile is underlined in several investigations. However, weakness of ANN in slow rate of convergence as well as finding reliable testing output is known to be the major drawbacks of implementing ANN-based techniques. The present study aims to introduce and evaluate an optimized ANN with ...

Optimizing an ANN model with ICA for estimating bearing ...

Adaptive neuro-fuzzy inference system (ANFIS) includes two novel GIS-based ensemble artificial intelligence approaches called imperialistic competitive algorithm (ICA) and firefly algorithm (FA).

Novel Hybrid Evolutionary Algorithms for Spatial ...

A Hybrid Imperialist Competitive-Gravitational Attraction Search Algorithm to Optimize Cloud Service Composition Amin Julia 1, Zalinda Othman2, Elankovan Sundararajan3(IEEE member) 1, 2 Data Mining and Optimization Research Group, Centre for Artificial Intelligence, 3 Industrial Computing Programme, School of Information Technology, Faculty of Information Science and Technology, Universiti ...

A Hybrid Imperialist Competitive-Gravitational Attraction ...

Ghasemi, M, Ghavidel, S, Rahmani, S A novel hybrid algorithm of imperialist competitive algorithm and teaching learning algorithm for optimal power flow problem with non-smooth cost functions. Eng Appl Artif Intel 2014 ; 29: 54 - 69 .

A multiobjective hybrid imperialist competitive algorithm ...

Abstract A hybrid imperialist competitive algorithm is presented.It uses assimilation, destruction/construction and imperialist development schemes.The algorithm is calibrated using Tapuchi method.For evaluation, it is compared against two effective existing algorithms. This paper deals with generalized traveling salesman problems.

A novel imperialist competitive algorithm for generalized ...

A lexicographical method is used to compare solutions and a novel imperialist competitive algorithm (ICA) is presented, in which a new strategy for initial empires is adopted. Some new improvements are also added in ICA to obtain high quality solutions, which are adaptive assimilation, adaptive revolution, imperialist innovation, and alliance and the novel way of imperialist competition.

A New Imperialist Competitive Algorithm for Multiobjective ...

Koopilipoor, et al. 51 applied various hybrid AI models, such as ANN-PSO, ANN-ICA (imperialist competitive algorithm), ANN-GA (genetic algorithm), and ANN-ABC (artificial bee colony), based on ...

Prediction of slope failure in open-pit mines using a ...

The scope of this study is to predict flyrock induced by blasting through a novel approach based on the combination of imperialist competitive algorithm (ICA) and artificial neural network (ANN). For this purpose, the parameters of 113 blasting operations were accurately recorded and flyrock distances were measured for each operation.

A Novel Approach for Blast-Induced Flyrock Prediction ...

A hybrid modified imperialist competitive algorithm and teaching learning-based optimization is applied to find a near-optimum solution of mixed integer nonlinear programming in large-sized problems.