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Some qualitative properties of the discrete models for malaria propagation



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ABSTRACT

This paper addresses a reliable mathematical modeling of malaria propagation in infected societies for humans and mosquitoes with an extension of the basic Ross-Macdonald model. We analyze the extended Ross model numerically which is an initial value problem of a seven-dimensional system of the first-order ODEs, for this aim, the discretized scheme of the extended model is split into two parts. First, we apply the step-size functions to approximate the time derivatives with the first-order consistency. Then we use a nonlocal discretization of the standard 0-method to the right side of the system to obtain a linear system. We find the conditions for the step-size functions under which specific intervals are positively invariant for the total populations and each component of the solution of the extended Ross model. We suggest a step-size function for the extended Ross model to preserve the dynamical consistency of the model for any step size Δt . The numerical simulations confirm the theoretical results for the examples and we compare the efficiency of the monstandard Runge-Kutta methods with the different step-size functions for sufficiently large step sizes.

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1. Introduction

Nowadays that most people are struggling with COVID-19 pandemic throughout the world, there are other types of epidemics that human beings have been dealing with them for ages such as malaria which is an infectious and deadly disease spread to humans as hosts by female Anopheles mosquitoes as vectors. This phenomenon, which is endemic in tropical and subtropical regions appertains greatly to the climate factors such as temperature, altitude, precipitation, and raised humidity. Moreover, global warming and climate change increase this incident. Other various reasons are responsible for the latest malaria upsurge, such as drug resistance, mosquito control programs, public health facilities, and living standards. Nevertheless, since there is no effective vaccine, it is crucial to analyze its mechanism [1,18,22].

Reliable mathematical modeling of epidemics transmission is a key tool for getting a better insight into the disease, prevent them from contagion in the future, and reduce their impacts in the real life. For this aim, a variety of mathematical models have been brought up to interpret malaria transmission, Ronald Ross was a pioneer in this field [21] and his model

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Sabine Zange

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Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1975 **Computational Analysis of** One-dimensional Cellular Automata Burton H. Voorhees, 1996 Cellular automata provide an interesting avenue into the study of complex systems in general as well as having an intrinsic interest of their own Because of their mathematical simplicity and representational robustness they have been used to model economic political biological ecological chemical and physical systems Almost any system which can be treated in terms of a discrete representation space in which the dynamics is based on local interaction rules can be modelled by a cellular automata The aim of this book is to give an introduction to the analysis of cellular automata CA in terms of an approach in which CA rules are viewed as elements of a nonlinear operator algebra which can be expressed in component form much as ordinary vectors are in vector algebra Although a variety of different topics are covered this viewpoint provides the underlying theme The actual mathematics used is not complicated and the material should be accessible to anyone with a junior level university background and a certain degree of mathematical maturity Computational Methods in Applied Mathematics, 2005 Generalized Fractional Order Differential Equations Arising in Physical Models Santanu Saha Ray, Subhadarshan Sahoo, 2018-11-13 This book analyzes the various semi analytical and analytical methods for finding approximate and exact solutions of fractional order partial differential equations It explores approximate and exact solutions obtained by various analytical methods for fractional order partial differential equations arising in physical models Monographic Series Library of Congress, Semi-Markov Migration Models for Credit Risk Guglielmo D'Amico, Giuseppe Di Biase, Jacques Janssen, Raimondo Manca, 2017-05-24 Credit risk is one of the most important contemporary problems for banks and insurance companies Indeed for banks more than forty percent of the equities are necessary to cover this risk Though this problem is studied by large rating agencies with substantial economic social and financial tools building stochastic models is nevertheless necessary to complete this descriptive orientation This book presents a complete presentation of such a category of models using homogeneous and non homogeneous semi Markov processes developed by the authors in several recent papers This approach provides a good method of evaluating the default risk and the classical VaR indicators used for Solvency II and Basel III governance rules This book is the first to present a complete semi Markov treatment of credit risk while also insisting on the practical use of the models presented here including numerical aspects so that this book is not only useful for scientific research but also to managers working in this field for banks insurance companies pension funds and other financial institutions Subject Guide to Books in Print ,1991 Books in Series ,1985 Vols for 1980 issued in three parts Series Authors and Titles New Technical Books New York Public Library, 1974 **Computational Probability and Simulation Sidney** J. Yakowitz, 1977 Random processes and Random number generators Simulation of probability experiments Gaming Random Walks and linear equations Gambler's ruin with extensions to inventory control Limiting processes for Random Walks and

time series simulation Monte Carlo integration and solution of differential equations Books in Print ,1994 Advances in Control Paul M. Frank, 2012-12-06 Advances in Control contains keynote contributions and tutorial material from the fifth European Control Conference held in Germany in September 1999 The topics covered are of particular relevance to all academics and practitioners in the field of modern control engineering These include Modern Control Theory Fault Tolerant Control Systems Linear Descriptor Systems Generic Robust Control Design Verification of Hybrid Systems New Industrial Perspectives Nonlinear System Identification Multi Modal Telepresence Systems Advanced Strategies for Process Control Nonlinear Predictive Control Logic Controllers of Continuous Plants Two dimensional Linear Systems This important collection of work is introduced by Professor P M Frank who has almost forty years of experience in the field of automatic control State of the art research expert opinions and future developments in control theory and its industrial applications combine to make this an essential volume for all those involved in control engineering **Operations Research in Transportation Systems** A.S. Belenky, 2013-06-29 The scientific monograph of a survey kind presented to the reader s attention deals with fundamental ideas and basic schemes of optimization methods that can be effectively used for solving strategic planning and operations manage ment problems related in particular to transportation This monograph is an English translation of a considerable part of the author's book with a similar title that was published in Russian in 1992 The material of the monograph embraces methods of linear and nonlinear programming nonsmooth and nonconvex optimization integer programming solving problems on graphs and solving problems with mixed variables rout ing scheduling solving network flow problems and solving the transportation problem stochastic programming multicriteria optimization game theory and optimization on fuzzy sets and under fuzzy goals optimal control of systems described by ordinary differential equations partial differential equations generalized differential equations differential inclusions and functional equations with a variable that can assume only discrete values and some other methods that are based on or adjoin to the listed ones

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