Journal Editorial Board

ISSN Print: 2152-7385    ISSN Online: 2152-7393
http://www.scirp.org/journal/am

Editor-in-Chief
Prof. Chris Cannings    University of Sheffield, UK

Editorial Board
Prof. Tamer Başar    University of Illinois at Urbana-Champaign, USA
Prof. Leva A. Beklaryan    Russian Academy of Sciences, Russia
Dr. Aziz Belmiloudi    Institut National des Sciences Appliquées de Rennes, France
Dr. Anjan Biswas    Delaware State University, USA
Prof. Mark Broom    City University, UK
Prof. Amares Chattopadhyay    Indian School of Mines, India
Prof. Badong Chen    Xi’an Jiaotong University, China
Prof. Ljubomir Ciric    University of Belgrade, Serbia
Prof. Jose Alberto Cuminato    University of Sao Paulo, Spain
Prof. Konstantin Dyakonov    University of Barcelona, Spain
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. 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. Addolorata Marasco    University of Naples Federico II, Italy
Prof. Maríia A. Navascués    University of Zaragoza, Spain
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. Ram Shanmugam    Texas State University, USA
Dr. Epaminondas Sidiropoulos    Aristotle University of Thessaloniki, Greece
Prof. Sergei Silvestrov    Mälardalen University, Sweden
Prof. Hari M. Srivastava    University of Victoria, Canada
Prof. Jacob Sturm    Rutgers University, USA
Prof. Mikhail Sumin    Nizhnii Novgorod State University, Russia
Dr. Wei Wei    Xi’an University of Technology, China
Dr. Wen Zhang    Icahn School of Medicine at Mount Sinai, USA
Table of Contents

Volume 8   Number 11   November 2017

Lindblad Equation for Harmonic Oscillator: Uncertainty Relation Depending on Temperature
B. V. Bondarev ................................................................. 1529

Painlevé Analysis for (2 + 1) Dimensional Non-Linear Schrödinger Equation
M. Iqbal, Y. F. Zhang ................................................................. 1539

A Mathematical Approach Based on the Homotopy Analysis Method: Application to Solve the Nonlinear Harry-Dym (HD) Equation
E. Khoshrouye Ghiasi, R. Saleh ................................................................. 1546

The Use of Fourier Descriptors for the Classification and Analysis of Peripheral Blood Smears Image
R. Tomakova, V. Komkov, E. Emelianov, M. Tomakov ................................................................. 1563

Assessing Relative Dispersion
T. C. Redd, A. El Moghraby, T. J. Tillman ................................................................. 1572

On the Coalitional Rationality and the Inverse Problem for Shapley Value and the Semivalues
I. Dragan ................................................................. 1590

Stability Analysis of a Neurocontroller with Kalman Estimator for the Inverted Pendulum Case
J. Pucheta, C. Rodríguez Rivero, C. Salas, M. Herrera, S. Laboret ................................................................. 1602

Subprime Mortgage Crisis and the Exchange Rate Channel: Evidence from Six Countries of the Zone Euro-Med
A. Hachicha, F. Hachicha ................................................................. 1619

On the Advertising of an Event: A Mathematical Approach
R. Ferrentino, C. Boniello ................................................................. 1648

Complete Convergence of Weighted Sums for Asymptotically Almost Negatively Associated Sequences
J. An ................................................................. 1662

Statistical Analysis of a Competing Risks Model with Weibull Sub-Distributions
A. M. Sarhan, A. I. El-Gohary, A. H. Tolba ................................................................. 1671
Analysis of 48 US Industry Portfolios with a New Fama-French 5-Factor Model

L. L. Li, X. Rao, W. T. Zhou, B. Mizrach

Multiple Solutions to the Problem of Kirchhoff Type Involving the Critical Caffareli-Kohn-Niremberg Exponent, Concave Term and Sign-Changing Weights

M. E. O. El Mokhtar

Fractionalization of a Class of Semi-Linear Differential Equations

I. K. C. Leung, K. Gopalsamy
Applied Mathematics (AM)

Journal Information

SUBSCRIPTIONS


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)
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: am@scirp.org
Applied Mathematics (AM) is an international journal dedicated to the latest advancement of 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

http://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

Website: http://www.scirp.org
Subscription: sub@scirp.org
Advertisement: service@scirp.org