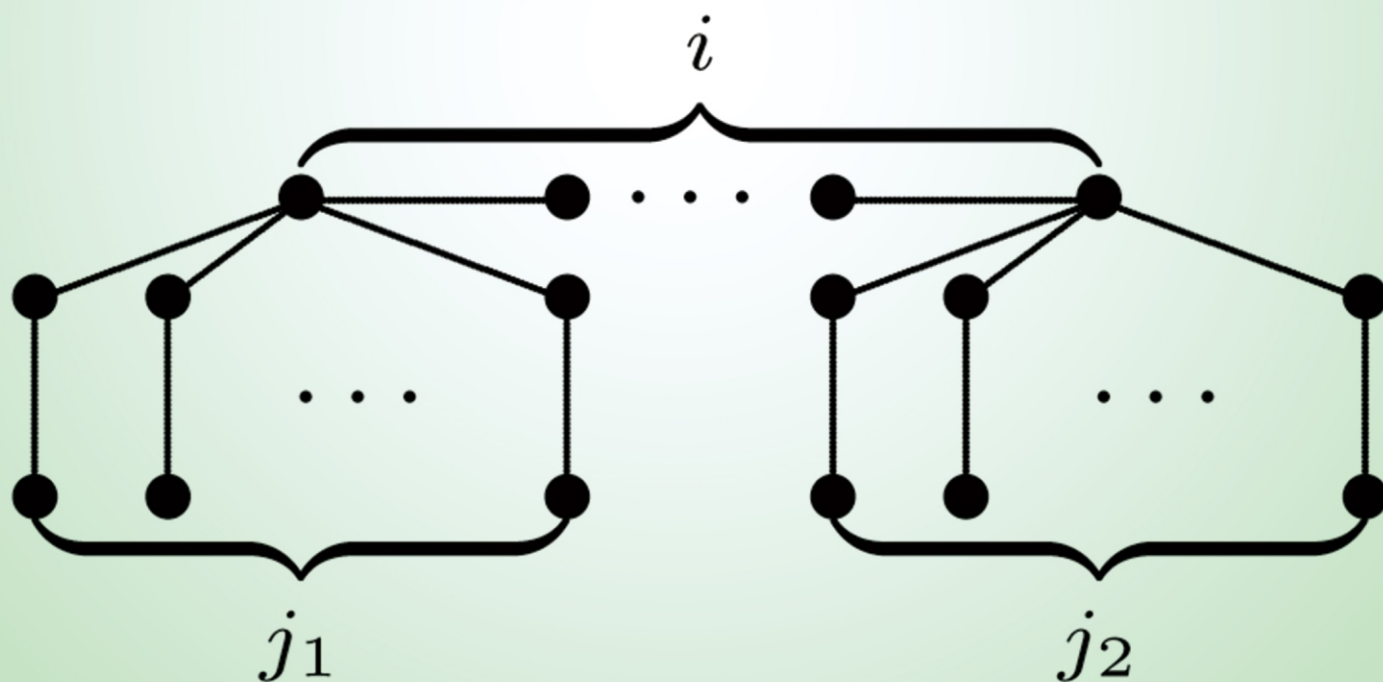


Open Journal of Discrete Mathematics



ISSN: 2161-7635



Journal Editorial Board

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

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

Editor-in-Chief

Prof. Bing Zhou

Department of Mathematics, Trent University, Canada

Associate Editors-in-Chief

Dr. Azer Akhmedov

Department of Mathematics, North Dakota State University, USA

Prof. Viorel Nitica

Department of Mathematics, West Chester University, USA

Editorial Board

Prof. Octavian Agratini

Babes-Bolyai University, Romania

Dr. Tiru Arthanari

University of Auckland, New Zealand

Dr. Ibrahim Büyükyazici

Ankara University, Turkey

Dr. Ardeshir Dolati

Shahed University, Iran

Prof. Amr Elmasry

Alexandria University, Egypt

Prof. Juan Luis García Guirao

Universidad Politécnica de Cartagena, Spain

Prof. Tian-Xiao He

Illinois Wesleyan University, USA

Prof. Pawel Hitczenko

Drexel University, USA

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

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

Dr. Kexiang Xu

Nanjing University of Aeronautics and Astronautics, China

Prof. Qinglin Roger Yu

Thompson Rivers University, USA

Prof. Xiaodong Zhang

Shanghai Jiao Tong University, China

Table of Contents

Volume 7 Number 3

July 2017

On Functions of K-Balanced Matroids

T. Al-Hawary.....103

Dislocated Soft Metric Space with Soft Fixed Point Theorems

B. R. Wadkar, V. N. Mishra, R. Bhardwaj, B. Singh.....108

The Number of Maximal Independent Sets in Quasi-Tree Graphs and Quasi-Forest Graphs

J.-J. Lin, M.-J. Jou.....134

Discrete Differential Geometry and the Structural Study of Protein Complexes

N. Morikawa.....148

The Tilings of Deficient Squares by Ribbon L -Tetrominoes Are Diagonally Cracked

V. Nitica.....165

Graphs with k -Role Assignments

Y. N. Liu, Y. Q. Zhao.....177

Open Journal of Discrete Mathematics (OJDM)

Journal Information

SUBSCRIPTIONS

The *Open Journal of Discrete Mathematics* (Online at Scientific Research Publishing, 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

SERVICES

Advertisements

Advertisement Sales Department, E-mail: service@scirp.org

Reprints (minimum quantity 100 copies)

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

E-mail: sub@scirp.org

COPYRIGHT

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

Copyright © 2017 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 © 2017 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.

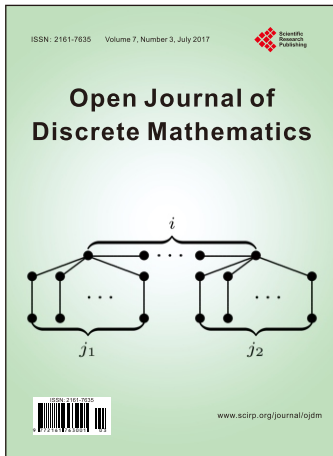
Disclaimer of liability

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



Call for Papers

Open Journal of Discrete Mathematics

ISSN: 2161-7635 (Print) ISSN: 2161-7643 (Online)
<http://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

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

E-mail: 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



Website: <http://www.scirp.org>

Subscription: sub@scirp.org

Advertisement: service@scirp.org