

Analysis on the Effect of Statistical Method on Modern Economic Society

Ye Yuan

Anyang Normal University, Anyang, Henan, 455000, China

Abstract: In recent years, with the continuous development and progress of society, people pay more and more attention to and pay attention to economics. In special modern society, the level of science and technology continues to improve. Accurately grasp the economy and science and technology, in the modern economic society has a certain right and status. Therefore, the status of economics in the modern economic and social status is constantly improving, and statistical methods are a more commonly used tool in economics, statistical methods for the modern economic society has a very important role. The author probes into and analyzes the important role of statistical methods in modern economic society and puts forward the use of statistical methods in modern economic society, hoping to contribute to the development of modern economy and society.

Keywords: *Statistical methods; Modern Economic and social; function*

Publication date: April, 2019

Publication online: 30 April, 2019

Corresponding Author: Ye Yuan, 18860266387@163.com

0 Introduction

In modern economic society, no matter which industry has a close relationship with economics, at the same time, people's daily life and economics have a close relationship. A lot of things need to be calculated accurately, otherwise it is likely to cause a series of problems. Under such a background, economics is becoming more and higher in modern economic society, economics is a comprehensive subject, statistical method is one of the key contents, and its nature is closely related to people's work and life. The role of statistical methods in modern economic society cannot

be ignored, therefore, we need to learn the process, and we should focus on strengthening the study of statistical methods, in order to lay a good foundation for their own future development.

1 The blending of statistical methods and modern economic society

Statistical method is a more widely used method in economic research, and the relationship between statistical methods and modern economic society is more and more close, therefore, the blending of statistical methods and modern economic society is an inevitable trend. A review of historical developments, in 17th century, there has been a trend of convergence between statistics and economics ^[1]. In the book "Political Arithmetic", statistics and economics are fused for the first time, but because of the limitation of social development at that time, the integration of the two is mainly qualitative analysis, and the full use of statistical methods has not been realized. Until the early 19th century, there was a deeper integration between statistics and economics. At the time, German economists focused on the paper they published. The necessity and importance of the application of statistical methods in economics. Subsequently, British economists carried out a further study of the relationship between statistical methods and economics, and put forward a new point of view, that is, through statistical methods to build economic mathematical models. After this, the statistical method has been widely used and popularized in economics ^[2]. In the middle of the 20th century, under the influence of the third scientific and technological revolution, the theoretical research and practice of statistical methods in economics have been a major breakthrough, and there has been an innovative

integration between the two, while social development has entered a new stage. In modern economic society, statistical methods are used on a large scale, whether in microscopic economics or macroscopic economics, and their role in modern economic society is becoming more and more obvious ^[3].

2 The important role of statistical method in modern economic society

2.1 Statistical methods can solve the problems of economics in modern economy and society

The important advantages of statistical methods are rigorous, sophisticated analytical processes and accurate and clear analysis of results. In the process of solving the problems related to economics in modern economic

society, the results are required to be highly scientific and accurate ^[4]. Thus, statistical methods are of great significance to the solution of economic problems in modern economic society. Long time ago, statistical methods have begun to be applied in economics, in the context of the continuous development and integration of the two, in the modern economic society, has produced more specialization theory. For example, mathematical economics, econometric, etc., which also provides a good theoretical basis for the full play of the important role of statistical methods in modern economic society. In the use of statistical methods to solve some of the problems related to economics in modern economic society, the main model of applied statistical methods is "economy-statistics-economy". Specific elements are shown in table 1.

Table 1

Steps	Specific content
Economic	Taking the real economic problems existing in the modern social economy as the important entry point, constructing the statistical model
Statistics	A comprehensive analysis of the statistical model is carried out through a series of statistical methods, and the results are obtained.
Economic	Through economic theory to make a scientific assessment of the results, so as to obtain the final results

The results obtained by this statistical method model can not only reasonably guide the economic activities of modern economy and society, but also predict the development trend of modern economy and society. In particular, enterprises in the modern economic society, in the economic decision-making, can use statistical methods to carry out a full range of qualitative and quantitative analysis of the economic activities of enterprises, so as to make accurate and scientific predictions of the implementation results of decisions, and combined with the actual situation of enterprises, the results of reasonable optimization and control, In order to improve the effectiveness and reliability of enterprise economic decision-making, and then effectively prevent the loss of material and financial resources of enterprises ^[5].

2.2 Statistical method is an important tool for economic theory analysis in modern economic society

From the beginning of the integration of statistics and economics, it has been developed to modern economic society, and statistical methods have been gradually applied in the research and analysis

of solving major economic problems. With the deepening integration between statistics and economics, more economic phenomena in modern economic society can be interpreted more rationally and scientifically through statistical methods ^[6]. Especially in recent years, statistical methods have been widely used in the analysis of economic relations and economic phenomena in modern economy and society, which can determine the results of analysis from a quantitative point of view and can also judge the results from a qualitative point of view. Thus, if there is no statistical method, then some economic problems in the modern economic society will be difficult to effectively solve ^[7].

3 Statistical methods use in modern economy and society

3.1 Using statistical method to solve the economic problems in modern economy and society more easily

When using statistical methods to solve economic problems in modern economic society, we should analyze the main characteristics of statistical methods

and use them as entry points^[8]. The main features of the statistical methodology are shown in table 2.

Table 2

Key Features	Specific content
Rigour	In the process of using statistical methods, mathematical computation is an essential part of it, and mathematics is more rigorous than other arts disciplines. And the result of the calculation is usually unique, if there are two calculation answers, then there is a problem with the process of calculation. Therefore, in solving some of the more serious economic problems in modern economy and society, we should apply statistical methods to obtain the only answer with rigour.
Logic	In the whole calculation link of statistical method, it has strong logic, and the calculation of each step has certain logic, so that the problem can be solved finally. If there is no logic, then it is impossible to mention the use of statistical methods to solve economic problems in modern society. In addition, the logic of chaos can not be difficult to solve the problem. Therefore, in the modern social economy, the statistical method plays an important role in solving the problem of certain logical economy.
Normalization	Can effectively turn complex problems into a relatively simple problem, which fully embodies the idea of the normalization of statistical methods. This idea is more helpful to the solution of the problem. In the modern economic society, when they encounter the economic problems with the characteristics of normalization, we can use statistical methods to solve

From the economic problems existing in the modern economic society, the economic problems are usually the practical problems, and the answers to their solutions have the unique characteristics and need to be solved more strictly and precisely. In addition, these economic problems generally have a relatively close relationship with daily real life, which requires a certain degree of logic in the process of solving, so as to ensure that economic problems can be successfully resolved. At the same time, most of the economic problems existing in modern economic society are more complex, which needs to be effectively solved through the idea of attribution^[9]. Thus, statistical methods play a very important role in modern economic society, especially in the solution of economic problems, its rational use, not only can effectively prevent the emergence of economic decision-making mistakes, but also can reduce unnecessary expenditure.

3.2 Analysis of economic theory by statistical method

In modern economic society, the content of relevant economics is usually related to reality. However, in the process of solving economic problems, if the economic problems are judged objectively by the understanding of reality alone, then the first qualitative analysis method to solve the economic problems^[10]. However, with the continuous development and progress of society, it is clear that this method is no longer applicable to solve most of the economic problems in modern economic

society. When the use of statistical methods to solve the economic problems in modern economic society, it can be very good to transform it into a relatively simple abstract mathematical problem, so that the solution of the problem will be more objective, only the collection and analysis of various data can be, and do not need to carry out too much subjective thinking. In order to effectively prevent deviations due to subjective factors affecting the outcome of the problem resolution^[11]. Therefore, in the modern economic society, people focus more on the use of statistical methods to solve and analyze economic problems. This is also a modern economic and social, most enterprises are more commonly used in a method.

4 Examples of statistical methods applied to modern economic society

In the GDP analysis model, statistical methods and quantitative analysis can be used to produce the corresponding statistical indicators and complete the construction of the index system. The main steps are shown in table 3.

Typically, there are more factors affecting GDP, and changes in these factors are uncertain, so there is a certain deviation in the predicted values derived from statistical methods and quantitative analysis, but this does not mean that the predicted values obtained lack accuracy. In other words, predictive values simply guide a direction for economic activity, so the predicted values obtained by statistical methods have some reliability.

Table 3

	Specific content
Step 1	Based on the actual development of economy and society at present, this paper studies the main influencing factors and calculation methods of gross domestic product.
Step 2	The relevant data are processed by regression analysis in quantitative analysis, and the relationship model between gross domestic product and practice sequence is constructed.
Step 3	Using statistical methods to carry out research, and finally obtain statistical results

5 Conclusion

To sum up, statistical methods have an important role to play in modern economic society, and statistical methods can not only effectively solve the economic problems in modern economy and society, but also be an important tool for economic theory analysis in modern economic society. Therefore, in the modern economic society, we should strengthen the research and analysis of statistical methods, so as to make better use of them, so as to give full play to its unique role.

References

- [1] Zhao Jiaqi. On the effect of mathematical statistical methods on modern economic society [J]. Economic and trade practice, 2018 (2X):129-130.
- [2] Zheng Mingming. Discussion on the methods of health economic statistics [J]. Modern economic information, 2018 (15): 79.
- [3] Lin Ziqiao. How to improve statistical methods to improve the quality of statistical work in institutions [J]. Modern economic information, 2017 (17): 98.
- [4] Xiong Shasha. Thoughts on the reform of Statistics education for economic management specialty [J]. Modern vocational education, 2017 (15): 47-47.
- [5] Zeng Wei. Statistical legal publicity and education based on service-oriented statistical construction analysis [J]. Modern economic information, 2018 (11): 339+343.
- [6] Yuan Xuemei. The role and significance of Statistics in economic and social development Modern marketing (Late edition) [J]. 2018 (04): 9.
- [7] Zheng Xiaohui. Challenges and countermeasures of statistical work in the information age [J]. Modern state-owned enterprise research, 2017 (24): 158-158.
- [8] Liu Jianying. Problems and countermeasures of statistical work at street level [J]. National circulation economy, 2017 (14): 103-104.
- [9] Du Hang. Thinking of traditional statistics transformation in the era of big data [J]. Science and technology innovation guide 2018, 439 (07): 245-246.
- [10] Tao Shu. Historical and current research on social, economic and legal status in China -- Commentary on practice and theory: a historical and practical study of Chinese society, economy and law [J]. Statistics and decision-making, 2018.
- [11] Si Zhanfeng. Analysis on the challenges and countermeasures of statistical information construction [J]. Modern economic information, 2018 (07): 134.