

# Open Journal of Optimization



ISSN: 2325-7105



<https://www.scirp.org/journal/ojop>

# Journal Editorial Board

ISSN Print: 2325-7105

ISSN Online: 2325-7091

<https://www.scirp.org/journal/ojop>

---

## Editorial Board

<b>Dr. Brahim Benyahia</b>	Massachusetts Institute of Technology, USA
<b>Prof. Wanyang Dai</b>	Nanjing University, China
<b>Prof. Mohsen Elhafsi</b>	University of California-Riverside, USA
<b>Prof. Wenhao Gui</b>	University of Minnesota Duluth, USA
<b>Prof. Karim Hamza</b>	University of Michigan, USA
<b>Prof. Onésimo Hernández-Lerma</b>	CINVESTAV-IPN, Mexico
<b>Dr. Kun-Lin Hsieh</b>	National Taitung University, Chinese Taipei
<b>Dr. Qinma Kang</b>	Shandong University at Weihai, China
<b>Prof. Anand Kishore Kola</b>	National Institute of Technology, India
<b>Dr. Zhenhong Lin</b>	Oak Ridge National Laboratory, USA
<b>Prof. Yinghua Liu</b>	Tsinghua University, China
<b>Dr. Giuseppe De Marco</b>	University of Naples “Parthenope”, Italy
<b>Prof. Vishwa Nath Maurya</b>	University of Fiji, Fiji
<b>Prof. D. Subbaram Naidu</b>	Idaho State University, USA
<b>Prof. Daowen Qiu</b>	School of Computer Science and Engineering, Sun Yat-sen University, China
<b>Dr. Mohammad Reza Shadnam</b>	KPMG, Canada
<b>Dr. Dengfeng Sun</b>	Purdue University, USA
<b>Dr. Om Prakash Verma</b>	Dr. B.R. Ambedkar NIT Jalandhar, India
<b>Prof. Dexiang Wang</b>	Juniper Networks, USA

# Table of Contents

**Volume 13    Number 2**

**June 2024**

**A New Multiobjective Particle Swarm Optimization Using Local Displacement and Local Guides**

S. C. Rawhoudine, A. Halassi Bacar ..... 31

# Open Journal of Optimization (OJOp)

## Journal Information

### SUBSCRIPTIONS

The *Open Journal of Optimization* (Online at Scientific Research Publishing, <https://www.scirp.org/>) is published quarterly by Scientific Research Publishing, Inc., USA.

#### Subscription rates:

Print: \$69 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: [sub@scirp.org](mailto:sub@scirp.org)

### SERVICES

#### Advertisements

Advertisement Sales Department, E-mail: [service@scirp.org](mailto:service@scirp.org)

#### Reprints (minimum quantity 100 copies)

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: [sub@scirp.org](mailto:sub@scirp.org)

### COPYRIGHT

#### Copyright and reuse rights for the front matter of the journal:

Copyright © 2024 by Scientific Research Publishing Inc.

This work is licensed under the Creative Commons Attribution International License (CC BY).

<http://creativecommons.org/licenses/by/4.0/>

#### Copyright for individual papers of the journal:

Copyright © 2024 by author(s) and Scientific Research Publishing Inc.

#### Reuse rights for individual papers:

Note: At SCIRP authors can choose between CC BY and CC BY-NC. Please consult each paper for its reuse rights.

#### Disclaimer of liability

Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assume no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

### PRODUCTION INFORMATION

For manuscripts that have been accepted for publication, please contact:

E-mail: [ojop@scirp.org](mailto:ojop@scirp.org)





*Call\_for\_Papers*

# Open Journal of Optimization

ISSN Print: 2325-7105 ISSN Online: 2325-7091

<https://www.scirp.org/journal/ojop>

Open Journal of Optimization (OJO) is an open access journal published quarterly. The goal of this journal is to provide a platform for scientists and academicians all over the world to promote, share, and discuss various new issues and developments in all aspects of optimization.

## Subject Coverage

All manuscripts must be prepared in English, and are subject to a rigorous peer-review process. Accepted papers will immediately appear online followed by printed hard copy. The journal publishes original papers including but not limited to the following fields:

### Applications of Optimization in Science and Engineering

- Aerospace, Automotive, Biomedical, Chemical, Civil, Electrical, Environmental, Industrial, Mechanical, Mining, Naval, Structural, Robotics and Transportation Engineering
- Biology, Toxicology and Forestry
- Computer-Aided Design, Design Automation, Multi-Disciplinary Design, Topology Optimization
- Control Theory, Dynamic Systems and Vibrations
- Energy Systems and Sustainability
- Financial Systems, Business, Management, Economics, Accounting, Supply-Chains and Inventory Control
- Information Technology and Software Development
- Reliability and Robust Design

### Optimization Methods and Theories

- Calculus of Variations
- Dynamic Programming
- Evolutionary Computation
- Game Theory
- Graph Theory
- Heuristic Algorithms
- Linear and Nonlinear Programming
- Network Algorithms
- Optimal Control
- Stochastic and Parametric Programming
- Swarm Intelligence
- Test Problems for Optimization Algorithms

### Optimization of Computational Techniques

- Meta-Modeling, Neural Networks and Fuzzy Logic
- Numerical Methods and Large-Scale Systems
- Social Systems Modeling
- Time Series Analysis and Forecasting

## Notes for Intending Authors

We are also interested in: 1) Short reports—2-5 page papers where an author can either present an idea with theoretical background but has not yet completed the research needed for a complete paper or preliminary data; 2) Book reviews—Comments and critiques.

## Website and E-Mail

<https://www.scirp.org/journal/ojop>

E-mail: [ojop@scirp.org](mailto:ojop@scirp.org)

## ***What is SCIRP?***

Scientific Research Publishing (SCIRP) is one of the largest Open Access journal publishers. It is currently publishing more than 200 open access, online, peer-reviewed journals covering a wide range of academic disciplines. SCIRP serves the worldwide academic communities and contributes to the progress and application of science with its publication.

## ***What is Open Access?***

All original research papers published by SCIRP are made freely and permanently accessible online immediately upon publication. To be able to provide open access journals, SCIRP defrays operation costs from authors and subscription charges only for its printed version. Open access publishing allows an immediate, worldwide, barrier-free, open access to the full text of research papers, which is in the best interests of the scientific community.

- High visibility for maximum global exposure with open access publishing model
- Rigorous peer review of research papers
- Prompt faster publication with less cost
- Guaranteed targeted, multidisciplinary audience



**Scientific  
Research  
Publishing**

**Website: <https://www.scirp.org>**

**Subscription: [sub@scirp.org](mailto:sub@scirp.org)**

**Advertisement: [service@scirp.org](mailto:service@scirp.org)**