Journal Editorial Board

ISSN 2160-0368 (Print)  ISSN 2160-0384 (Online)
http://www.scirp.org/journal/apm

Editor-in-Chief
Prof. De-Xing Kong  Zhejiang University, China

Editorial Board
Dr. Taher S. H. Abdelmonem  Mansoura University, Egypt
Dr. Adel Ahmed Atiya  University of Mansoura, Egypt
Prof. Kamal Bahanpour  Islamic Azad University–Ardabil Branch, Iran
Prof. Józef Banas  Bronislaw Markiewicz State School of Higher
                  Vocational Education in Jaroslaw, Poland
Prof. Constantin Buse  West University of Timisoara, Romania
Prof. Sumit Chandok  Punjab Technical University, India
Prof. Muhammad A. Chaudhry  King Fahd University of Petroleum and Minerals, Saudi Arabia
Prof. Pantelis A. Damianou  University of Cyprus, Cyprus
Prof. Dragan S. Djordjevic  University of Nis, Serbia
Prof. Ahmed M. A. El-Sayed  Alexandria University, Egypt
Prof. Marisa Fernandez  Universidad del País Vasco, Spain
Prof. Cristescu Gabriela  Aurel Vlaicu University of Arad, Romania
Prof. Hong-Ya Gao  Hebei University, China
Prof. Aleksander Grytczuk  University of Zielona Góra and Jan Pawel II Western, Poland
Prof. Yuxia Guo  Tsinghua University, China
Prof. Sevdzhan Hakkaev  University of Kansas, Lawrence, USA
Dr. Chengchun Hao  Chinese Academy of Sciences, China
Prof. Tian-Xiao He  Illinois Wesleyan University, USA
Prof. Wei He  Nanjing Normal University, China
Prof. Ting-Zhu Huang  University of Electronic Science & Technology of China, China
Prof. Shuichi Izumiya  Hokkaido University, Japan
Prof. Toshitake Kohno  The University of Tokyo, Japan
Prof. Vichian Laohakosol  Kasetsart University, Thailand
Dr. Jingjing Ma  University of Houston-Clear Lake, USA
Prof. Elimhan N. Mahmudov  Istanbul Technical University, Turkey
Prof. Ming Mei  McGill University, Canada
Prof. Reh. nat. Mara D. Neusel  Texas Tech University, USA
Dr. Marek Niezgoda  University of Life Sciences in Lublin, Poland
Dr. Jyotindra C. Prajapati  Charutar University of Science and Technology, India
Dr. Marius Rădulescu  Institute of Mathematical Statistics and Applied Mathematics
                  “Gheorghe Mihoc-Caius Iacob” of the Romanian Academy, Bucharest, Romania
Prof. Jingli Ren  Zhengzhou University, China
Prof. Bayram Sahin  Inonu University, Turkey
Dr. Samir H. Saker  Mansoura University, Egypt
Prof. Yongli Song  Tunis College of Sciences and Techniques, Tunisia
Prof. Yeong-Jeu Sun  I-Shou University, Chinese Taipei
Dr. Néstor Thome  Universidad Politécnica de Valencia, Spain
Prof. Aydin Tiryaki  Izmir University, Turkey
Prof. Gabor Toth  Eötvös Loránd University, Hungary
Dr. Amitabha Tripathi  Indian Institute of Technology, India
Prof. Nodar Vakhania  Georgian Academy of Sciences, Mexico
Prof. Jose C. Valverde  University of Castilla-La Mancha, Spain
Prof. Mingxin Wang  Harbin Institute of Technology, China
Prof. Qing-Wen Wang  Shanghai University, China
Dr. Yanjun Wang  Institute of Applied Physics and Computational Mathematics, China
Prof. Anthony Ross Weston  Canisius College, USA
Dr. Jasang Yoon  The University of Texas-Pan American, USA
Prof. Norio Yoshida  University of Toyama, Japan
Prof. Mohamed F. Yousif  The Ohio State University, USA
Dr. Shijun Zheng  Georgia Southern University, USA
Prof. Changjiang Zhu  Huazhong Normal University, China
TABLE OF CONTENTS

Volume 3  Number 6  September 2013

Nemytskii Operator in the Space of Set-Valued Functions of Bounded $\varphi$-Variation
W. Aziz........................................................................................................................................563

The Equivalence of Certain Norms on the Heisenberg Group
M. E. Egwe..................................................................................................................................576

A Construction That Produces Wallis-Type Formulas
J. M. Fitzhugh, D. L. Farnsworth..........................................................579

Estimates for Holomorphic Functions with Values in $\mathbb{C}\setminus\{0,1\}$
P. V. Dovbush..................................................................................................................586

A Modified Wallman Method of Compactification
H. J. Wu, W.-H. Wu........................................................................................................590

Optimality of Distributed Control for $n \times n$ Hyperbolic Systems with an Infinite Number of Variables
A. H. Qamlo................................................................................................................598

The figure on the front cover is from the article published in Advances in Pure Mathematics, 2013, Vol. 3, No. 6, pp. 579-585 by Joshua M. Fitzhugh and David L. Farnsworth.
Advances in Pure Mathematics (APM)

Journal Information

SUBSCRIPTIONS


Subscription rates:
Print: $59 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)
E-mail: sub@scirp.org

COPYRIGHT

Copyright©2013 Scientific Research Publishing, Inc.
All Rights Reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, scanning or otherwise, except as described below, without the permission in writing of the Publisher.

Copying of articles is not permitted except for personal and internal use, to the extent permitted by national copyright law, or under the terms of a license issued by the national Reproduction Rights Organization.

Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

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 assumes 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: apm@scirp.org
Advances in Pure Mathematics (APM) is an international journal dedicated to the latest advancement of ordered algebraic structures. 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 ordered algebraic structures.

Subject Coverage

This journal invites original research and review papers that address the following issues. Topics of interest include, but are not limited to:

- Applied Harmonic Analysis
- Approximation Theory
- Asymptotic Methods
- Bifurcation Theory
- Coding Theory
- Combinatorics
- Complex Analysis
- Convex Analysis
- Difference Equations
- Differential Equations
- Dynamical Systems
- Fixed-Point Theory
- Fourier Analysis
- Fractals
- Fractional Analysis
- Functional Differential Equations
- Fuzzy Mathematics
- Geometry
- Geometry of Banach Spaces
- Integral Equations
- Mathematical Biology, including Population Dynamics
- Mathematical Physics
- Matrix Theory
- Moment Theory
- Number Theory
- Numerical Analysis
- Operator Theory
- Optimal Control
- Optimization Wavelets
- Partial Differential Equations
- Probability
- Reaction-Diffusion Problems, Discrete Mathematics
- Scattering Theory
- Semigroups of Operators
- Signal Theory
- Special Functions
- Statistics
- Stochastic Process
- Topology and Applications
- Transport Theory
- Ultrametric Analysis
- Variational Methods

We are also interested in short papers (letters) that clearly address a specific problem, and short survey or position papers that sketch the results or problems on a specific topic. Authors of selected short papers would be invited to write a regular paper on the same topic for future issues of the APM.

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/apm  E-mail: apm@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, by delivering superior scientific publications and scientific information solution provider that enable advancement in scientific research.

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, world-wide, 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