

# **Computational Mathematics and Applications Conference**

**(CMA 2014)**

**And the Conference on New Advances in Condensed  
Matter Physics (NACMP 2014)**

**Journal of Applied Mathematics and Physics Volume 2, Number 1**

**Shenzhen, China  
14 – 16 January 2014**

**ISBN: 978-1-63266-772-4**

**Printed from e-media with permission by:**

Curran Associates, Inc.  
57 Morehouse Lane  
Red Hook, NY 12571



**Some format issues inherent in the e-media version may also appear in this print version.**

Copyright© (2014) by the Scientific Research Publishing Inc.  
All rights reserved.

Printed by Curran Associates, Inc. (2014)

For permission requests, please contact the Scientific Research Publishing Inc.  
at the address below.

Scientific Research Publishing Inc.  
P.O. Box 54821  
Irvine, CA 92619-4821

Phone: (408) 329-4591

bookorder@scirp.org

**Additional copies of this publication are available from:**

Curran Associates, Inc.  
57 Morehouse Lane  
Red Hook, NY 12571 USA  
Phone: 845-758-0400  
Fax: 845-758-2634  
Email: curran@proceedings.com  
Web: www.proceedings.com

## TABLE OF CONTENTS

Volume 2 Number 1

January 2014

### Higher-Order Numeric Solutions for Nonlinear Systems Based on the Modified Decomposition Method

J. S. Duan.....1

### Numerical Solution to Boundary Layer Problems over Moving Flat Plate in Non-Newtonian Media

G. Bognár, Z. Csáti.....8

### Mathematical Model for the Homogenization of Unit Load Formation

B. Illés, G. Bognár.....14

### Approximative Method of Fixed Point for $\Phi$ -Pseudocontractive Operator and an Application to Equation with Accretive Operator

Y. X. Wen, A. F. Feng, Y. G. Xu.....21

### Analytical Approach to Differential Equations with Piecewise Continuous Arguments via Modified Piecewise Variational Iteration Method

Q. Wang.....26

### Probabilistic Approach to the Asynchronous Iteration

A. S. Rasulov, M. T. Bakoev, D. R. Akabirhodjaeva.....32

### Electronic Modeling and Optical Properties of $\text{CuIn}_{0.5}\text{Ga}_{0.5}\text{Se}_2$ Thin Film Solar Cell

R. Z. Chen, C. Persson.....41

### Propagation of Electromagnetic Wave through Anisotropic Graded Refractive Index Profile

A. Abramov, L. Luan.....47

---

The figure on the front cover is from the article published in Journal of Applied Mathematics and Physics, 2013, Vol. 2, No. 1, pp. 1-7 by Junsheng Duan.