# A Study on The Application of Artificial Intelligence in Mathematical Modeling

Yeping Sun*, Xiaoyang Zhao

Henan Polytechnic Institute, Nanyang, 473000, China
*Corresponding author: 644550480@qq.com

**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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*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 theart 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,2013-04-01 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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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

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