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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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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 Generalized Fractional Order Differential Equations Arising in Physical Models Santanu Saha mathematical maturity 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

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