

ISSN: 2160-0368 Vol.1, No.1, January 2011



Scientific
Research

Advances in Pure Mathematics



www.scirp.org/journal/apm

Journal Editorial Board

ISSN 2160-0368 (Print) ISSN 2160-0384 (Online)

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

Editor in Chief

Prof. Juan de dios Pérez Jiménez Universidad de Granada, Spain

Editorial Board

Dr. Taher Salah Hassan Abdelmonem	Mansoura University, Egypt
Dr. Adel Ahmed Attiya	University of Mansoura, Egypt
Prof. Kamal Bahmanpour	Islamic Azad University-Ardabil Branch, Iran
Prof. Józef Banaś	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 Aslam 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 Mohamed Ahmed El-Sayed	Alexandria University, Egypt
Prof. Marisa Fernandez	Universidad del Pais 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 Higher School of Commerce and International Finance in Zielona Góra, Poland
Prof. Sevdzhan Hakkaev	Faculty of Mathematics and Informatics Shumen University, USA
Prof. Yuxia Guo	Tsinghua University, China
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. De-Xing Kong	Zhejiang University, China
Prof. Vichian Laohakosol	Kasetsart University, Thailand
Dr. Jingjing Ma	University of Houston-Clear Lake, USA
Prof. Elimhan N. Mahmudov	Istanbul Technical University, Turkey
Dr. Frantisek Marko	The Pennsylvania State University, USA
Prof. Ming Mei	McGill University, Canada
Prof. Rer. nat. Mara D. Neusel	Texas Tech University, USA
Dr. Marek Niezgoda	University of Life Sciences, Poland
Dr. Jyotindra Chandrasinh Prajapati	Charotar University of Science and Technology, India
Dr. Marius Rădulescu	Gheorghe Mihoc-Caius Iacob, Romania
Prof. Jingli Ren	Zhengzhou University, China
Prof. Bayram Sahin	Inonu University, Turkey
Prof. Samir H. Saker	Mansoura University, Egypt
Prof. Bessem Samet	Tunis College of Sciences and Techniques, Tunisia
Prof. Zhi-Qiang Shao	Fuzhou University, China
Prof. Yongli Song	Tongji University, China
Prof. Yeong-Jeu Sun	I-Shou University, Taiwan (China)
Dr. Néstor Thome	Universidad Politécnica de Valencia, Spain
Prof. Kenan Tas	Cankaya University, Turkey
Prof. Aydin Tiryaki	Izmir University, Turkey
Dr. Amitabha Tripathi	Indian Institute of Technology, India
Prof. Nodari Vakhania	Georgian Academy of Sciences, Mexico
Prof. Mingxin Wang	Harbin Institute of Technology, China
Prof. Qing-Wen Wang	Shanghai University, China
Dr. Yanjin Wang	Institute of Applied Physics and Computational Mathematics, China
Prof. Anthony Ross Weston	Canisius College, USA
Prof. Jie Xiao	Memorial University of Newfoundland, Canada
Dr. Jasang Yoon	The University of Texas-Pan American, USA
Prof. Norio Yoshida	University of Toyama, Japan
Prof. Hong-Kun Zhang	University of Massachusetts, USA
Dr. Shijun Zheng	Georgia Southern University, USA
Prof. Changjiang Zhu	Huazhong Normal University, China

Editorial Assistant

Yana Yi Scientific Research Publishing, USA

TABLE OF CONTENTS

Volume 1 Number 1

January 2011

First Note on the Definition of S_2 -Convexity

I. M. R. Pinheiro.....1

New Solutions to Nonlinear Ordinary Differential Equations

M. Alghalith.....3

Advances in Pure Mathematics (APM)

Journal Information

SUBSCRIPTIONS

The *Advances in Pure Mathematics* (Online at Scientific Research Publishing, www.SciRP.org) is published bimonthly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$39 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©2011 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.

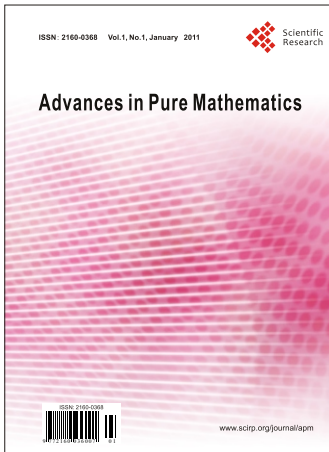
Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

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 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: apm@scirp.org



Advances in Pure Mathematics (APM)

ISSN 2160-0368 (Print) ISSN 2160-0384 (Online)

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

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