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Human Civilization and World Modernization

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Generally, human beings emerged around 2.5 million years ago, human civilization appeared around 5500 years ago, modernization took place in 18th century. So far there is no unified definition of civilization and modernization. From the perspective of operation, civilization is the high level stage of human development, and the sum of achievements of human development since 3500 B.C.E.; modernization is a world trend, and the frontier changes of human civilization since the industrial revolution in 18th century. This paper will focus on the relation between human civilization and world modernization.

We have discussed the frontier process of human civilization, frontier process of world modernization, the evolution of modernization theories, modernization theories and human civilization process. Modernization is one kind of profound changes of human civilization since 18th century, and modernization theories describe the human civilization process since 18th Century.

Science & Technology and Modernization

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Since the 18th century, science and technology and modernization have been mutually promoting each other, because innovation is the fundamental driving force for modernization. In general, modernization relies on the scientific and technological progress, and significantly spurs the development of science and technology out of enormous demands. This paper briefly discusses the priority fields in science and technology and related forecasts in some countries, and the relations between scientific and technological revolution and modernization.

Modernization Study from 1900 to 2010

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The paper deals with the metrological analysis of the articles and books related to modernization study from 1900 to 2010. The analysis variables include the amount of articles and books, the distribution of authors, paper types, nations of authors, subjects and journals, and the growth rate and citation. It reveals the trends and space-time distribution of modernization study. Since 1960s, literatures about modernization study have begun to grow, which leads to a high tide in the first decade of the 21st century.

Regional Modernization in the World

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If regions are defined as different regions or different geographic parts of a country, regional modernization is a component part of national modernization. Without regional modernization, there will be no national modernization. This paper presents the basic facts and important inspirations of regional modernization in 18 countries, regional modernization theory, and the road of China's regional modernization, etc.

Policy Study on the Regional Modernization

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In past 200 years, some regions have gone up and became advanced regions, some regions have gone down and became developing regions, and others kept their position. Why and how?

This paper focus on the policy study on the regional modernization, and how to promote the regional modernization. (1) Evaluation of regional modernization, to make a diagnosis for the region. (2) Strategy of regional modernization, to give a prescription for the region. (3) Measures of regional modernization, to provide the recommendation for the region.

World Modernization outline: 1700-2100

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Starting from the Industrial Revolution in 1760s, the world modernization has developed for about 250 years. If we set the end at late 21st century, the world modernization will have lasted 340 years. In the past two and a half centuries, the formation, development, transformation and interaction of modern civilization and countries create the history and current situation of the world modernization; in the 21st century, the world modernization will continue its improvement and become diversified. We try to give “an outline of world modernization”, intended to depict a digital panorama sketch of world modernization by briefly analyzing the historical course, basic principles and outlook of world modernization. This paper includes the facts and outlook of world modernization, the scientific principles of world modernization, and the evaluation of world modernization.

Principles and Methods of Modernization Science

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In October of 2010, *Modernization Science: Principles of National Advance* (He, 2010) was published by Science Press, in January of 2011, *China Modernization Report 2011: Introduction to Modernization Science* (He, 2011) was published by Peking University Press in China, and in March of 2012, *Modernization Science: The Principles and Methods of National Advancement* (He 2012) was published by Springer in Germany. This paper includes the three parts that come from the overview of CMR 2011. It discusses the basic concepts and basic principles of the Modernization Science, and the practical application of the Modernization Science.