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 learns 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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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

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 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

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