

[Institutional Sign In](#)[BROWSE](#)[MY SETTINGS](#)[GET HELP](#)[WHAT CAN I ACCESS?](#)[SUBSCRIBE](#)Browse Conference Publications > Computer and Knowledge Engine ... 

A novel Artificial Bee Colony algorithm for global optimization

[Full Text](#)
[Sign-In or Purchase](#)2
Author(s)Yazdani, Donya ; Department of Electrical Engineering, Computer and Information Technology, Science and Research Branch, Islamic Azad University Qazvin
Meybodi, Mohammad Reza

Abstract	Authors	References	Cited By	Keywords	Metrics	Sir

Artificial Bee Colony (ABC) algorithm is a swarm-based optimization algorithm with advantages like simplicity and proper exploration ability. However, it suffers from improper exploitation in solving complicated problems. In order to overcome this disadvantage, modifications on all three bee types

are proposed. By introducing a new procedure for the scout bees and modifying the search patterns of both employed and onlooker bees, the capabilities of all three bee types are utilized properly. These modifications lead to better exploitation and exploration abilities. Experiments are conducted on 12 different benchmark functions including standard, shifted, rotated, and shifted-rotated multimodal problems. The results confirm the superiority of the proposed algorithm compared with some other well-known algorithms in this field.

Published in:

Computer and Knowledge Engineering (ICCKE), 2014 4th International eConference on

Date of Conference:

29-30 Oct. 2014

Page(s):

443 - 448

Print ISBN:

978-1-4799-5486-5

Conference Location :

Mashhad, Iran

DOI:

10.1109/ICCKE.2014.6993393

Publisher:

IEEE

[Personal Sign In](#) | [Create A](#)

IEEE Account	Purchase Details	Profile Information	Need Help?
» Change Username/Password	» Payment Options	» Communications Preferences	» US & Canada: +1 800 678 4333
» Update Address	» Order History	» Profession and Education	» Worldwide: +1 732 981 0060
	» Access Purchased Documents	» Technical Interests	» Contact & Support

[About IEEE Xplore](#) | [Contact Us](#) | [Help](#) | [Terms of Use](#) | [Nondiscrimination Policy](#) | [Sitemap](#) | [Privacy & Opting Out of Cookies](#)

A not-for-profit organization, IEEE is the world's largest professional association for the advancement of technology.
© Copyright 2014 IEEE - All rights reserved. Use of this web site signifies your agreement to the terms and conditions.