

Journal Editorial Board

ISSN Print: 2152-7385 ISSN Online: 2152-7393

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

Editorial Board

Dr. Hijaz Ahmad	International Telematic University Uninettuno, Italy
Prof. Ali Akgül	Siirt University, Türkiye
Prof. Omar Abu Arqub	Al-Balqa Applied University, Jordan
Prof. Tamer Basar	University of Illinois at Urbana-Champaign, USA
Prof. Leva A. Beklaryan	Russian Academy of Sciences, Russia
Dr. Aziz Belmiloudi	Institut National des Sciences Appliquees de Rennes, France
Dr. Anjan Biswas	Alabama A&M University, USA
Prof. Zhenhua Chai	Huazhong University of Science and Technology, China
Prof. Amares Chattopadhyay	Indian School of Mines, India
Prof. Badong Chen	Xi'an Jiaotong University, China
Prof. Jose Alberto Cuminato	University of Sao Paulo, Spain
Prof. Konstantin Dyakonov	University of Barcelona, Spain
Prof. Rosa Ferrentino	University of Salerno, Italy
Prof. Elena Guardo	University of Catania, Italy
Prof. Anwar H. Joarder	University of Liberals Arts Bangladesh (ULAB), Bangladesh
Prof. Palle Jorgensen	University of Iowa, USA
Dr. Subhas Khajanchi	Presidency University, India
Prof. Adem Kilicman	University Putra Malaysia, Malaysia
Dr. Vladimir A. Kuznetsov	Bioinformatics Institute, Singapore
Prof. Kil Hyun Kwon	Korea Advanced Institute of Science and Technology, South Korea
Prof. Hong-Jian Lai	West Virginia University, USA
Dr. Goran Lesaja	Georgia Southern University, USA
Prof. Tao Luo	Georgetown University, USA
Prof. Hari M. Srivastava	University of Victoria, Canada
Prof. Addolorata Marasco	University of Naples Federico II, Italy
Prof. Gradimir V. Milovanović	Serbian Academy of Sciences and Arts (SASA), Serbia
Dr. Sankar Prasad Mondal	Maulana Abul Kalam Azad University of Technology, India
Prof. María A. Navascués	University of Zaragoza, Spain
Dr. Kolade Matthew Owolabi	Federal University of Technology, Nigeria
Prof. Anatolij Prykarpatski	AGH University of Science and Technology, Poland
Prof. Alexander S. Rabinowitch	Moscow State University, Russia
Prof. Mohammad Mehdi Rashidi	Tongji University, China
Prof. Yuriy V. Rogovchenko	University of Agder, Norway
Prof. Marianna Ruggieri	University of Enna "KORE", Italy
Prof. Ram Shanmugam	Texas State University, USA
Dr. Epaminondas Sidiropoulos	Aristotle University of Thessaloniki, Greece
Prof. Jacob Sturm	Rutgers University, USA
Prof. Mikhail Sumin	Nizhnii Novgorod State University, Russia
Prof. Cemil Tunç	Van Yuzuncu Yil University, Türkiye
Prof. Mustafa Turkyilmazoglu	University of Hacettepe, Türkiye
Dr. Wei Wei	Xi'an University of Technology, China
Dr. Mehmet Yavuz	Necmettin Erbakan University, Türkiye
Dr. Wen Zhang	Icahn School of Medicine at Mount Sinai, USA
Prof. Alexey Zhirabok	Far Eastern Federal University, Russia

Table of Contents

Volume 15 Number 9

September 2024

**Approximating the Radial Distribution Function of the Electron in a Hydrogen Atom
by a Normal Distribution Suggests That Magnetic Confinement Fusion Would Be Less
Energy Efficient than Inertial Confinement Fusion**

M. Osaka585

Stochastic Model of Dengue: Analysing the Probability of Extinction and LLN

R. Sawadogo, F. V. Konané, W. Baguian594

Representation of an Integer by a Quadratic Form through the Cornacchia Algorithm

M. D. Woba.....614

**On Performance Characteristics of a Nonparametric Subset Selection Procedure
with a Small Randomized Block Experimental Design**

G. C. McDonald, S. Alsaeed630

Second-Order Formulas in Action

Y. Movsisyan.....651

Applied Mathematics (AM) Journal Information

SUBSCRIPTIONS

The *Applied Mathematics* (Online at Scientific Research Publishing, <https://www.scirp.org/>) is published monthly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$89 per copy.

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 © 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.

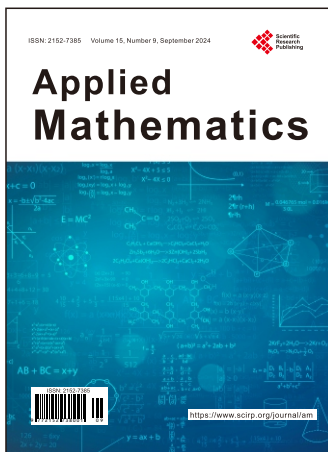
Disclaimer of liability

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: am@scirp.org



Applied Mathematics (AM)

ISSN Print: 2152-7385 ISSN Online: 2152-7393
<https://www.scirp.org/journal/am>

Applied Mathematics (AM) is an international journal dedicated to the latest advancements in applied 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 applied mathematics.

Subject Coverage

All manuscripts must be prepared in English, and are subject to a rigorous and fair 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:

- Applied Probability
- Applied Statistics
- Approximation Theory
- Chaos Theory
- Combinatorics
- Complexity Theory
- Computability Theory
- Computational Methods in Mechanics and Physics
- Continuum Mechanics
- Control Theory
- Cryptography
- Discrete Geometry
- Dynamical Systems
- Elastodynamics
- Evolutionary Computation
- Financial Mathematics
- Fuzzy Logic
- Game Theory
- Graph Theory
- Information Theory
- Inverse Problems
- Linear Programming
- Mathematical Biology
- Mathematical Chemistry
- Mathematical Economics
- Mathematical Physics
- Mathematical Psychology
- Mathematical Sociology
- Matrix Computations
- Neural Networks
- Nonlinear Processes in Physics
- Numerical Analysis
- Operations Research
- Optimal Control
- Optimization
- Ordinary Differential Equations
- Partial Differential Equations
- Probability Theory
- Statistical Finance
- Stochastic Processes
- Theoretical Statistics

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/am> E-mail: am@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**

**Website: <https://www.scirp.org>
Subscription: sub@scirp.org
Advertisement: service@scirp.org**