Dynamic Systems and Applications

Volume 22, 2013

CONTENTS

Weipeng Zhang, Lan Yin, and Xianyi Li **1**
Permanence, Global Asymptotic Stability and Almost Periodic Solutions in a Non-Autonomous Predator-Prey System with Hassell-Varley Type Functional Response

Shengfan Zhou and Zhaojuan Wang **15**
Upper-Semicontinuity of Attractors for Reaction-Diffusion Equation and Damped Wave Equation in R^n Perturbed by Small Multiplicative Noises

Lina Ma, Jingxiao Zhang, and D. Kannan **33**
Utility Indifference Pricing of Reverse Mortgage and Associated Insurance Contracts Under Stochastic Interest and Volatility Rates

Lynn Erbe and Taher S. Hassan **49**
New Oscillation Criteria for Second Order Sublinear Dynamic Equations

Haibo Li, G. Yin, and Jun Ye **65**
Asymptotic Stability of Switching Diffusions Having Sub-Exponential Rates of Decay

Yuzhen Bai and Cuixia Guo **95**
New Results on Stability and Boundedness of Third Order Nonlinear Delay Differential Equations

Marek Galewski **105**
Uniqueness of Solutions for Discrete Boundary Value Problems

R. Šimon Hilscher **115**
Oscillation and Spectral Theory of Sturm-Liouville Differential Equations with Nonlinear Dependence in Spectral Parameter

Muhammad I. Mustafa **125**
Large Time Behavior for the Solution of a Delay Heat Equation

Weiyin Fei and Dengfeng Xia **137**
On Solutions to Stochastic Set Differential Equations of Ito Type Under the Non-Lipschitzian Condition

Jing Chen and X. H. Tang **157**
Eigenvalue Criteria on Existence of Nontrivial Solutions for a Class of Fractional Boundary Value Problem

Lei Wang, Xiaodi Li, and Donal O'Regan **171**
Strict Stability of Impulsive Functional Differential Equations with Infinite Delays

Gabriele Bonanno, Petru Jebelean, and C Alin Şerban **183**
Three Solutions for Discrete Anisotropic Periodic and Neumann Problems

Jürgen Appell and Nelson Merentes **197**
Composing Functions of Bounded Korenblum Variation

Seppo Heikkilä and Erik Talvila **207**
Distributions, Their Primitives and Integrals with Applications to Distributional Differential Equations

Donal O'Regan **251**
Topological Principles via a Connectedness and Compactness Argument

Zhi-Han Zhao, Yong-Kui Chang, and Juan J. Nieto **269**
Square-Mean Asymptotically Almost Automorphic Process and Its Application to Stochastic Integro-Differential Equations

M. E. Filippakis, Donal O'Regan, and N. S. Papageorgiou **285**
Bifurcation Type Results For Nonlinear Eigenvalue Neumann Problems

Józef Banaś and Monika Krajewska **301**
On Solutions of Semilinear Infinite Systems of Differential Equations

B. Ricceri **317**
A New Existence and Localization Theorem for the Dirichlet Problem

Alexandru Kristály, Gheorghe Moroşanu, and Donal O'Regan **325**
A Dimension-Depending Multiplicity Result for a Perturbed Schrödinger Equation

J. Vasundhara Devi, S. G. Deo, and S. Nagamani **337**
On Fractional Trigonometric Functions and Their Generalizations.

Radu Precup **355**
Critical Point Localization Theorems via Ekeland's Variational Principle

Vicenţiu D. Rădulescu **371**
Combined Effects for a Stationary Problem With Indefinite Nonlinearities and Lack of Compactness

Gabriele Bonanno, Dumitru Motreanu, and Patrick Winkert **385**
Boundary Value Problems with Nonsmooth Potential, Constraints and Parameters

P. Candito, S. Carl, and R. Livrea **397**
Variational Versus Pseudomonotone Operator Approach in Parameter-Dependent Nonlinear Elliptic Problems

Gabriele Bonanno and Giuseppina D'aguì **411**
Critical Nonlinearities for Elliptic Dirichlet Problems

Simeon Reich and Alexander J. Zaslavski **419**
Convergence of Inexact Iterates of Nonexpansive Mappings in Metric Spaces

F. A. Mcrae, Z. Drici, and J. Vasundhara Devi **425**
Terminal Value Problems for Caputo Fractional Differential Equations

Tadesse Zerihun and G. S. Ladde **433**
Fundamental Properties of Solutions of Non Linear Stochastic Differential Equations and Method of Variation of Parameters

Lina Ma, Jingxiao Zhang, and D. Kannan **459**
Utility Indifference Pricing of Products Integrating Reverse Mortgage with Long-Term Care Insurance Under a Lévy Process Financial Market

Sowmya Muniswamy and Aghalaya S. Vatsala **479**
Superlinear Convergence for Caputo Fractional Differential Equations with Applications

Nadir Benkaci-Ali, A. Benmezaï, and Johnny Henderson **493**
Positive Solutions for a p(t)-Laplacian Three Point Boundary Value Problem

Joanna Krasinska and Mariusz Michta **503**
A Note on Stochastic Inclusions Approach for Fuzzy Stochastic Differential Equations Driven by Semimartingales

Kexue Zhang and Xinzhi Liu **517**
Nonlinear Boundary Value Problems of First Order Impulsive Integro-differential Equation of Volterra Type on Time Scales

R. P. Agarwal, Martin Bohner, Tongxing Li, and Chenghui Zhang **535**
Oscillation of Second-order Nonlinear Neutral Dynamic Equations

Dumitru Motreanu **543**
Solvability of a Semilinear Anisotropic Hyperbolic Problem

Song Liang **557**
Stochastic Hamiltonian Equation with Uniform Motion Area

Maciej Kozaryn and Mariusz Michta **591**
On Set-valued Stochastic Equations and Stochastic Inclusions Driven by a Brownian Sheet

C. Y. Chan and P. Tragoonsirisak **613**
A Computational Method for the Quenching Time For a Parabolic Problem Due to a Concentrated Nonlinear Source in an Infinite Strip

Chengyan Liu, Xiaodi Li, and Donal O'Regan **621**
Asymptotically Practical Stability of Impulsive Functional Differential Systems in Terms of Two Measurements

Zdzislaw Kamont and Anna Szafrańska **641**
Method of Lines for Hamilton - Jacobi Functional Differential Equations

Content **665**

Author Index **669**