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## 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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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

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Colony Algorithm For ... 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 ...

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.

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Enhanced artificial bee colony algorithm  
through ...

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 ...

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

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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 ...

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

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Colony 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 ...

A modified Artificial Bee Colony algorithm to solve constrained numerical optimization problems is presented in this paper. Four modifications related with the selection mechanism, the scout bee operator, and the equality and boundary constraints are made to the algorithm with the aim to modify its behavior in a constrained search space.

Empirical analysis of a modified Artificial Bee Colony for ...

The artificial bee colony is a simple and



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Colony Optimization Algorithm. It is an effective global optimization algorithm. It has been successfully applied to solve a wide range of real-world optimization problem, and later, it was extended to constrained design problems as well.

Self-adaptive constrained artificial bee colony 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 ...

Karaboga D., Basturk B. (2007) artificial bee colony (ABC) optimization algorithm for solving constrained optimization

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Colony Algorithms For  
problems, lecture notes in artificial  
intelligence 4529. Springer, Berlin, pp  
789 – 798. Google Scholar

## Artificial Bee Colony and Tabu Search Enhanced TTCM ...

This work proposes an improved artificial bee colony (ABC) algorithm, called the rank-based ABC algorithm, which includes a rank-based selection mechanism in the on-looker bees phase and a modified abandonment mechanism in the scout bees phase for solving unconstrained and constrained optimization problems. In the onlooker bees phase,

## An Improved Artificial Bee Colony Algorithm Applied to ...

Abstract. An enhanced Arti fi cial Bee Colony (ABC) optimization algorithm, which is called the Interactive Arti fi cial Bee Colony (IABC) optimization, for

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Colony Optimization Problems, is  
proposed...

## ENHANCED ARTIFICIAL BEE COLONY OPTIMIZATION

Soudeh Babaeizadeh and Rohanin  
Ahmad, " An Efficient Artificial Bee  
Colony Algorithm for Constrained  
Optimization Problems " , Journal of  
Engineering and Applied Sciences, 2014 .  
Deb K (2000) An ef fi cient constraint  
handling method for genetic algorithms.  
Comput Method Appl M  
186(2):311 – 338.

IJCA - An Improved Artificial Bee Colony  
Algorithm for ...

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

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Colony Algorithm  
inspired by the intelligent foraging behavior of honey bees. The algorithm is specifically based on the model proposed by Tereshko and Loengarov (2005) for the foraging behaviour of honey bee colonies.

Artificial bee colony algorithm -  
Scholarpedia

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.

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Colony Consensus Based Artificial Bee  
Colony Algorithm ...

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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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Colony Algorithm for ...

Enhanced Constrained Artificial Bee  
Colony Algorithm For  
Rajneet Kaur and Shaveta Angurala, “  
Enhanced DRFN Failover Scheme Using  
Artificial Bee Colony Based Optimization  
in Wireless Sensor Networks ” ,  
International Journal of Engineering and  
Innovative Technology (IJEIT), Vol 5,

# Download Free Enhanced Constrained Artificial Bee Colony Algorithm For Issue 1, pp.59-63, 2015

IJCA - Improving Displacement Number  
and Overheads of DRFN ...

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.

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