

International Journal Artificial Intelligence

ISSN 0974-0635

HOME ABOUT LOG
IN REGISTER SEARCH CURRENT ARCHIVES SUBSCRIP
BOARD AUTHOR INSTRUCTIONS

Home > 2013 Autumn (October), Volume 11, Number A13 [Issue is in Process] > **Yazdani**

A New Algorithm Based on Improved Artificial Fish Swarm Algorithm for Data Clustering

Danial Yazdani, Barat Saman, Alireza Sepas-Moghaddam, Farhad Mohammad-Kazemi, Mohammad Reza Meybodi, Mohammad Reza Meybodi

Abstract

In numerous real world optimization problems, objective function or constraints of the problem can be changed during time. If these undefined situations are occurred in optimization process, this problem is called dynamic. There are several challenges in dynamic environments optimization, so that algorithms designed for optimization in these environments would utilize several mechanisms in order to conquer the challenges. In this paper, a novel algorithm for optimization in dynamic environments is proposed based on particle swarm optimization in which a novel mechanism have been used for improving the performance. In this mechanism, it is tried to increase the ability of local search around optimum with focusing on best found peak in each environments. The results of the proposed approach are evaluated on moving peak benchmarks and are compared with results of several state of the art algorithms. Experimental results show the superiority of the proposed method.

Keywords

Artificial Fish Swarm Algorithm, Data Clustering, K-means, Swarm Intelligence, Optimization.

USER

Username

Password

☐ Remember me

SUBSCRIPTION

Login to verify subscription

JOURNAL CONTENT

Search

All

Browse

- [By Issue](#)
- [By Author](#)
- [By Title](#)
- [Other Journals](#)

FONT SIZE

INFORMATION

- [For Readers](#)
- [For Authors](#)
- [For Librarians](#)

This document was created with Win2PDF available at <http://www.daneprairie.com>.
The unregistered version of Win2PDF is for evaluation or non-commercial use only.