

Volume 5 Number 2
June 2023

ISSN 2562-2854(print)
ISSN 2562-2862(online)

Journal of Nonlinear Modeling and Analysis

Editors-in-Chief

Maoan Han & Junling Ma



Pacific Edilite Academic Inc. &



Zhejiang Normal University

Journal of Nonlinear Modeling and Analysis

Volume 5, Number 2

June 2023

Contents

- 203 Impact of Correlated Activity and STDP on Network Structure**
Changan Liu and Zhong Dai
- 228 On the Boundary of the Attraction Basin in a Class of Piecewise Linear Systems**
Yuhong Zhang, Weisheng Huang and Xiaosong Yang
- 247 Ground States for Singularly Perturbed Planar Choquard Equation with Critical Exponential Growth**
Limin Zhang, Fangfang Liao, Xianhua Tang and Dongdong Qin
- 272 Conservation Laws and Exact Solutions to the Modified Hyperbolic Geometric Flow**
Fang Gao and Zengui Wang
- 288 Dynamics of Stochastic Ginzburg-Landau Equations Driven by Colored Noise on Thin Domains**
Hong Lu and Mingji Zhang
- 311 A Personnel Selection Problem in Healthcare System Using Fuzzy-TOPSIS Approach**
Salman Khalil, Umar Muhammad Modibbo, Ather Aziz Raina and Irfan Ali
- 325 Traveling Epizootic Waves of a Fox Rabies Model with Small Spatial Diffusion**
Jie Wang, Jin Dong and Jian Wang
- 336 Global Steady State Analytical Solution of Cadmium Uptake Model for Plant Roots**
Wenting Lin, Xin Ning, Jianhe Shen and Zhonghui Ou
- 354 COVID-19 Epidemic Prediction Based on Deep Learning**
Rui Li, Zhihan Zhang and Peng Liu
- 366 Existence and Uniqueness of the Solution for Hilfer Neural Networks with Delays**
Lulu Wang and Yu Tian
- 377 Existence and Uniqueness of Smooth Solution for a Four-waves Coupled System**
Mingyue Lin and Jingjun Zhang
- 394 Dynamics Behavior of a Stochastic Predator-Prey Model with Stage Structure for Predator and Lévy Jumps**
Xiaomei Wu and Sanling Yuan
- 415 Dynamical Behavior of a Stochastic Nutrient-Plankton Food Chain Model with Lévy Jumps**
Zhenzhen Yang and Sanling Yuan