

# Discussion on the Position and Function of Statistical Methods in Modern Economics

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**Abstract**—With the improvement of people's living standards, the structure of society has gradually become more complex, and modern economics is even more unpredictable. No matter how the economic situation in China and internationally changes, we must adhere to the method of viewing problems through the perspective of modern economics. Skilled use of statistical methods in modern economics. Now, in view of the use of modern economic statistical methods in China, this paper analyzes the important position and significant role of statistical methods, and gradually strengthens the important position of statistical methods in China's economic development.

## 1 INTRODUCTION

With the development and progress of economy and science and technology, the fields in which economics is applied are becoming more and more extensive, and the research methods of relevant economics are also innovating constantly. In particular, mathematical statistics plays a fundamental role in the development of economic research. Statistical method the application of modern economics has been paid more and more attention, leaving the analysis of statistical quantity, economic philosophy will replace the possible status of economics. In this context, we must research the statistical methods play a role in the modern economics, and its status, using the abstract of the scientific method to solve the problems of economics, economic theory is more scientific to explain, on economic forecasts and the guidance of enterprise development at the same time also have certain efficiency. The widespread use of statistical methods is precisely to show that mathematics knowledge has an important influence in society. In the face of the massive data in our society, in order to better study China's economic development trends and master the lifeline of China's economic development, statistical methods have become modern economics. With the continuous development of mathematics in China, the modular knowledge in statistical methods helps us to efficiently process data and analyze data in depth. The new development trend of modern economics is to combine the efficient computing power of computers and the principles of statistical methods.

## 2 HISTORY OF THE APPLICATION OF STATISTICAL METHODS IN MODERN ECONOMICS

As China's reform and opening-up efforts continue to increase, we in the new era have gradually made new demands. In order to maintain our country's development still maintain a strong impetus, adhere to sustainable development, multi-faceted cooperation has become the main trend of the era's development the huge potential ability of compound talents is an important foundation for maintaining the development of social diversity. Diversity is the goal we are pursuing, and the education field is also facing new challenges and opportunities. With the continuous deepening of modern economics and the development of statistical methods, modern economics analyzes data, understands data, and strengthens the process of effective development. Gradually, statistical methods were added. And with the update of modern economics research methods, more refined and predictive effects, only statistical methods can well meet the requirements of modern economics research. The development of statistical methods has an in-depth status and an important position in the field of modern economic theory. The purpose of statistical methods is to collect, organize, and analyze data. Mathematics is rigorous, and statistical methods use data in modern economics research. A detailed analysis process was done to basically ensure people's pursuit of effective and rapid economic research. Statistical methods also have a significant influence in daily life. Mathematics knowledge is ubiquitous in life. Various economic activities such as buying and selling, clear rules and fast and good processing effects are everyone's expectations. In people's daily life, only the full use of statistical methods is an effective means to fully grasp all economic content, and the substance is more organized and accurate. The most obvious function of

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statistical methods is to simplify and sort out the problems in modern economics, and to run all stages of modern economics in a scientific and objective way. Nowadays, the research on economics and mathematics has been very in-depth, and there are quite a few results. Statistics The use of the method is more proficient, not only can it effectively deal with the problems encountered in economics, but also has a strong adaptability in economic theory. I believe that with the continuous updating of statistical methods and the continuous development of modern economics, the combination of the two will definitely make the development trend of our country more clear. [1]

### **3 WITH THE DEVELOPMENT OF MODERN ECONOMICS, STATISTICAL METHODS HAVE SIGNIFICANT ADVANTAGES IN STATUS AND FUNCTION**

#### **3.1 Promotion of statistical methods on modern economics**

Based on many theories of modern economics, it is not difficult to find the unity of economic models and statistical models. Without the use of statistical methods in the processing of data by economics, it is difficult to carry out the following research process. To a certain extent, it affects the research work in the field of modern economics. Data is an important part of economics. Only through step-by-step data analysis can the essential content of economic problems be gradually disintegrated. The characteristics of modern economics are also structural. Statistical methods connect well the content of different structures. Full exchange of information is an important method to further grasp the basic content of modern economy. Reform and opening up have brought many opportunities and many changes. Modern economics has combined with statistical methods to develop a new structure and direction for my country's economic market, making my country's economic development more active and vigorous. The contemporary scientific development has caused a violent impact on many fields. With the development of high technology, the statistical method has realized a scientific and systematic information processing model.[2] Through the combination with computer technology, the statistical method has achieved a more intuitive display of information processing the simplification and superficial analysis of the situation no longer meet the requirements of the current era. With people's pursuit of a better life, our society has undergone earth-shaking changes. A complete education system has brought more outstanding talents to our country. The development of higher quality can gradually adapt to people's pursuit of higher quality. Statistical methods have been gradually updated, and computer technology has changed the way information is processed, allowing efficient and fast information processing methods to meet the requirements of the new era of reform, satisfying people's increasing pursuit of high-quality life, and allowing modern economics to do many things. The efficiency has been improved. Statistical

methods have also led to the development of modern economics that focuses more on multidisciplinary learning. In order to adapt to a higher level of development, the innovation of statistical methods requires the advancement of science and technology and the improvement of mathematical ideas, and society needs many interdisciplinary subjects for a better future. For professional talents, the unification of modern economics and statistics has become the requirement of today's era and the direction that people must strive to achieve a better life. Only by fully grasping the statistical methods and understanding the combined effects of statistical methods and modern economics can we further connect the theoretical knowledge of modern economics with reality, let talents make reliable and scientific economic decisions in enterprises, and make our country's economic development direction more clear. [3]

#### **3.2 The important position of statistical methods in modern economics**

Statistical methods also play an important role in the research of modern economic theory. Both statistical methods and modern economics are very closely connected. With the development of the new era, the theoretical research of modern economics needs to be based on a large number of practical processes. Only by fully grasping the statistical methods that need to be continuously updated, and continuously analyzing and sorting the data, will people gradually come to the content of new modern economics that adapts to the development of the new era. Modern economics covers many aspects. For example, econometrics pays more attention to the significant mathematical ideas in statistical methods to analyze the contemporary economic situation. For people's better life, China adheres to the sustainable development strategy of the scientific development concept and pays attention to the common development of science and economy.[4] China needs to achieve a higher level of modernization, which is based on China's gradually developing a strong economic core force, modern economics Not only is the new manifestation of contemporary economy, the development of a modern economy is an important foundation for people to have a good life. The economic foundation determines the superstructure, and the combination of statistical methods and modern economy is an important way for China to develop modernization. In the face of many problems encountered in the development of modern economics in China, statistical methods are the key to open the door. As the main means of analyzing the development of modern economy, people are allowed to adhere to the scientific development concept of mathematics with a rigorous and scientific working attitude, truth and The connection of science, the integration of modern economy and statistical methods have brought China's economic situation into a new stage, and our people are moving towards a more prosperous and better life. At the educational level, statistical methods occupy an important position. In the learning process of modern economics, in the face of complex and changeable forms, in order to better analyze modern development trends, the

teaching of statistical methods helps students to use real data, Scientific analysis methods to understand the many contents of modern economics. After entering the enterprise in the future, most of the development of modern enterprises will use statistical methods to accurately analyze many decisions of the enterprise, compare the economic benefits under different schemes, and the impact of long-term development. Statistical methods are the basic learning content of modern economics. Many economic decisions require statistical methods to achieve reliability, sustainability, and high profitability on the basis of full analysis of data. Statistical methods can also help complete the prediction of enterprise projects. Function, in order to reduce the loss of the enterprise, maximize the economic benefit, and control the enterprise's risk within a certain range, the statistical method also fully uses the many basic knowledge of modern economics in various environments, various economic variables, The influencing factors and mutual relations can be clearly displayed, and the development of modern economy has achieved a scientific and efficient effect to a large extent. Statistical methods have a great influence in modern economics, not only the basic position in education. It is also an important position for China's actual economic development.[5]

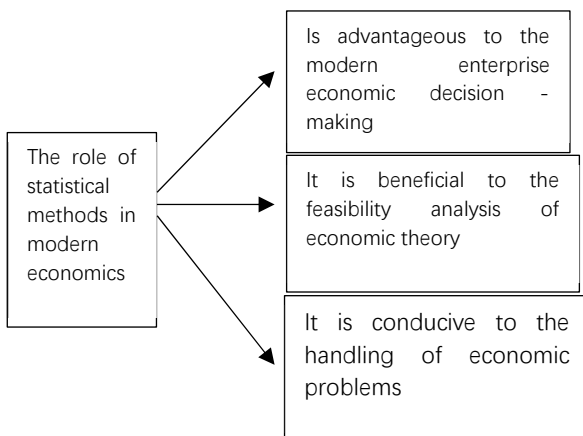


Figure 1. The role of statistical methods in modern economics

## 4 APPLICATION MEASURES OF STATISTICAL METHODS IN MODERN ECONOMICS

Under the current social development situation, we must closely follow the progress of society, continue to carry out reforms and innovations, strengthen the learning and reference of advanced concepts at home and abroad, and effectively promote the scientific and reasonable application of statistical methods in modern economics. How to further promote the modern economy the orderly and healthy development of learning can take the following measures as an entry point.[6]

### 4.1 Build a sound market economy system

With the continuous deepening of the development of China's socialist market economy, in order to further create a good opportunity for the development of China's market

economy and promote it to achieve more sustainable and healthier development in a favorable environment, it is required to provide for the current market economy system. Gradually build and improve, so as to effectively grasp the development trend of the socialist market economy in the future, further open up an ideal industrial road suitable for China's economic development at this stage, and mobilize the subjective initiative of enterprises to participate in market competition, so that enterprises can carry out innovation and truly In the sense, it continuously improves its own market competitive advantage. During this period, when applying statistical methods to economics, companies should promote the gradual improvement of various statistical theories and economic theories, pay attention to the practical application of a series of statistical methods, accumulate practical experience, and improve the scientific and reasonable methods of corporate economic research It will play an effective role of statistical methods in the economic decision-making of enterprises, promote the gradual construction and perfection of the market economy system, and create a benign external economic environment for enterprise development and market competition.[7]

### 4.2 Establish an economic data collection system.

In order to ensure the effective play of statistical methods in modern economics, it is necessary to ensure the timeliness of the collection of economic data, the objective authenticity of economic data, and the completeness of economic data. In view of this, a scientific and complete economic data collection system should be established. In China, the collection and sorting of economic data is usually carried out by the economic statistics department. In order to ensure the timely, accurate and comprehensive economic data collection, on the one hand, an economic data statistical indicator system should be established to clarify the scope and conditions of economic data collection. It should be established, and the importance of economic data collection in related emerging industries should be increased; on the other hand, economic data investigation should be strengthened, and scientific and applicable technical methods should be introduced to carry out economic data collection to ensure the reliability of economic data and improve economic data The collection efficiency. In addition, we should build a sound data collection system, pay attention to the coordination and cooperation of relevant departments, and promote the orderly development of economic data collection in a real sense.[8]

### 4.3 Promote the scientific application of statistical methods in economics

First, it should be clear that the application of statistical methods in economics is to solve problems, not to apply methods. Method application is only a process, and the final result is the result. If the problem can be solved with the help of simple economic methods, there is no need to apply mathematical statistical methods. Second, we must

promote the scientific application of statistical methods and economic methods. Even in the modern economy, people need to carry out qualitative and quantitative analysis at the same time when dealing with economic problems. Quantitative analysis is generally inseparable from the effective support of statistical methods, but it does not mean that economic methods suitable for qualitative analysis are not available. However, the most suitable solution should be selected based on the actual situation of the economic problem. Finally, China's relevant departments should also promote the scientific application of statistical methods in different industries, so as to provide a strong basis for enterprise development.

#### **4.4 Strengthen the training of professional statistical talents**

In the era of knowledge economy in the 21st century, talents play a decisive role in enterprise development and social progress. The development of modern enterprises is inseparable from professionals who can apply statistical methods to deal with economic problems. In view of this, in order to ensure the effective play of statistical methods in modern economics, companies must strengthen their mastery of economics-related theories and skilled application of statistical methods, as well as professional personnel who understand sociology, psychology, marketing and other disciplines. The training of statistical methods is to ensure the scientific rationality of the application of statistical methods on the premise of improving the professional quality of statistical talents, and to reduce the application of statistical methods caused by human factors. For universities that are important positions for talent training and output, they should fully integrate the development needs of the talent market, promote the reform and innovation of talent training models in universities, strengthen the professors of statistical methods in the training of economics professionals, and achieve economic and statistics related disciplines. Effective fusion.

## **5 CONCLUSION**

With the gradual formation of the community of world destiny, the development of modern economy will become more complicated, and statistical methods will pay more attention to the combination of economic principles and mathematical knowledge. In order to better grasp my country's economic development and look forward to future economic development, statistical methods will efficiently process massive amounts of information with the aid of computers and go deeper into modern economics. In the future, I believe that with the general strengthening of scientific thinking ability, the development of my country's modern economy will become more vigorous and energetic.

## **REFERENCES**

1. Zhang Yisong. Analysis of the role of statistical methods in modern economics [J]. *Modern Marketing*, 2018, 000 (002): 224-225.
2. Xie Yue. The position and role of statistical methods in modern economics [J]. *Shopping Mall Modernization*, 2014, 27 (01): 206-207.
3. Zhang Yisong. Analysis of the role of statistical methods in modern economics[J]. *Modern Marketing: Xueyuan Edition*, 2018.
4. Feng Huidi. Analysis of the application of mathematical statistical methods in modern economy and society[J]. *Business News. Corporate Finance*, 2018, 000(008):1-2.
5. Hong Yongmiao. The status, function and limitation of econometrics[J]. *Working Papers*, 2013(5):139-153.
6. Jie Yue. The status and role of statistical methods in modern economics [J]. *Market Modernization*, 2014, 27(01): 206-207.
7. Tong Yongpeng. Discussion on the application of mathematical methods in modern economics [J]. *Coastal Enterprises and Technology*, 2010, 05(12): 46-47.
8. Huang Xiaofei. Analysis on the Application of Mathematical Statistics in Economics [J]. *Chinese Market*, 2015, 13(15): 142-143.