

ISSN: 2161-7635

Volume 12, Number 2, April 2022



# Open Journal of Discrete Mathematics



ISSN: 2161-7635



9 772161 763001 02

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

# Journal Editorial Board

ISSN 2161-7635 (Print) ISSN 2161-7643 (Online)

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

---

## Editor-in-Chief

**Prof. Viorel Nitica**

Department of Mathematics, West Chester University, USA

## Editorial Board

**Prof. Octavian Agratini**

Babes-Bolyai University, Romania

**Prof. Haydar Akca**

Abu Dhabi University, UAE

**Dr. Tiru Arthanari**

University of Auckland, New Zealand

**Prof. S. Arumugam**

Kalasalingam Academy of Research and Education, India

**Dr. Ibrahim Büyükyazici**

Ankara University, Turkey

**Dr. Ardeshir Dolati**

Shahed University, Iran

**Prof. Amr Elmasry**

Alexandria University, Egypt

**Prof. E. M. Elsayed**

King AbdulAziz University, Saudi Arabia

**Prof. Juan Luis García Guirao**

Universidad Politécnica de Cartagena, Spain

**Prof. Mario Gionfriddo**

Catania University, Italy

**Prof. Tianxiao He**

Illinois Wesleyan University, USA

**Prof. Pawel Hitczenko**

Drexel University, USA

**Prof. Rukhmoni Kala**

Manonmaniam Sundaranar University, India

**Prof. Dae San Kim**

Sogang University, South Korea

**Prof. Christian Lavault**

Université Paris 13, France

**Prof. Rao Li**

University of South Carolina Aiken, USA

**Prof. Rong Luo**

West Virginia University, USA

**Prof. Hosam M. Mahmoud**

The George Washington University, USA

**Prof. Yannis Manoussakis**

University Paris-XI, France

**Prof. Toufik Mansour**

University of Haifa, Israel

**Dr. Radu Miculescu**

University of Bucharest, Romania

**Prof. Reza Modarres**

The George Washington University, USA

**Dr. Sudev Naduvath**

Christ University, India

**Prof. Jeyanthi P.**

Govindammal Aditanar College for Women, India

**Prof. Nicolae Adrian Secolean**

Lucian Blaga University from Sibiu, Romania

**Prof. Sandor Szabo**

University of Pécs, Hungary

**Prof. Liming Xiong**

Beijing Institute of Technology, China

**Prof. Kexiang Xu**

Nanjing University of Aeronautics and Astronautics, China

**Prof. Qinglin Roger Yu**

Thompson Rivers University, USA

**Dr. Taoye Zhang**

Penn State Scranton, USA

**Prof. Xiaodong Zhang**

Shanghai Jiao Tong University, China

# Table of Contents

**Volume 12    Number 2**

**April 2022**

## **Acute Triangulations of the Surface of Circular Cone**

X. Feng, P. H. Cao, Z. K. Chang.....17

# Open Journal of Discrete Mathematics (OJDM)

## Journal Information

### SUBSCRIPTIONS

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

#### **Subscription rates:**

Print: \$79 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 © 2022 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 © 2022 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**

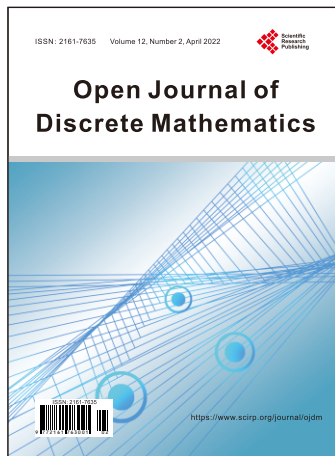
Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assume no responsibility or liability for any damage or injury to persons or property arising out of the use of any 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: [ojdm@scirp.org](mailto:ojdm@scirp.org)





***Call for Papers***

# Open Journal of Discrete Mathematics

ISSN: 2161-7635 (Print)      ISSN: 2161-7643 (Online)  
<https://www.scirp.org/journal/ojdm>

***Open Journal of Discrete Mathematics (OJDM)*** is an international journal dedicated to the latest advancement of discrete mathematics. 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 different areas of discrete mathematics.

## Subject Coverage

The journal publishes original papers including but not limited to the following fields:

- Calculus of finite differences, discrete calculus or discrete analysis
- Combinatorics
- Discrete algorithms
- Discrete analogues of continuous mathematics
- Discrete probability
- Game theory, decision theory, utility theory, social choice theory
- Graph theory
- Hybrid discrete and continuous mathematics
- Information theory
- Networks

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.

## Notes for Intending Authors

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. All papers are refereed through a peer review process. For more details about the submissions, please access the website.

## Website and E-Mail

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

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