

A Study on The Application of Artificial Intelligence in Mathematical Modeling

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Abstract: This paper discusses the application of artificial intelligence in the field of mathematical modeling. It analyzes the unique advantages of AI techniques, such as machine learning and deep learning, in improving the efficiency of mathematical modeling and solving complex problems. The specific application scenarios of AI in mathematical modeling in various fields, including natural science, engineering technology, social economy and so on, are introduced in detail. At the same time, we analyze the challenges of data quality and model interpretability in the application process, and look forward to the future trend of the integration of AI and mathematical modeling. The aim is to reveal the changes brought by AI to mathematical modeling, to provide reference for research and practice in related fields, and to promote new breakthroughs in mathematical modeling under multidisciplinary cross-fertilization.[1].

Keywords: Artificial Intelligence; Mathematical Modeling; Machine Learning; Applied Research that.

1. Introduction

Mathematical modeling, as an effective means of solving practical problems by mathematical methods, plays a key role in many disciplines and fields. From the simulation of physical phenomena in natural sciences, to the optimal design of systems in engineering and technology, to the prediction of market trends in socio-economic fields, mathematical modeling provides a clear logical framework and quantitative analysis for the solution of complex problems. However, with the increasing complexity of practical problems, traditional mathematical modeling methods face many challenges in dealing with large-scale data, highly nonlinear relationships and dynamic processes. The rapid development of artificial intelligence technology has injected new vitality into mathematical modeling.

2. The Technological Basis of Artificial Intelligence and Its Advantages in Mathematical Modeling

2.1. The technological basis of artificial intelligence

Machine learning, as one of the core fields of artificial intelligence, covers various paradigms such as supervised learning, unsupervised learning and semi-supervised learning. Supervised learning learns from labeled data and constructs predictive models for classification or regression prediction of new data, and common algorithms include decision trees, support vector machines, neural networks, etc. Unsupervised learning seeks to discover the intrinsic structure and patterns of data from unlabeled data, such as clustering. Unsupervised learning is dedicated to discovering the intrinsic structure and pattern of data from unlabeled data, such as clustering algorithms, principal component analysis, etc. Deep learning, as a branch of machine learning, is based on deep neural networks, which automatically learn complex feature representations from a large amount of data by constructing neural network models containing multiple hidden layers, and

has achieved great success in the fields of image recognition and speech recognition.

2.2. Advantages in mathematical modeling

Artificial intelligence shows significant advantages in mathematical modeling. First of all, its powerful data processing ability can quickly process massive data, mine valuable information from the data, and provide rich data support for the construction of mathematical models. Compared with traditional manual data processing, it greatly improves the efficiency and accuracy of data processing. Secondly, the self-learning ability of artificial intelligence makes the model able to adjust and optimize its own parameters according to new data, adapt to the dynamic changes of the problem, and improve the generalization ability of the model. For example, in time series prediction modeling, machine learning models can continuously learn new data patterns over time to improve the accuracy of prediction. Moreover, for complex nonlinear problems, artificial intelligence models such as neural networks can effectively solve highly nonlinear problems that are difficult to be handled by traditional mathematical models by constructing complex nonlinear mapping relationships, providing a more powerful tool for mathematical modeling.

3. Application Scenarios of Artificial Intelligence in Mathematical Modeling

3.1. In the field of natural sciences

In physics, mathematical modeling using artificial intelligence can be used to simulate complex physical systems. For example, when modeling the many-body problem in quantum mechanics through deep learning models, traditional mathematical methods are difficult to solve accurately due to high computational complexity, while deep learning models can predict the quantum state and physical properties of the many-body system by learning from a large amount of simulation data. In astronomy, AI-assisted mathematical modeling is used for galaxy evolution simulation and celestial

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Mathematical and Computational Modeling Roderick Melnik, 2015-05-21 Mathematical and Computational Modeling Illustrates the application of mathematical and computational modeling in a variety of disciplines With an emphasis on the interdisciplinary nature of mathematical and computational modeling Mathematical and Computational Modeling With Applications in the Natural and Social Sciences Engineering and the Arts features chapters written by well known international experts in these fields and presents readers with a host of state of the art achievements in the development of mathematical modeling and computational experiment methodology The book is a valuable guide to the methods ideas and tools of applied and computational mathematics as they apply to other disciplines such as the natural and social sciences engineering and technology The book also features Rigorous mathematical procedures and applications as the driving force behind mathematical innovation and discovery Numerous examples from a wide range of disciplines to emphasize the multidisciplinary application and universality of applied mathematics and mathematical modeling Original results on both fundamental theoretical and applied developments in diverse areas of human knowledge Discussions that promote interdisciplinary interactions between mathematicians scientists and engineers Mathematical and Computational Modeling With Applications in the Natural and Social Sciences Engineering and the Arts is an ideal resource for professionals in various areas of mathematical and statistical sciences modeling and simulation physics computer science engineering biology and chemistry and industrial and computational engineering The book also serves as an excellent textbook for graduate courses in mathematical modeling applied mathematics numerical methods operations research and optimization

Mathematical Modeling with Multidisciplinary Applications Xin-She Yang, 2013-01-14 Features mathematical modeling techniques and real world processes with applications in diverse fields Mathematical Modeling with Multidisciplinary Applications details the interdisciplinary nature of mathematical modeling and numerical algorithms The book combines a variety of applications from diverse fields to illustrate how the methods can be used to model physical processes design new products find solutions to challenging problems and increase competitiveness in international markets Written by leading scholars and international experts in the field the book presents new and emerging topics in areas including finance and economics theoretical and applied mathematics engineering and machine learning physics chemistry ecology and social science In addition the book thoroughly summarizes widely used mathematical and numerical methods in mathematical modeling and features Diverse topics such as partial differential equations PDEs fractional calculus inverse problems by ordinary differential equations ODEs semigroups decision theory risk analysis Bayesian estimation nonlinear PDEs in financial engineering perturbation analysis and dynamic system modeling Case studies and real world applications that are widely used for current mathematical modeling courses such as the green house effect and Stokes flow estimation Comprehensive coverage of a wide range of contemporary topics such as game theory statistical models and analytical

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Dynamical Systems and Their Applications in Biology Shigui Ruan,Gail Susan Kohl Wolkowicz,Jianhong Wu,Fields Institute for Research in Mathematical Sciences,2003-01-01 This volume is based on the proceedings of the International Workshop on Dynamical Systems and their Applications in Biology held at the Canadian Coast Guard College on Cape Breton Island Nova Scotia Canada It presents a broad picture of the current research surrounding applications of dynamical systems in biology particularly in population biology The book contains 19 papers and includes articles on the qualitative and or numerical analysis of models involving ordinary partial functional and stochastic differential equations Applications include epidemiology population dynamics and physiology The material is suitable for graduate students and research mathematicians interested in ordinary differential equations and their applications in biology Also available by Ruan Wolkowicz and Wu is *Differential Equations with Applications to Biology* Volume 21 in the AMS series Fields Institute Communications

Dynamical Systems, PDEs and Networks for Biomedical Applications: Mathematical Modeling, Analysis and Simulations André H. Erhardt,Krasimira Tsaneva-Atanasova,Glenn Terje Lines,Erik Andreas Martens,2023-02-15

Methods of Mathematical Modeling Hemen Dutta,2025-08-01 Methods of Mathematical Modeling Advances and Applications delves into recent progress in this field highlighting innovative methods and their uses in different domains This book covers convergence analysis involving nonlinear integral equations and boundary value problems Navier Stokes equations in Sobolev Gevrey spaces magneto hydrodynamics of ternary nanofluids with heat transfer effects vortex nerve complexes in video frame shape approximation hybrid schemes for computing hyperbolic conservation laws and solutions to new fractional differential equations Additionally the book examines dynamics of Leslie Gower type predator prey models and models for the dynamics of generic crop and water availability Readers will find diverse approaches techniques and applications needed for modeling various physical and natural systems Each chapter is self contained encouraging independent study and application of the modeling examples to individual research projects This book serves as a valuable resource for researchers students educators scientists and practitioners involved in different aspects of modeling Provides new mathematical methods and techniques for modeling various physical and natural systems Includes new hybrid computational schemes and procedures for handling wave interactions Includes advanced level convergence analysis and generalized Navier Stokes equations Provides readers with the dynamics of predator prey generic crop and water availability models

BIOMAT 2009 Rubem P. Mondaini,Rubem Mondaini,2010 This volume contains the

selected contributed papers from the BIOMAT 2009 Ninth International Symposium on Mathematical and Computational Biology and the contributions of the Keynote Speakers which present the state of the art of fundamental topics of interdisciplinary science to research groups and interested individuals on the mathematical Modelling of biological phenomena New results are presented on cells particularly their growth rate and fractal behavior of colony contours on control mechanisms of molecular systems the Monte Carlo simulation of protein models and on fractal and nonlinear analysis of biochemical time series There are also new results on population dynamics such as the paleodemography of New Zealand and a comprehensive review on complex food webs Contributions on computational biology include the use of graph partitioning to analyse biological networks and graph theory in chemosystematics The studies of infectious diseases include the dynamics of reinfection of Tuberculosis the spread of HIV infection in the immune system and the real time forecasting of an Influenza pandemic in the UK New contributions to the field of Modelling of physiological disorders include the study of macrophages and tumours and the influence of microenvironment on tumour cells proliferation and migration

Mathematical Models in Epidemiology Fred Brauer, Carlos Castillo-Chavez, Zhilan Feng, 2019-10-10 The book is a comprehensive self contained introduction to the mathematical modeling and analysis of disease transmission models It includes i an introduction to the main concepts of compartmental models including models with heterogeneous mixing of individuals and models for vector transmitted diseases ii a detailed analysis of models for important specific diseases including tuberculosis HIV AIDS influenza Ebola virus disease malaria dengue fever and the Zika virus iii an introduction to more advanced mathematical topics including age structure spatial structure and mobility and iv some challenges and opportunities for the future There are exercises of varying degrees of difficulty and projects leading to new research directions For the benefit of public health professionals whose contact with mathematics may not be recent there is an appendix covering the necessary mathematical background There are indications which sections require a strong mathematical background so that the book can be useful for both mathematical modelers and public health professionals

Advances in mathematical and computational oncology, volume III George Bebis, Dinler Amaral Antunes, Ken Chen, Mohammad Kohandel, Kathleen Wilkie, Mamoru Kato, Jinzhuang Dou, 2023-10-25 **Advances in Mathematical and Computational Oncology** Doron Levy, George Bebis, Russell C. Rockne, Ernesto Augusto Bueno Da Fonseca Lima, Katharina Jahn, Panayiotis V. Benos, 2022-05-05 *Mathematical Studies on Human Disease Dynamics* Abba B. Gumel, Carlos Castillo-Chávez, Ronald E. Mickens, Dominic P. Clemence, 2006 This volume contains the proceedings of the AMS SIAM IMS Joint Summer Research Conference on Modeling the Dynamics of Human Diseases Emerging Paradigms and Challenges held in Snowbird Utah July 17 21 2005 The goal of the conference was to bring together leading and upcoming researchers to discuss the latest advances and challenges associated with the modeling of the dynamics of emerging and re emerging diseases and to explore various control strategies The articles included in this book are devoted to some of the significant

recent advances trends and challenges associated with the mathematical modeling and analysis of the dynamics and control of some diseases of public health importance In addition to illustrating many of the diverse prevailing epidemiological challenges together with the diversity of mathematical approaches needed to address them this book provides insights on a number of topical modeling issues such as the modeling and control of mosquito borne diseases respiratory diseases animal diseases such as foot and mouth disease cancer and tumor growth modeling influenza HIV HPV rotavirus etc This book also touches upon other important topics such as the use of modeling i *Mathematical Models* Arnold Emch,1920 **Journal of analysis and its application** ,2000 **Dynamic Systems and Applications** ,2006 **An Introduction to Modern Logic** Rupert Clendon Lodge,1920 Journal of Mathematical Biology ,1990 Proceedings of the IVth International Symposium on Applications of Modelling as an Innovative Technology in the Agri-Food-Chain P. Barreiro,2008

Mathematical Modeling for Big Data Analytics Passent El-Kafrawy,Mohamed F. El-Amin,2025-11-01 Mathematical Modelling for Big Data Analytics is a comprehensive guidebook that explores the use of mathematical models and algorithms for analyzing large and complex datasets The book covers a range of topics including statistical modeling machine learning optimization techniques and data visualization and provides practical examples and case studies to demonstrate their applications in real world scenarios Users will find a clear and accessible resource to enhance their skills in mathematical modeling and data analysis for big data analytics Real world examples and case studies demonstrate how to approach and solve complex data analysis problems using mathematical modeling techniques This book will help readers understand how to translate mathematical models and algorithms into practical solutions for real world problems Coverage of the theoretical foundations of big data analytics including qualitative and quantitative analytics techniques digital twins machine learning deep learning optimization and visualization techniques make this a must have resource Provides comprehensive coverage of mathematical and statistical techniques for big data analytics Gives readers practical guidance on how to approach and solve complex data analysis problems using mathematical modeling techniques with an emphasis on effective communication and presentation of results Includes leading edge information on current trends and emerging technologies and tools in the field of big data analytics with discussions on ethical considerations and data privacy **The American Mathematical Monthly** ,1927 Includes section Recent publications **Computing and Simulation for Engineers** Ziya Uddin,2022 This book presents the reader with comprehensive insight into various kinds of mathematical modeling and numerical computation for problems arising in several branches of engineering such as mechanical engineering computer science engineering electrical engineering electronics and communication engineering and civil engineering The book Discusses topics related to clean and green energy production and storage Bridges the gap between core theory and costly industrial experiments Covers advanced biomechanics and nanodrug delivery topics Explores diversified applications of mathematical techniques to solve practical engineering problems The text in this book emphasizes mathematical treatment of soft computing image and signal

processing fluid flows in various geometries biomechanics biological modeling a mathematical description of the solar cell analytical and numerical treatment of problems in fracture mechanics and antenna design modeling It also discusses the numerical computations of biomechanics problems and problems arising in cryptography The text further covers optimization techniques that are useful for real world problems This material is primarily written for graduate students and academic researchers in a number of engineering fields including electrical electronics and communication industrial manufacturing mechanical computer science and mathematics

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