Application of Modern Electronic Information Technology
Relying on Time Series Data Algorithms to Advance
Technological Progress in Traditional Industries

BoLun Wang*
China West Normal University, China, 637000
*Corresponding author e-mail: BL909090@126.com

Abstract. The development of the field of electronic information technology is constantly deepening, which is of great significance to the upgrading of traditional industries and the leap forward in the level of electronic information technology. From small individuals to large countries, information security and technology levels depend on in-depth research and development in the field of electronic information technology. Keeping pace with the times and promoting their further development is the key to promoting the progress of human civilization. This paper uses the time series model to estimate it and provide ideas for its further development.

Keywords: Time Series, Modern Electronic Information Technology, Traditional Industry

1. Introduction
The rapid development of science and technology in recent years, among which the changes in electronic information technology can be described as rapid changes and now it can play a certain supporting role in various industries and the scope of use and fields are still expanding. The development of electronic information technology has not only brought great convenience to people's daily life, but also greatly affected communications manufacturing, information services and other aspects. This article mainly analyzes the application of electronic information technology through time series algorithms and the prediction and thinking of future development trends.

2. Time series algorithm analysis
2.1. Algorithm overview
A time series is a set of data sequences arranged smoothly according to time. Time series analysis is a
statistical technique that finds the changing rules of this set of data and uses it for prediction. This technology has the following three basic characteristics: it is assumed that the development trend of things will extend to the future; the data on which the forecast is based is irregular[1]. In the actual time series prediction, the data encountered will be more complicated, so we need to use more professional prediction methods to make reasonable predictions on the data. Generally, a time series contains four factors, which will affect the development and change of time series through different combinations[2].

2.2. Prediction steps
The time series prediction steps are mainly divided into four steps: (1) drawing a time series chart to observe the trend; (2) analyzing the stability of the series and smoothing it; (3) modeling and analysis of the time series; (4) model evaluation and prediction; Stationarity means that all statistical properties of a time series will not change with time. For a stable time series, it is necessary to have the following characteristics: The correlation coefficient is used to quantify the degree of correlation between variables. The autocorrelation coefficient studies the correlation coefficients of different periods in a series, that is, the time series calculates a series of correlation coefficients for the current period and different lag periods[3].

3. Development characteristics of modern electronic information technology

3.1. Intelligence
Nowadays, more common mobile device navigation technology, the use of service robots, cloud computing, big data, etc., are the embodiment of the gradually intelligent electronic information technology. The high degree of integration and development between these technologies not only improves the working efficiency of the original technology, but also optimizes its working mode to meet the daily needs of people. At the same time, it has a certain personality based on the needs of people in different fields. Service experience and technical support, so as to improve the overall social production efficiency, fast life and easy operation[4].

3.2. Networking
Judging from the development conditions of electronic information technology, its development must not lack the development of the network. It can also be said that the development medium of electronic information technology is the network. Only when the network develops better and more efficiently can we show the more advantageous side of electronic information technology. The development mode of the electronic information technology network enables us to obtain real-time data and information anytime, anywhere through wireless communication, technology, and obtains a variety of information methods, allowing us to keep pace and timeliness with information updates. An isolated island in the era of the high-speed contemporary information update, the networked information link mode is shown in the figure below.

3.3. Efficiency
Most of electronic information technology is to optimize lifestyle and work operation through contemporary network communication. The interactive communication of electronic information is
also More and more developed, the higher the speed, so the efficiency of electronic information technology is becoming more and more efficient, which not only provides a large number of users with thoughtful service guarantee, but also provides more research and development for future electronic information technology[5].

Figure 1. Network Framework of Electronic Information

3.4. Integration
The full and efficient utilization of electronic information technology enables contemporary electronic products to have higher integration characteristics. On the basis of original electronic technology, more modern information technology functions can be added to provide a holistic approach for data transmission and exchange. Progress and improvement have laid an excellent foundation for development and improvement.

4. Modern electronic technology promotes the technological progress of traditional industries

4.1. Effective use of industrial policies to guide the development of electronic information
Research and formulate policies and measures to encourage the development of industries such as smart terminal-centric industrial chains, emerging electronic component industrial chains and LED industrial chains. Establish e-commerce support funds, arrange 10 million yuan each year from the industrial development fund and set up special funds for e-commerce development. Focus on supporting enterprises registered in the concentrated area, paying taxes in accordance with the law, engaging in e-commerce activities and units providing services for e-commerce enterprises[6]. The development mode of the electronic information industry after efficient support for it is shown below.

4.2. Grasp the opportunity of industrial integration and optimize the level of project introduction
The first is to strengthen international cooperation, increase the intensity of investment promotion and introduce leading and flagship large projects with high technology and high added value. The second is to attract foreign and Taiwan-funded enterprises to set up technology development centers in concentrated areas to improve the level and level of foreign investment utilization.
4.3. Promote government-industry-university-research cooperation

The first is to carry out extensive industry-university-research cooperation and encourage colleges and universities, scientific research institutes, etc. to cooperate with enterprises to build research and development institutions and jointly undertake scientific and technological projects, to form a stable mechanism for industry-university-research cooperation and to enhance the core competitiveness of the electronic information industry. The second is to rationally structure the industrial structure with the help of a technology incubation platform.

4.4. Increase fiscal and taxation support and increase industry development momentum

The first is to guide social funds into the electronic information field through various methods such as discounted loans, research and development; the second is to further strengthen the "high-tech enterprise certification" and other efforts to keep the electronic information industry new. The stability and growth of industrial investment will increase the driving force for industrial development.

4.5. Stimulate innovation and entrepreneurship, cultivate and attract human resources

The first is to further improve the incentive mechanism including talent introduction, focus on the construction and improvement of the entrepreneurial and innovative environment and cultivate and introduce high-quality information technology human capital. The second is to guide enterprises to build information technology talent training platforms in cooperation with universities and research institutes in Chizhou and surrounding areas and increase the training of composite, practical and high-skilled talents. The third is to provide policy support and financial subsidies for managers, technicians to study, exchange and communicate abroad.

4.6. Promote the development of e-commerce agglomeration areas and change the mode

Encourage the use of buildings and workshops in the area to set up and operate e-commerce gathering areas. For the e-commerce concentration area with 10 e-commerce enterprises, annual network sales
exceeding 15 million yuan, office area exceeding 1,500 square meters and comprehensive property service and supporting service systems, if the experience is accepted that year, the centralized district management committee will give subsidy.

4.7. Encourage e-commerce enterprises to become bigger and better and accelerate the development
In accordance with the actual situation, e-commerce companies ranked in the top 100 internationally and in the top 50 domestically are encouraged to register and set up national and regional headquarters (independent accounting) in the concentrated area. After one year of operation, the management committee will grant 500,000 yuan, 20 One-time reward of 10,000 yuan.

5. Conclusion
Now is the era of deepening globalization of the world and the development of electronic information technology will be more oriented towards globalization and tiering. World globalization has allowed the world to develop into a global village and countries have strengthened their exchanges of activities. Therefore, in the future development of electronic information technology in our country, we must pay attention to the development of core technologies and strengthen our own strength.

References
[1] Institute for Information Industry; "Method And Electronic Apparatus For Comparing Tracking Object" in Patent Application Approval Process (USPTO 20200043180)[J]. Politics &amp; Government Week,2020.
[2] Providing Regulatory Submissions in Electronic Format--Certain Human Pharmaceutical Product Applications and Related Submissions Using the eCTD Specifications (Revision 7); Guidance for Industry; Availability[J]. The Federal Register / FIND,2020,85(036).
[3] Caroline Mercy Andrew Swamidoss,Krishnaveni Ramaswamy,Viswanadh Gupta Tallam. Hexaacetato Calix (6) arene as a novel extractant in the recovery of Cerium (III) by liquid-liquid extraction[J]. Materials Today: Proceedings,2020,21(Pt 1).
[4] Hron Jonathan D,Lourie Eli. Have you got the time? Challenges using vendor electronic health record metrics of provider efficiency.[J]. Journal of the American Medical Informatics Association : JAMIA,2020.
[5] Pampulevski Valentina,Giaquinto Jessica R,Rametta Mark,Toscani Michael,Barone Joseph,Nadal Juan C. Sentiment of Media Coverage and Reputation of the Pharmaceutical Industry.[J]. Therapeutic innovation &amp; regulatory science,2020,54(1).
[6] Enforcement Priorities for Electronic Nicotine Delivery Systems and Other Deemed Products on the Market Without Premarket Authorization; Guidance for Industry; Availability[J]. The Federal Register / FIND,2020,85(004).