WSEAS Transactions on Mathematics

Print ISSN: 1109-2769 E-ISSN: 2224-2880 Contents: 2011

Impact factor according to the citations in Thomson Reuters (ISI Web of Knowledge) for 2014: 0,028

Impact Factor = A/B where: A = the number of citations by Thomson Reuters (ISI Web of Knowledge) in 2014 for the published papers in this journal in 2012 and 2013. B = the total number of papers published by this journal in 2012 and 2013.

Acceptance Rate (for the years 2013 and 2014): 29.20%

Acceptance Rate = C/D where: C = the number of accepted papers, D= the number of submitted papers. Withdrawn Papers are not considered for the numbers C and D.

Editorial Board:

Editor-in-Chief

Professor Gen Qi Xu Department of Mathematics, Tianjin University, Tianjin, CHINA

Associate Editors:

Functional Analysis, Linear Algebra and Applications
Ji Gao
Professor of Mathematics Department
Community College of Philadelphia
1700 Spring Garden Street
Philadelphia, PA 19130-3991
USA
http://faculty.ccp.edu/faculty/jgao
jgao@ccp.edu

Differential Equations: Theory and Applications
Elsayed M. E. Zayed
Professor of Mathematics
Mathematics Department
Faculty of Science
Zagazig University
Zagazig, Egypt
Email: e.m.e.zayed@hotmail.com

Computer Mathematics-Education S. P. Yung

Department of Mathematics
The University of Hong Kong
Hong Kong, PRC.
Office Pun Pun Shaw Ridg, Pm

Office: Run Run Shaw Bldg. Rm 415

E-mail: spyung@hku.hk

Distributed Parameter Systems, Infinite-Dimensional Systems Control Theory, Delayed Control Systems, Partial Differential Equations, Financial Mathematics, Optimal Control, Computations of PDEs, Spectral Analysis
Junmin Wang
Professor, Department of Mathematics
Beijing Institute of Technology
Beijing, P. R. China
Email: wangjc@graduate.hku.hk

Mathematics in Physics and Mechanics Prof. Gongnan Xie, Lunds University, Lund, Sweden, also with Northwestern Polytechnical University, Xi'an, Shaanxi, China Email: xgn@nwpu.edu.cn

Topics:

Linear Algebra and Applications Numerical Analysis and Applications Differential Equations and Applications Probabilities, Statistics, Operational Research Optimization and Applications Algorithms, Discrete Mathematics, Systems, Communications, Control

Articles:

<u>Positive Solutions for Singular Third-Order Nonhomogeneous Boundary Value Problems</u> with Nonlocal Boundary Conditions

Authors: Ping Kang

Exponential p-Stability of Impulsive Stochastic Fuzzy Cellular Neural Networks with Mixed Delays

Authors: Qianhong Zhang, Lihui Yang

A General Iterative Algorithm for Equilibrium Problems and Strict Pseudo-Contractions in Hilbert Spaces

Authors: Ming Tian, Lei Liu

Ergodic Theorems with Respect to Lebesgue

Authors: Eleonora Catsigeras

Population Dynamics: A Geometrical Approach of Some Epidemic Models

Authors: M. E. Kahil

Fuzzy Time Series Model Incorporating Predictor Variables and Interval Partition

Authors: Hsien-Lun Wong, Chi-Chen Wang

<u>Generalized Integral Inequalities for Discontinuous Functions with One or Two Independent Variables</u>

Authors: Qinghua Feng, Fanwei Meng

On the Sophie Germain Prime Conjecture

Authors: Fengsui Liu

About the Weak Efficiencies in Vector Optimization

Authors: Cristina Stamate

<u>Dynamic Behavior in a HIV Infection Model for the Delayed Immune Response</u>

Authors: Yongzhao Wang, Dongwei Huang, Shuangde Zhang, Hongjie Liu

Rich Dynamical Behaviors of a Predator-Prey System with State Feedback Control and a General Functional Responses

Authors: Yongzhen Pei, Haiyong Wang

<u>Applied Research on the Coexistence Relationship between Tianjin Port and Inland</u> <u>Transportation System based on Population Ecology Model</u>

Authors: Jun Wang, Junhai Ma

Research on Delayed Complexity Based on Nonlinear Price Game of Insurance Market

Authors: Junling Zhang, Junhai Ma

<u>Kernel-based Weighted Discriminant Analysis with QR Decomposition and Its Application</u> to Face Recognition

Authors: Jianqiang Gao, Liya Fan

Weighted Generalized Kernel Discriminant Analysis Using Fuzzy Memberships

Authors: Jing Yang, Liya Fan

Global Exponential Stability of High-Order BAM Neural Networks with S-type Distributed Delays and Reaction Diffusion Terms

Authors: Chengrong Ma, Fengyan Zhou

Robust Portfolio Selection Problem for an Insurer with Exponential Utility Preference

Authors: Hui Zhao, Ximin Rong, Jiling Cao

<u>Stability Analysis of Periodic Solutions for Stochastic Reaction-Diffusion High-Order Cohen-</u> Grossberg-Type Bam Neural Networks with Delays

Authors: Yunquan Ke, Chunfang Miao

In-situ Combustion Simulation for Heavy Oil Reservoirs

Authors: Rasaq O. Olayiwola, Reuben O. Ayeni

The Consistency Analysis of Coefficient Regularized Classification with Convex Loss

Authors: Sheng Baohuai, Xiang Daohong

A Stability Result for a Generalized Trigonometric-Quadratic Functional Equation with one Unbounded Function

Authors: Charinthip Hengkrawit, Vichian Laohakosol, Janyarak Tongsomporn

The Modified (G'/G)- Expansion Method and its Applications to Construct Exact Solutions for Nonlinear PDEs

Authors: Elsayed M. E. Zayed, Khaled A. Gepreel

Relatively Relaxed Proximal Point Algorithms for Generalized Maximal Monotone Mappings and Douglas-Rachford Splitting Methods

Authors: Ram Verma

<u>Traveling Wave Solutions for Some Nonlinear Evolution Equations by the First Integral</u> Method

Authors: Bin Zheng

<u>Gronwall-Bellman Type Inequalities On Time Scales And Their Applications</u>

Authors: Qinghua Feng, Fanwei Meng

The Asymptotic Behavior of a Doubly Nonlinear Parabolic Equation with a Absorption Term Related to the Gradient

Authors: Huashui Zhan

<u>The Effects of the Change of Bond Insurance Premium and Capital Regulatory Ratio on Loan and Deposit Rates: An Option-Pricing Model</u>

Authors: Shih-Heng Pao, Jyh-Horng Lin, Shu-Hui Chang

<u>Effect of Variable Viscosity on Convective Heat and Mass Transfer by Natural Convection</u> from Horizontal Surface in Porous Medium

Authors: M. B. K. Moorthy, K. Senthilvadivu

<u>Turing Instability for a Two Dimensional Semi-Discrete Oregonator Model</u>

Authors: Li Xu, Guang Zhang, Jun-Feng Ren

An Algebraic Approach to Multidimensional Minimax Location Problems with Chebyshev Distance

Authors: Nikolai Krivulin

<u>Turing Instability and Wave Patterns for a Symmetric Discrete Competitive Lotka-Volterra System</u>

Authors: Yu-Tao Han, Bo Han, Lu Zhang, Li Xu, Mei-Feng Li, Guang Zhang

Spectrum of A Class of Delay Differential Equations and Its Solution Expansion

Authors: Yaxuan Zhang

Almost Runge-Kutta Methods of Orders up to Five

Authors: Abraham Ochoche, Peter Ndajah

<u>Inverse Model to Determine the Optimal Number of Drops of RDC Column Using Fuzzy Approach</u>

Authors: Hafez Ibrahim, Jamalludin Talib, Normah Maan

Michel-Penot Subdifferential and Lagrange Multiplier Rule

Authors: Triloki Nath, S. R. Singh

Spectral Analysis of a Two Unit Deteriorating Standby System with Repair

Authors: Wenzhi Yuan, Genqi Xu

Exact Traveling Wave Solutions of Nonlinear Variable Coefficients Evolution Equations with Forced Terms using the Generalized (G'/G) Expansion Method

Authors: Elsayed Zayed, Mahmoud Abdelaziz

Introduction to the Rectangular Trigonometry in Euclidian 2D-Space

Authors: Claude Bayeh

A Heuristic for the Multi-knapsack Problem

Authors: Jose Grandon, Ivan Derpich

Analysis of a Deteriorating Cold Standby System with Priority

Authors: Lixia Ma, Genqi Xu, Nikos E. Mastorakis

β0-Excellent Graphs

Authors: A. P. Pushpalatha, G. Jothilakshmi, S. Suganthi, V. Swaminathan

A Further Improved (G'/G) - Expansion Method and the Extended Tanh- Method for Finding Exact Solutions of Nonlinear PDEs

Authors: Elsayed M. E. Zayed

<u>Transient Temperature Solutions of a Cylindrical Fin</u>

Authors: G.-C. Kuo, Y.-H. Hu, W.-L. Liaw, K.-J Wang, K.-Y. Kung

Linear Models in Regional and Interregional Modeling

Authors: Bohuslav Sekerka, Robert Bata

Shape of a Drum, a Constructive Approach

Authors: P. N. Shivakumar, Yan Wu, Yang Zhang

A Generalized Volterra-Fredholm Type Integral Inequality for Discontinuous Functions

Authors: Bin Zheng

New Generalized Delay Integral Inequalities on Time Scales

Authors: Bin Zheng