

## Enhanced Constrained Artificial Bee Colony Algorithm For

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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 ...

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 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 ...

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.

### An Enhanced Artificial Bee Colony Algorithm with Solution ...

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. The numerical...

### Enhanced Artificial Bee Colony Algorithm for Constrained ...

In this paper, we have proposed an enhanced artificial bee colony algorithm, called EABC through introducing self-adaptive searching strategy and artificial immune network operators. Subsequently, a suite of unimodal or multimodal benchmark functions are used to testify the performance of the proposed algorithm.

### Enhancing Artificial Bee Colony Algorithm with Self ...

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.

### An Enhanced Artificial Bee Colony Algorithm with Solution ...

An ensemble-based learning algorithm (DataBoost.IM) with SVM is employed for final classification to classify the cancer cells and non-cancer cells. Finally, the enhanced artificial bee colony (EABC) clustering is applied to discover the root cancer cell.

### Enhanced Artificial Bee Colony Algorithm for Liver Cancer ...

The artificial bee colony (ABC) algorithm is a global stochastic optimization algorithm inspired by simulating the foraging behavior of honey bees. It has been successfully applied to solve the constrained optimization problems (COPs) with a constraint handling technique (Deb's rules). However, it may also lead to premature convergence.

### An improved artificial bee colony algorithm for solving ...

Abstract: - This paper presents a modified Artificial Bee Colony (ABC) algorithm for constrained problems. Original Karaboga's ABC algorithm was for unconstrained problems only and modifications for constrained problems were introduced later. The performance of this modified algorithm was examined by Karaboga.

### Enhanced Artificial Bee Colony Algorithm Performance

Artificial Bee Colony (ABC) is one of the most popular nature inspired optimization algorithms. Recently, a variant of ABC, Gbest-guided ABC (GABC) was proposed. GABC was verified to perform better than ABC, in terms of efficiency and reliability.

### Modified global best artificial bee colony for constrained ...

Artificial bee colony (ABC) algorithm has been active research area recently and great number of modifications were suggested, both for unconstrained and constrained optimization problems. Our modification that is based on idea that in nature more than one onlooker bee goes to the promising food source is presented in this paper.

### Artificial bee colony algorithm for constrained ...

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.

### Artificial bee colony algorithm - Scholarpedia

Introduction: In order to optimize the reliability of the truss structure more effectively, an improved artificial bee colony algorithm based on small interval was proposed and employed to the engineering practice.

### Improved Artificial Bee Algorithm for Reliability-based ...

An enhanced Artificial Bee Colony (ABC) optimization algorithm, which is called the Interactive Artificial Bee Colony (IABC) optimization, for numerical optimiza- tion problems, is proposed in this paper. The onlooker bee is designed to move straightly

### ENHANCED ARTIFICIAL BEE COLONY OPTIMIZATION

The enhanced local search strategy proposed in this paper is based on one of the youngest constituent of NIA family the Artificial Bee Colony (ABC) algorithm, which mimics the extra ordinary food foraging behavior of most intelligent creepy-crawly that is honey bees swarm.

### Enhanced local search in artificial bee colony algorithm

Abstract: - 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.

### Artificial bee colony algorithm with multiple onlookers ...

Original Karaboga's artificial bee colony (ABC) algorithm was applicable to unconstrained problems only and modifications for constrained problems were introduced later.

### Modified 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 Enhanced Artificial Bee Colony (JA-ABC5) Algorithm ...

Abstract: In this paper we present a modified algorithm which integrates artificial bee colony (ABC) algorithm with adaptive guidance adjusted for constrained engineering optimization problems. The novel algorithm improves best found solutions in some cases and improves robustness i.e. mean value and variance for number