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The "*Ubiquitous Subject-Ubiquitous Connection-System*" Analysis Framework for the Innovation Environment in the Context of Ubiquitous Network

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Abstract

Innovation is not only the soul of a nation's process, but an inexhaustible motive force of a nation's prosperity. New requirements are made under the context of ubiquitous network. According to the characteristics of the ubiquitous network, the "*ubiquitous subject-ubiquitous connection-system*" analysis framework for the innovation environment in the context of ubiquitous network is made and the suggestions of the cultivation of innovation environment in the context of ubiquitous network are given.

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Keywords: Ubiquitous Network; Innovation Environment; Ubiquitous Subject; Ubiquitous Connection; System; Framework;

1. Introduction

Innovation has become the strongest voice nowadays. In 1995 at the National Science and Technology Conference Comrade Jiang Zemin pointed out: "Innovation is not only the soul of a nation's process, but an inexhaustible motive force of a nation's prosperity." During Comrade Hu Jintao's whole speech at the 50th Anniversary of the Chinese Association for Science, the word of *innovation* has been mentioned 78 times. He emphasized that the atmosphere of everybody focusing on, supporting and participating

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innovation should be created and the enthusiasm and vigor of innovation should be stimulated. It is a time when the new has been replacing the old and the competition is fierce. No innovation means death. Innovation is the driving force and the foundation of success.

Innovation requires the environment, innovation needs atmosphere. The seventeenth Congress report stressed that innovation environment should be further encouraged to create so the creative wisdom of the whole society could be stimulated and innovative talents could appear in great numbers. To establish an innovation atmosphere is of great urgency. In a way, innovation environment is more important than innovation investment [1].

With the width and depth of the internet application, ubiquitous network increasingly becomes a reality and Ubiquitous Network Society (UNS) has gradually come into being. In this context, it is practical to research on the characteristics of the innovation environment and suggestions on the cultivation of innovation environment.

2. Literature Review

The term of “innovation” is first coined by Joseph Schumpeter in the book *Theory of Economic Development*. Given the relative ambiguity of the concept of innovation, Wu Xiaobo and other people [3] studied the classification of innovation. For innovative research, the current mainly focuses on technological innovation, management innovation, and system innovation and so on.

Research on innovation environment is one of the focuses of innovation research for the international academy in the 1990s. The theory of innovation environment has been put forward by the scholars of the European Study Group (GREMI) during the research course of the high-tech industry zone. Camagni [4] defined the innovation environment "in a specific area, a series of informal or major complex network of social relations, often decides a specific external image and a specific internal representation and sense of belonging. Through collective learning process, the local innovation capacity is to be enhanced. "

Aydalot[5] described the innovation environment as the regional system of innovation, rules and practice system which led to innovation, which coordinated the various actors in the regional composition of the input-output network. And the U.S. economy sociologist Granovetter's embeddedness thinking is similar. These scholars emphasize innovation network of innovation is rooted in a particular environment. Maillat[6] thought that innovation environment referred to technology, culture, skills, labor market and other non-material social and cultural factors outside the enterprise. Storper and other scholars believed that the environment was the system to promote innovation and regional innovation systems, rules and practices. It stressed that the producers (enterprises), researchers, politicians, and other enterprises formed complex Network relationships to promote innovation[7]. Although the definitions and interpretation of innovation environment are different, but they bear the following basic features: (1) regional innovation environment; (2) systematic innovation environment; (3) the complexity of the innovation environment; (4) To support the dynamic nature of the innovation process.

3. The Characteristics of the Ubiquitous Network

Information and communication technology enables society gradually into the "any time, any place, any person, any thing" to enter the online world of ubiquitous network society[8,9]. The concept of "Ubiquitous" can be traced back to the 70s of last century [10], but until the 90s of last century, the United States Mark Weiser put forward the concept systematically[11]. The United Nations in December 2003 in Geneva Summit global society (WSIS), provided an international discussion opportunity of the "ubiquitous network" for the first time. "Ubiquitous network" stepped on the world stage formally and began affect information technology strategic orientation of the world[11].

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