



ISSN: 1749-3889 ( print )  
1749-3897 (online)

**Bimonthly**

Vol.12 (2011) No. 2  
October

England, UK  
www.NonlinearScience.org.uk  
editor@NonlinearScience.org.uk

# *International Journal of* **Nonlinear Science**

Edited by *International Committee for Nonlinear Science, WAU*  
Published by *World Academic Union (World Academic Press)*

## **CONTENTS**

- 131. Numerical Simulations of Nonlinear Evolution Equations in Mathematical Physics**  
*M A Abdou, A A Soliman*
- 140. Estimation of Viscosity and Controller Strengthening in Boundary Stabilization of Korteweg-de Vries-Burgers' Equation**  
*Jingfeng Wang*
- 147. Solving (2 + 1) -Dimensional Davey- Stewartson Equation by (G'/G) Expansion Method**  
*MingXing Zhu, Li Wu, ChuChu Yin, MingYuan Zhang*
- 151. Some Families of Meromorphic Functions with Positive Coefficients Defined by Dziok-Srivastava Operator**  
*T.Rosy, K. Muthunagai, G.Murugusundaramoorthy*
- 162. An analytic study for a Family of Nonlinear Diffusion Equations of the Fisher Type**  
*Yinghui Zhang, Huixu Li, Demin Yu, Zhengsu Wan*
- 169. Weak and Strong Convergence Theorems for Finite Family of Nonself Asymptotically Nonexpansive Mappings in Banach Space**  
*Li Wu*
- 184. Solution of Non-linear Sixth-order Two Point Boundary-value Problems Using Parametric Septic Splines**  
*Arshad Khan, Pooja Khandelwal*
- 196. Hybrid Extended Backward Differentiation Formulas for Stiff Systems**  
*Ali K. Ezzeddine, Gholamreza Hojjati*
- 205. RETRACTED: Homotopy Perturbation Method based on Orthogonal Polynomials**  
*S. R. Fayyaz Behrooz, Ghodrati Ebadi*
- 214. Global Solutions and Blow-up Profiles for a Nonlinear Degenerate Parabolic Equation with Nonlocal Source**  
*Guangsheng Zhong*
- 227. Dynamic Analysis of a Fractional Order Rössler System**  
*Zhixin Cheng*
- 236. On the Cauchy Problem for the Generalized Weak Dissipative Camassa-Holm Equation**  
*Wenxia Chen, Jianmei Zhang, Xiaoyan Deng*
- 245. Impulsive Partial Neutral Functional Differential Equation of Second-order with Infinite Delay**  
*Runping Ye*

## International Journal of Nonlinear Science (IJNS)

### Bibliographic

**ISSN:** 1749-3889 (print), 1749-3897 (online), *Bimonthly*

**Edited** by International Editorial Committee of Nonlinear Science, WAU

**Published** by World Academic Union (World Academic Press)

**Publisher Contact:** Academic House, 113 Mill Lane  
Wavertree Technology Park, Liverpool L13 4AH, England, UK  
Email: publishing@wau.org.uk, publishing@WorldAcademicUnion.com  
URL: [www. World Academic Union .com](http://www.WorldAcademicUnion.com)

### Contribution enquiries and submitting

The paper(s) could be submitted to the managing editor [editor@NonlinearScience.org.uk](mailto:editor@NonlinearScience.org.uk). Author also can contact our editorial offices by mail or email at addresses below directly.

For more detail to submit papers please visit [www.NonlinearScience.org.uk](http://www.NonlinearScience.org.uk)

### Editorial Board

**Editor in Chief:** *Boling Guo*, Institute of Applied Physics and Computational Mathematics, Beijing, 100088, China;  
[IJNS@ujs.edu.cn](mailto:IJNS@ujs.edu.cn)

**Co-Editor in Chief:** *Lixin Tian*, Nonlinear Scientific Research Center, Faculty of Science, Jiangsu University, Zhenjiang, Jiangsu, 212013; China; [tianlx@ujs.edu.cn](mailto:tianlx@ujs.edu.cn), [IJNS@ujs.edu.cn](mailto:IJNS@ujs.edu.cn)

### Standing Members of Editorial Board:

**Ghasem Alizahdeh Afrouzi**, Department of Mathematics, Faculty of Basic Sciences, Mazandaran University, Babolsar, Iran; [afrouzi@umz.ac.ir](mailto:afrouzi@umz.ac.ir)

**Stephen Anco**, Department of Mathematics, Brock University, 500 Glenridge Avenue St. Catharines, ON L2S 3A1, Canada ;[sanco@brocku.ca](mailto:sanco@brocku.ca)

**Adrian Constantin**, Department of Mathematics, Lund University, 22100 Lund, [adrian@maths.lth.se](mailto:adrian@maths.lth.se) Sweden;[adrian.constantin@math.lu.se](mailto:adrian.constantin@math.lu.se) ,

**Ying Fan**, Department of Management Science, Institute of Policy and Management, Chinese Academy of Sciences, Beijing 100080, China, [yfan@casipm.ac.cn](mailto:yfan@casipm.ac.cn).

**Juergen Garloff**, University of Applied Sciences/ HTWG Konstanz, Faculty of Computer Science, Postfach 100543, D-78405 Konstanz, Germany; [garloff@htwg-konstanz.de](mailto:garloff@htwg-konstanz.de)

**Tasawar Hayat**, Department of mathematics, Quaid-I-Azam University, Pakistan, [pensy\\_t@yahoo.com](mailto:pensy_t@yahoo.com)

**Yong Jiang**, William Lee Innovation Center, University of Manchester, Manchester, M60 1QD UK; [jianguk@hotmail.com](mailto:jianguk@hotmail.com)

**Zhujun Jing**, Institute of Mathematics, Academy of Mathematics and Systems Sciences, Chinese Academy of Science, Beijing, 100080, China; [jingzj@math03.math.ac.cn](mailto:jingzj@math03.math.ac.cn)

**Yue Liu**, Department of Mathematics, University of Texas, Arlington, TX 76019, USA; [yliu@uta.edu](mailto:yliu@uta.edu)

**Zengrong Liu**, Department of Mathematics, Shanghai University, Shanghai, 201800, China; [Zrongliu@online.sh.cn](mailto:Zrongliu@online.sh.cn)

**Norio Okada**, Disaster Prevention Research Institute, Kyoto University , [n\\_okada@drs.dpri.kyoto-u.ac.jp](mailto:n_okada@drs.dpri.kyoto-u.ac.jp)

**Jacques Peyriere**, Université Paris-Sud, Mathématique, b â t. 42591405 ORSAY Cedex , France; [Jacques.Peyriere@free.fr](mailto:Jacques.Peyriere@free.fr), [Jacques.Peyriere@math.u-psud.fr](mailto:Jacques.Peyriere@math.u-psud.fr)

**Weiyi Su**, Department of Mathematics, Nanjing University, Nanjing, Jiangsu, 210093, China; [suqiu@nju.edu.cn](mailto:suqiu@nju.edu.cn)

**Konstantina Trivisa**, Department of Mathematics, University of Maryland College Park, MD20472-4015, USA; [trivisa@math.umd.edu](mailto:trivisa@math.umd.edu)

**Yaguang Wang**, Department of Mathematics, Shanghai Jiao Tong University, Shanghai, 200240, China; [ygwang@sjtu.edu.cn](mailto:ygwang@sjtu.edu.cn)

**Yiming Wei**, Institute of Policy and management, Chinese Academy of Science, Beijing, 100080, China; [ymwei@mail.casipm.ac.cn](mailto:ymwei@mail.casipm.ac.cn)

**Zhiying Wen**, Department of Mathematics, Tsinghua University, Beijing, 100084, China; [wenzzy@mail.tsinghua.edu.cn](mailto:wenzzy@mail.tsinghua.edu.cn)

**Lifeng Xi**, Institute of Mathematics, Zhejiang Wanli University, Ningbo 315100, China; [xilf@zww.edu.cn](mailto:xilf@zww.edu.cn)

**Zhenyuan Xu**, Faculty of Science, Southern Yangtze University, Wuxi , Jiangsu 214063 , China; [Xu\\_zhenyuan@yahoo.com](mailto:Xu_zhenyuan@yahoo.com)

**Huicheng Yin**, Department of Mathematics, Nanjing University, Nanjing, Jiangsu, 210093, China; [huicheng@nju.edu.cn](mailto:huicheng@nju.edu.cn)

**Pingwen Zhang**, School of Mathematic Sciences, Peking University, Beijing, 100871, China; [pzhang@pku.edu.cn](mailto:pzhang@pku.edu.cn)

**Secretary:** Xuedi Wang, Xinghua Fan

### Editorial office:

Academic House, 113 Mill Lane  
Wavertree Technology Park  
Liverpool L13 4AH, England, UK

### Email:

[china@nonlinearscience.org.uk](mailto:china@nonlinearscience.org.uk)  
[IJNS@ujs.edu.cn](mailto:IJNS@ujs.edu.cn)  
[editor@nonlinearscience.org.uk](mailto:editor@nonlinearscience.org.uk)