

International Journal of Artificial Intelligence

ISSN 0974-0635

HOME ABOUT LOGIN REGISTER SEARCH CURRENT
ARCHIVES EDITORIAL BOARD AUTHOR INSTRUCTIONS
SUBSCRIPTIONS

Home > 2013 Autumn (October), Volume 11, Number A13 > Yazdani

 Open Access  Subscription or Fee Access

Optimization in Dynamic Environments Utilizing a Novel Method Based on Particle Swarm Optimization

Danial Yazdani, Babak Nasiri, Reza Azizi, Alireza Sepas-Moghaddam,
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

Dynamic optimization problems, particle swarm optimization, moving peaks benchmark, dynamic environments, swarm intelligence, Local Search.

Full Text:

 PDF 

Regarding indexing issue:

We have provided the online access of all issues & papers to the all indexing agencies (as given on our journal home web site). **It's depend on indexing**

SUBSCRIPTION

Login to verify
subscription
[Give a gift
subscription](#)

USER

Username

Password

☐ Remember me

Login

NOTIFICATIONS

- [View](#)
- [Subscribe](#)

JOURNAL CONTENT

Search

Search Scope

All

Search

Browse

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

FONT SIZE

INFORMATION

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

agencies when, how and what manner they can index or not. So, please neither sends any question nor expects any answer from us on the behalf of third party i.e. indexing agencies. Our role is just to provide the online access to them. So we do properly this and one can visit indexing agencies website to get the authentic information.