

# The Influence of Big Data Technology on Axiology and Philosophy of Science

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**Abstract:** This Paper First Analyzes the Influence of Big Data Technology on Axiology from Three Aspects: Enhancing Value Expressiveness, Enhancing Value Universality and Enhancing Value Predictability; Then, Combining the Two Aspects of Enriching the Research Approaches of Philosophy of Science and Optimizing the Research Quality of Philosophy of Science, the Paper Studies the Influence of Big Data Technology on Philosophy of Science.

## 1. Introduction

Big data technology has set off a new revolution in the field of science philosophy while promoting the rapid development of modern society. In the new situation, the scientific philosopher's exploration of the law of knowledge will no longer deal with the cause and effect, no longer rely on the experience, but use the massive data information as the research object, and interpret the data as a new way of scientific explanation. Therefore, it is necessary to discuss the impact of the great data technology on the value and the scientific philosophy.

## 2. The Influence of Big Data Technology on the Value of Value

Value theory is a further field of research after the theory of the methodology. It mainly discusses the application value, application standard and application evaluation of science. When people understand the objective world and summarize the objective laws, they also keep the utilization rules, and the demand of transforming the world, the theory of value is generated. In society, any kind of scientific research carried out around the relationship of social interests is based on the correlation theory of value. At the same time, in the perspective of value theory, the value of scientific research will also change with the change of social era. Therefore, science and technology level can be regarded as an important measure of comprehensive national strength, civilization level, scientific research. The stronger the ability, the higher the level of science and technology, the higher the social and development potential of the country. In the era of large data technology, the value of value has realized the new development and performance, in particular:

### 2.1 Big Data Technology Enhances the Expressive Force of Value

In the traditional period, the lag of the information acquisition ability and the data processing method and so on, the analysis and research of the data is inevitable, and the result of the research can not accurately reflect the objective reality of the current era, The value of the application of scientific knowledge is also at a lower level. under the age of large data, the data acquisition, storage and processing of large-scale and fast-speed data acquisition, storage and processing can be realized by the functional support of various equipment tools and algorithm programs, so that the problems of traditional "Zombie data" and "aging data" are eliminated to a great extent, and the activity of data application is realized, to be young and to really make a scientific research Match with the present era, let scientific knowledge serve social development. Historically, although human scientific research activities have long been long ago, it is only the first time that big data technology appears to realize the data value and the contemporary nature and continuity of knowledge value[1].

## **2.2 Big Data's Technology Has Enhanced the Universality of Value**

In the era of big data technology, the traditional scientific barrier of “walking apart like a mountain” has been broken, which promotes the wide sharing and universal adaptation of data value and scientific research value. For example, by analyzing the big data of expressway traffic in a certain year, we can not only grasp the cycle logic of people's daily travel, but also help to realize the regular summary of the relationship between residents' travel and local economy, tourism level, regional environment, urban-rural gap, policy activities and other multi-element factors. It can be seen that big data technology provides a more complete supplement for axiology, which makes scientific axiology no longer focus on a specific industry field in the tradition, but regard the world as an organic whole. Based on this, with the development of big data technology, scientific problems that cannot be studied and explained at present may be solved, and finally the world will be woven into a prosperous picture with close structure and symbiosis of the Communist Party.

## **2.3 Big Data's Technology Has Strengthened the Predictability of Value**

Under the application background of big data technology, people can not only give full play to the data value and scientific value flexibly, but also sum up the reasonable logical law from the change curve of massive data, and then take big data technology as the extension of human vision and the projection of human vision, which makes the scientific research ahead of the present situation of the times. It is true that limited by objective factors such as time and space, the scientific prediction brought by big data technology is not completely accurate, but it still satisfies the vision and expectation of scientific philosophers for the future and development to a great extent. It is believed that with the follow-up development of big data's technology, the distance between scientific research and accurate prediction is bound to narrow. In order to continuously strengthen the data, the value level of knowledge [2].

## **3. The Influence of Big Data Technology on the Philosophy of Science**

### **3.1 The Great Data Technology Enriches the Research Approach of Scientific Philosophy**

For a long time, the source of knowledge has been the focus of academic debate. Objectively speaking, the academic circles mainly divide this issue into two theoretical schools, namely empiricism and rationalism. Among them, empiricism holds that knowledge is mainly produced by human cognition, while human cognition depends on sensory experience. Therefore, knowledge is created from the practice and accumulation of experience. On the contrary, the only theory holds that knowledge is congenital and always exists in the world. The process of people exploring and developing knowledge is only based on the “self-evident reason”, which is constantly excavated and discovered by strict logic.[3]

After the arrival of big data's era, it brought new thinking to the answer to the problem of knowledge source. In the huge, complex ocean of data, there must be countless elements of knowledge. Based on this, people must master the effective application technology of big data in order to excavate valuable information in the massive data resources, and then get rid of the fog layer by layer and see the original face of the world. At the same time, from the perspective of big data technology, all kinds of data are not independent individuals, but network elements with many logical relations. Only by constantly optimizing the level of big data's analysis and processing technology can people constantly discover and summarize it. According to the regular characteristics of each data, and then obtaining new knowledge, it plays an important role in promoting the progress and development of human civilization. Thus it can be seen that under the background of big data, knowledge is neither an artificial product created by cognitive experience nor an innate product waiting for people to discover step by step, but a combination of complex and diverse data and information. At the same time, this concept also reflects the change of philosophy of science in the research approach and research angle, that is, knowledge research is carried out not based on causality, but based on data connection [4].

#### **4. The Research Quality of Scientific Philosophy is Optimized by Big Data Technology**

In the era of big data, although the research and acquisition of knowledge in philosophy of science has changed, the inherent attributes of knowledge have not changed, and the laws of science are still true and reasonable. In the traditional field of scientific research, people mainly test the scientific law through induction, reduction and other practical methods, and then analyze and summarize its authenticity and universality, and finally obtain the corresponding knowledge and information. In the era of big data, people will also use induction method for data analysis and processing, and more comprehensive and persuasive [5].

If you get the right knowledge, it is inevitable that there will be a certain degree of contingency. In the era of big data, the collection, analysis, recording and processing of massive data are in the objective field of view, and there is no need to investigate its causality too much, only the results can be obtained. In this way, the subjective influence of human beings on knowledge will be obviously weakened, and the efficiency and quality of knowledge research will also be significantly improved. Therefore, based on the blessing of big data technology, the knowledge acquisition behavior of scientific philosophers is no longer a small part to see the whole, in order to generalize the subjective experience activities, but a comprehensive, objective data analysis process, so big data's scientific law is more reasonable.

#### **5. Conclusion**

In a word, the emergence and application of big data technology has brought a new dawn to the scientific research work of modern society. On the one hand, big data technology makes the data “live”, and then eliminates the lag of data value in the tradition, and at the same time endows the scientific research activities with certain prediction ability. On the other hand, big data technology has also significantly improved the quality and efficiency of scientific philosophers to explore knowledge, and made scientific research more and more extensive and accurate.

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