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Enhanced Constrained Artificial Bee Colony

Enhanced Constrained Artificial Bee Colony Algorithm for Optimization Problems . Soudeh Babaeizadeh and Rohanin Ahmad . Department of Mathematical Sciences, Universiti Teknologi Malaysia, Malaysia . Abstract: Artificial Bee Colony (ABC) algorithm is a relatively new swarm intelligence algorithm that has attracted great deal

Enhanced Constrained Artificial Bee Colony Algorithm for ...

Babaeizadeh S. proposed constrained artificial bee colony algorithm where three new searching strategies were introduced to the employed bee, onlooker bee and scout bee respectively.

Enhanced Artificial Bee Colony Algorithm for Constrained ...

The standard artificial bee colony (ABC) algorithm involves exploration and exploitation processes which need to be balanced for enhanced performance. This paper proposes a new modified ABC algorithm named JA-ABC5 to enhance convergence speed and improve the ability to reach the global optimum by balancing exploration and exploitation processes. New stages have been proposed at the earlier stages of the algorithm to increase the exploitation process.

New Enhanced Artificial Bee Colony (JA-ABC5) Algorithm ...

Enhanced Constrained Artificial Bee Colony Enhanced Constrained Artificial Bee Colony Algorithm for Optimization Problems . Soudeh Babaeizadeh and Rohanin Ahmad . Department of Mathematical Sciences, Universiti Teknologi Malaysia, Malaysia . Abstract: Artificial Bee Colony (ABC) algorithm is a relatively new swarm intelligence algorithm that has

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Enhanced Artificial Bee Colony for Real Parameter Optimization Abdul G. Abro, Junita Mohamad-Saleh, and Noorazliza Sulaiman A P P P – solution to avert the demerits of standard-ABC without adding any additional control variable. The proposed technique relies on top-three global-best possible-solutions rather than only the ...

Enhanced Artificial Bee Colony for Real Parameter Optimization

Artificial Bee Colony (ABC) algorithm proposed by Karaboga and Bastuk [7]. We also measure performance of this enhanced algorithm against Karaboga`s original work. ABC is one of algorithms that model bee`s interactions in nature. replaced with a new food source by the scouts. The . 2 ABC Algorithm

Enhanced Artificial Bee Colony Algorithm Performance

Artificial bee colony (ABC) algorithm is a popular swarm intelligence based algorithm. Although it has been proven to be competitive to other population-based algorithms, there still exist some problems it cannot solve very well. This paper presents an Enhanced Hybridized Artificial Bee Colony (EHABC) algorithm for optimization problems.

An enhanced hybridized artificial bee colony algorithm for ...

Artificial bee colony algorithm (ABC) is such a novel technique proposed by Karaboga based on simulating the foraging behavior of honey bee swarm. The performance of ABC has already been

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compared to other EAs, such as GA, DE, and PSO,,. The results show that ABC is better than or at least comparable to the other compared methods.

Enhanced artificial bee colony algorithm through ...

Abstract. The artificial bee colony (ABC) algorithm is a popular swarm based technique, which is inspired from the intelligent foraging behavior of honeybee swarms. This paper proposes a new variant of ABC algorithm, namely, enhanced ABC with solution acceptance rule and probabilistic multisearch (ABC-SA) to address global optimization problems. A new solution acceptance rule is proposed where, instead of greedy selection between old solution and new candidate solution, worse candidate ...

An Enhanced Artificial Bee Colony Algorithm with Solution ...

In the following sections, the stochastic search method of artificial bee colony (ABC) is briefly reviewed and then the proposed enhanced ABC (EABC) approach is presented. 3.1. Artificial bee colony. The Artificial Bee Colony (ABC) algorithm is an evolutionary technique, first developed by Karaboga in 2005 , and later advocated by Basturk . ABC simulates the intelligent foraging behavior of honey bee swarms.

Security constrained multi-period optimal power flow by a ...

An enhanced Artificial Bee Colony (ABC) optimization algorithm, which is called the Interactive Artificial Bee Colony (IABC) optimization, for numerical optimization problems, is proposed in this...

(PDF) Enhanced artificial bee colony optimization

Enhanced Constrained Artificial Bee Colony Algorithm for Optimization Problems . Soudeh Babaeizadeh and Rohanin Ahmad . Department of Mathematical Sciences, Universiti Teknologi Malaysia, Malaysia . Abstract: Artificial Bee Colony (ABC) algorithm is a relatively new swarm intelligence algorithm that has attracted great deal Enhanced Constrained Artificial Bee Colony Algorithm for ...

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In this research, an improved constrained ABC (iABC) algorithm is proposed to address this class of optimization problems. The modifications that have been introduced in iABC include a novel chaotic approach to generate initial population and two new search equations to enhance exploitation ability of the algorithm.

An improved artificial bee colony algorithm for ...

employed bee and the employed bee is converted to a scout. In this paper, we present enhancements of the artificial bee colony algorithm for constrained problems proposed by Karaboga and Bastuk [11]. We also measure performance of this enhanced algorithm against Karaboga`s original work. II. ABC ALGORITHM

Modified artificial bee colony algorithm for constrained ...

For this purpose, a novel artificial bee colony based on constrained consensus strategy (ABCCC) is elaborated. Artificial bee colony (ABC) algorithm proposed by Karaboga is a latest heuristic algorithm, which is inspired by the foraging behavior of honey bees for numerical optimization problems . Compared with differential evolution (DE) and particle swarm optimization (PSO), ABC algorithm has two distinct advantages: (1) ABC is very good in terms of the local and the global optimization.

Constraint Consensus Based Artificial Bee Colony Algorithm ...

The Artificial Bee Colony (ABC) algorithm is a swarm based meta-heuristic algorithm that was introduced by Karaboga in 2005 (Karaboga, 2005) for optimizing numerical problems. It was inspired by the intelligent foraging behavior of honey bees.

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In this paper we present a modification of artificial bee colony (ABC) algorithm for constrained optimization problems. In nature more than one onlooker bee goes to a promising food source reported by employed bee. Our proposed modification forms a mutant solution in onlooker phase using three onlookers.