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Lec 17 : Artificial  
Bee Colony  
Algorithm Working  
of the Artificial Bee  
Colony (ABC)

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Algorithm in 20  
minutes ~~Artificial  
Bee Colony (ABC)  
Visualized~~

~~Artificial  
Intelligence  
MATLAB Code of  
Artificial Bee  
Colony (ABC)  
Algorithm Artificial  
Bee Colony  
Optimization  
ARTIFICIAL BEE  
COLONY~~

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~~OPTIMIZATION  
ALGORITHM WITH  
APPLICATION TO  
ENGINEERING  
PROBLEMS~~

Philosophy of  
Artificial Bee  
Colony Optimisation  
Technique Artificial  
Bee Colony Beale  
Function ~~Step by  
Step Procedure of  
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Implementation of  
Artificial Bee  
Colony using  
MATLAB Artificial  
Bee Colony Bees  
Algorithm How to  
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Cell Starter  
Beehives Artificial  
bee colony  
algorithm Native  
Stingless Bees—  
How to make a hive  
seperator The

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Waggle Dance of  
the Honeybee  
Queen Rearing  
Basics - How to  
create an Artificial  
Swarm Part 2 2016  
Selection Methods  
for Honey Bee  
Breeding ~~What are~~  
~~Heuristics?~~ What If  
We Killed All the  
Mosquitoes? ~~ABC~~  
~~Algorithm~~ Using  
The Bricks



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System... To Mark  
Bee Colony Status

Artificial Bee

Colony Algorithm

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Colony Optimization

| Amit Kumar

Mishra | SISTec

GandhiNagar Using  
the Bee colony

Algorithm to solve  
the Knight's Tour

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~~Working of  
Artificial Bee  
Colony Algorithm~~

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Artificial Bee

Colony Supported  
Passive Artificial

Bee Algorithm for  
Enhancement of

QoS in Web

Services Selection

Problem Bee colony

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Artificial Bee  
Colony  
Algorithm For  
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Constrained  
Artificial Bee  
Colony Algorithm  
for Optimization  
Problems . Soudeh  
Babaeizadeh and  
Rohanin Ahmad .  
Department of

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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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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

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respectively.

Artificial Bee  
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

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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

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proposed at the  
earlier stages of the  
algorithm to  
increase the  
exploitation For  
process.

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

Artificial bee colony  
algorithm (ABC) is  
such a novel



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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

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other compared  
methods.

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

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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.

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

Artificial Bee For  
Colony (ABC)

algorithm proposed  
by Karaboga and  
Bastuk [7]. We also  
measure

performance of this  
enhanced algorithm  
against Karaboga`s  
original work. ABC

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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

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(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

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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

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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-



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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

*Page 25/47*

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Colony Algorithm  
with Solution ...

A modified Artificial  
Bee Colony

Algorithm For  
constrained

numerical  
optimization

problems is  
presented in this

paper. Four  
modifications

related with the  
selection

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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

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## Artificial Bee Colony for ...

The artificial bee colony is a simple and 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

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problems as well.

## Artificial Bee Colony

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

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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

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Constrained ...

Karaboga D.,  
Basturk B. (2007)  
artificial bee colony  
(ABC) optimization  
algorithm for  
solving constrained  
optimization  
problems, lecture  
notes in artificial  
intelligence 4529.  
Springer, Berlin, pp  
789 – 798. Google  
Scholar

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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



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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,

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An Improved  
Artificial Bee  
Colony Algorithm  
Applied to ...

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

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Optimization, for  
numerical optimization  
problems, is  
proposed...

Algorithm For

ENHANCED

ARTIFICIAL BEE

COLONY

OPTIMIZATION

Soudeh

Babaeizadeh and

Rohanin Ahmad, ”

An Efficient

Artificial Bee

*Page 35/47*

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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.

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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

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numerical problems.

It was 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.

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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

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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



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two distinct  
advantages: (1)  
ABC is very good in  
terms of the local  
and the global  
optimization.

Constraint  
Consensus Based  
Artificial Bee  
Colony Algorithm ...  
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Constrained  
Artificial Bee

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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

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Swarm intelligence  
algorithm that has  
attracted great deal  
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Artificial Bee  
Colony Algorithm  
for ...

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Constrained  
Artificial Bee  
Colony Algorithm  
For

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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

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(IJEIT), Vol 5,  
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

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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

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in this paper.  
Artificial Bee  
Colony  
Algorithm For

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