Dynamic Systems and Applications

Volume 26, 2017

CONTENTS

F. Bandele and M. O. Ogundiran **1**
Existence and Asymptotic Stability of an Impulsive Stochastic Differential Equation

Lina Ma, Jingxiao Zhang, and D. Kannan **11**
Pricing an Insurance Product That Integrates Reverse Mortgage with Long-Term Care Insurance

N. G. Medhin and M. Sambandham **37**
Impulsive Control Problem Governed by Fractional Differential Equations and Applications

Martin J. Bohner, Mahmoud M. Osman, and Samir H. Saker **65**
General Higher-Order Dynamic Opial Inequalities With Applications

George A. Anastassiou **81**
Vector Fractional Korovkin Type Approximations

Kenzu Abdella, Glen Ross, and Yasaman Mohseniahouei **105**
Solutions to the Blasius and Sakiadis Problems via a New Sinc-Collocation Approach

Cemil Tunc **121**
Stability and Boundedness in Volterra Integro-Differential Equations with Delay

Marat Akhmet and Aysegul Kivilcim **131**
Vertical and Horizontal Grazing

Zeynep Kayar **147**
An Existence and Uniqueness Result for Linear Sequential Fractional Boundary Value Problems (BVPS) via Lyapunov Type Inequality

Erdal Korkmaz and Cemil Tunc **157**
Inequalities and Exponential Decay of Certain Differential Equations of First Order in Time Varying Delay

N. N. Pelen, A. F. Guvenilir, and Billur Kaymakcalan **167**
Some Results on Predator-prey Dynamic Systems With Beddington-Deangelis Type Functional Response on Time Scale Calculus

Khanlar R. Mamedov and Ozge Akcay **183**
Inverse Problem for a Class of Dirac Operators by the Weyl Function

Malik Muslim, Avadhesh Kumar, and Michal Feckan **197**
Periodic Solutions to Second Order Nonlinear Differential Equations With Non-Instantaneous Impulses

Ravi Agarwal, Donal O'Regan, and Snezhana Hristova **211**
Monotone-Iterative Techniques for Mild Solutions of the Initial Value Problem for Caputo Fractional Differential Equations with Non-Instantaneous Impulses

Jan Andres and Lech Gorniewicz **237**
Implicit Differential Inclusions with Acyclic Right-Hand Sides: An Essential Fixed Points Approach

Martin Bohner, G. Caristi, S. Heidarkhani, and A. Salari **259**
Three Solutions for a Class of Nonhomogeneous Nonlocal Systems: An Orlicz-Sobolev Space Setting

Sehie Park **283**
On Various Multimap Classes in the KKM Theory And Their Applications

Leszek Gasinski and Nikolaos S. Papageorgiou **309**
Pairs of Nontrivial Solutions for Resonant Robin Problems with Indefinite Linear Part

Wataru Takahashi, Ching-Feng Wen, and Jen-Chih Yao **327**
Attractive and Mean Convergence Theorems for Two Commutative Nonlinear Mappings In Banach Spaces

Elena Braverman and Michelle Michelle **347**
Stability of Time-Dependent Dynamic Monopoly With Concentrated and Distributed Delays

D. Averna, G. Bonanno, and E. Tornatore **367**
Gradient Nonlinear Elliptic Systems Driven by a (p,q)-Laplacian Operator

Donal O'Regan **383**
Limit of Inverse Systems and Coincidence Principles In Frechet Space

Anupam Sharma and Mohammad Imdad **395**
Fixed Point Approximation of Generalized Nonexpansive Multi-Valued Mappings in Banach Spaces via New Iterative Algorithms

T. Jabeen, R. P. Agarwal, Donal O'Regan, and V. Lupulescu **411**
Impulsive Functional Differential Equations with Causal Operators

Donal O'Regan **425**
Krasnoselskii Coincidence Type Results for General Classes of Maps

Bapurao C. Dhage and Shyam B. Dhage **435**
Dhage Iteration Method for Generalized Quadratic Fractional Integral Equations with Maxima

Kristina B. Hilton and G. S. Ladde **453**
Stochastic Multicultural Dynamic Networks

Lina Ma, Jingxiao Zhang, and D. Kannan **473**
Fair Pricing of Reverse Mortgage Without Redemption Right

Aboubakary Diakhaby and Youssef Ouknine **499**
Homogenization of BSDEs with Two Reflecting Barriers, Variational Inequality and Stochastic Game

Dongya Cheng and Changjun Yu **517**
Asymptotics for the Ruin Probabilities of a Two-Dimensional Renewal Risk Model

Emmanuel Lepinette and Farshid Mehrdoust **535**
A Fractional Version of the Heston Model with Hurst Parameter $H \in (1/2, 1)$

Donal O'Regan **549**
Topological Structure of the Coincidence Set for Abstract Classes of Maps

Elham Dastranj and Shiva Namazi **563**
Local Risk Minimizing Option in a Regime-Switching Double Heston Model

Shian Wang and N. U. Ahmed **575**
Dynamic Model of Urban Traffic and Optimum Management of its Flow and Congestion

Elisa Sovrano and Fabio Zanolin **589**
The Ambrosetti-Prodi Periodic Problem: Different Routes to Complex Dynamics

Vera Zeidan **627**
Constrained Linear-Quadratic Control Problems Over Time Scales and Weak Normality

Content **663**

Author Index **667**