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## **Enhanced Constrained Artificial Bee Colony**

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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

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

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 ...

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## **(PDF) Enhanced artificial bee colony optimization**

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



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were introduced later. The performance of this modified algorithm was examined by Karaboga.

## **Enhanced Artificial Bee Colony Algorithm Performance**

An enhanced Artificial Bee Colony (ABC) optimization algorithm, which is called the Interactive Artificial Bee Colony

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(IABC) optimization, for numerical optimization problems, is proposed in this paper. The onlooker bee is designed to move straightly to the picked coordinate indicated by the employed bee and evaluates the fitness values

## **ENHANCED ARTIFICIAL BEE COLONY OPTIMIZATION**

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The facilitation of inter-vehicular communication by direct means or through fixed infrastructure devices like roadside units enable Vehicular Ad hoc NETWORK (VANET) to be the predominant environment for the deployment of Intelligent Transportation

## **Enhanced and Integrated Ant**

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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 ,

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and later advocated by Basturk . ABC simulates the intelligent foraging behavior of honey bee swarms.

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

enhanced artificial bee colony optimization 3 where  $p_{ij}$  denotes the position of the  $i$ th employed bee,  $p_{ij}$

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represents the number of employed bees, and  $p$  is the probability of selecting the ...

## **ENHANCED ARTIFICIAL BEE COLONY OPTIMIZATION**

Finally, the enhanced artificial bee colony (EABC) clustering is applied to discover the root cancer cell. The

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proposed EABC clustering approach is tested using the liver cancer cell data set, providing an accuracy level of 96.15 %, which is 95.61 % and 92.80 % higher than the ant colony optimization (ACO) and artificial bee colony (ABC) algorithms, respectively.

## **Enhanced Artificial Bee Colony**

# File Type PDF Enhanced Constrained Artificial Bee Colony Algorithm For **Algorithm for Liver Cancer ...**

Artificial Bee Colony (ABC) algorithm, an element of bio-inspired optimization algorithm, has captured much attention of researchers from various fields, in recent times. Moreover, various comparative studies clearly reports robust convergence of ABC algorithm in comparison to various other bio-inspired



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optimization algorithms [9-12].

## **An Enhanced Artificial Bee Colony Optimization Algorithm**

The remainder of the paper is organized as follows. In Section 2, the modified ABC algorithm adapted for solving constrained optimization problems is introduced and then in Section 3, the

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proposed algorithm is compared with other algorithms. Finally, in Section 4, conclusions and future works are provided.

## **A modified Artificial Bee Colony (ABC) algorithm for ...**

The Artificial Bee Colony (ABC) algorithm is a swarm based meta-heuristic

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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**

The artificial bee colony algorithm, firefly

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algorithm, and their recently proposed improved versions for constrained optimization are appropriately modified and applied to the case study. The heuristic algorithm based on modified Weiszfeld procedure is also implemented for the purpose of comparison with the metaheuristic approaches.

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**Application of Heuristic and  
Metaheuristic Algorithms in ...**

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.

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## **Enhanced local search in artificial bee colony algorithm**

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

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proposed modification forms a mutant solution in onlooker phase using three onlookers. This approach obtains better results than the original artificial bee colony algorithm ...

## **[PDF] Artificial bee colony algorithm with multiple ...**

e standard artificial bee colony (ABC)

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algorithm involves exploration and exploitation processes which need to be balanced for enhanced performance. This paper proposes a new modified ABC algorithm named JA-ABC to enhance convergence speed and improve the ability to reach the global optimum by balancing exploration and exploitation processes.



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## **Research Article New Enhanced Artificial Bee Colony (JA ...**

Abstract: Artificial bee colony (ABC) is a relatively new swarm intelligence based metaheuristic. It was successfully applied to unconstrained optimization problems and later it was adjusted for constrained problems as

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## **Artificial Bee Colony (ABC) Algorithm for Constrained ...**

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

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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 ...**

A Comparative Analysis of Enhanced Artificial Bee Colony Algorithms for Data

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Clustering. – In: International Conference on Computer Communication and Informatics (ICCCI'13) Coimbatore 2013. 176. Lee T. E. J. H. Cheng L. L. Jiang. A New Artificial Bee Colony Based Clustering Method and its Application to the Business Failure Prediction.

## **A Review on Artificial Bee Colony**

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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

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balancing exploration and exploitation processes.

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

Security constrained multi-period optimal power flow by a new enhanced artificial bee colony. Authors: Saber Armaghani: Department of Electrical

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Engineering, Semnan University,  
Semnan, Iran: Nima Amjady:  
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