

## OPTIMIZATION OF THINKING LOGIC OBSTACLE ANALYSIS IN COMPUTER TECHNOLOGY ALGORITHM SIMULATION EXPERIMENT

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**Background:** Thinking is the reflection of human brain's indirect generalization of objective things and the highest form of human cognitive activities. The materials obtained from perception form concepts through brain analysis, comparison, synthesis, abstraction and generalization. The whole process is called thinking. The process of normal thinking is purposeful, coherent and logical. The specific practice of thinking can get a result and correct the result. Thinking is a pathological state that lacks its inherent logical connection and cannot be understood by normal people, which is called thinking logic disorder. Thinking disorder belongs to a group of important symptoms of mental patients. Because the symptoms of such patients are mainly expressed through language, we can judge whether they have thinking disorder through the expression of patients. At present, the specific manifestations of thinking disorders in clinic mainly include four categories: thinking speed disorder, thinking form disorder, thinking control disorder and thinking content disorder. This classification is suitable for clinical diagnosis, but it focuses on the research of schizophrenic thinking disorder, and pays less attention to organic encephalopathy or other mental thinking disorders. College students should get rid of their own logical thinking obstacles, such as the inability to accurately grasp the connotation of concepts, the misjudgment of reasoning premise, the inversion of cause and effect and so on. There are many different classifications of thinking disorders, including thinking speed disorder, thinking form disorder, lack of purpose orientation, pathological symbolic thinking and so on. Patients occasionally feel that their thinking does not belong to them, that their thinking activities lose their autonomy, or that they are controlled by external forces, such as thinking deprivation, thinking insertion, thinking dissemination and other experiences. People's normal thinking activities have their corresponding introspective experience and can control their own thinking activities. If the thinking activity is abnormal and changes the normal thinking characteristics, it can be called thinking obstacle. With the continuous development of computer technology, machine learning has been widely used in various fields in recent 20 years. In particular, deep learning has achieved unprecedented success in dealing with tasks that need human perception, and natural science is one of the highest achievements of human wisdom. Therefore, using Machine Learning (ML) to solve natural science problems has also become a hot spot in AI circles in recent years. However, the virtual simulation experiment of computer technology algorithm still needs to be further improved. In various virtual experimental environments realized by virtual reality technology, the experimenter can complete various predetermined experimental projects as in the real environment, and the learning or training effect is equal to or even better than that obtained in the real environment. Virtual simulation experiment is an interactive environment for creating and guiding simulation experiments, which is composed of simulation programs, experimental units, tools and references. Users can expand and enrich the laboratory by adding new objects, establishing new experiments and transforming them into hypertext files.

**Objective:** In the research of computer technology algorithm simulation and optimization, university laboratories need to focus on the problem of thinking logic obstacles in the process of computer technology algorithm simulation and optimization of college students. The purpose of this study is to explore the impact of college students' computer technology algorithm simulation and optimization on college students' thinking logic obstacles.

**Research objects and methods:** In order to verify the effectiveness of computer technology algorithm simulation optimization teaching in improving patients with thinking logic disorder, 200 students with thinking logic disorder in colleges and universities in a region were selected as the research objects. The subjects were randomly divided into experimental group and control group, with 100 people in each group. The experimental group was given computer technology algorithm simulation optimization teaching. The control group used routine teaching. This paper analyzes the effect of computer technology algorithm simulation optimization teaching to improve students' thinking logic obstacles.

**Research design:** This study uses the self-designed "college students' thinking logic disorder diagnosis scale" to evaluate students. The scale is divided into qualitative and quantitative, with a full score of 10. The lower the score, the healthier it is.

**Methods:** The relevant data were calculated and counted by Excel software and SPSS20.0.

**Results:** After teaching, the total score of thinking disorder in the experimental group decreased significantly ( $P < 0.01$ ), while there was no significant change in the control group ( $P > 0.05$ ).

**Conclusions:** In terms of simulation hardware, digital computers have been used more than analog computers since the 1960s. Hybrid computer system once stagnated in the 1970s and has a development trend since the 1980s. Due to the development of minicomputers and microprocessors, as well as the

adoption of pipeline principle and parallel operation, there has been a new breakthrough in the improvement of digital simulation operation speed. In terms of simulation software, in addition to further developing interactive simulation language and more powerful simulation software system, another important trend is to combine simulation technology with artificial intelligence to produce simulation software with expert system function. The scale and complexity of simulation models and experimental systems are growing, and the research on their effectiveness and confidence will become very important.

**Table 1.** Comparison of scale scores between the two groups before and after intervention

Group	Before teaching	After teaching
Experience group	3.20	2.71*
Control group	3.21	3.125
<i>t</i>	0.395	2.863
<i>P</i>	0.807	0.021

Note: Comparison of this group, \*  $P < 0.05$ .

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## EVALUATION AND CONSTRUCTION OF BUSINESS ENVIRONMENT FOR THE DEVELOPMENT OF PRIVATE ECONOMY FROM THE PERSPECTIVE OF SOCIAL PSYCHOLOGY

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**Background:** Social psychology is a thinking pattern formed by subjective and subtle evolution. For example, people's understanding of people in a certain country, even if they have not been there or seen it, will think of a certain model, or even biased and extreme elements. For example, in the eyes of many Europeans and Americans, China is still what it was before the reform and opening up, even in the Qing dynasty. Social psychology refers to the whole social psychological state that permeates the society and its groups in a specific period of time. It is the sum of the emotional tone, consensus and value orientation of the whole society. People's general feeling and understanding of social phenomena is a form of social consciousness. It is reflected in people's general life emotions, attitudes, remarks and habits. Social psychology is spontaneous and messy. It is a primary and intuitive reflection of social life. People's social psychological status ultimately depends on the reality of social life, which is directly formed by the stimulation and understanding and feeling of various signs of real life. Social psychology promotes a certain social atmosphere. Ideological system and social psychology are two categories of social consciousness in the field of historical materialism. The former is the advanced form of social consciousness, and the latter is the primary form of social consciousness. This primary form is the basic premise for the formation of ideological system. Due to the different subjects of social consciousness, social psychology is divided into individual psychology and group psychology.

Business environment is an important factor for the healthy growth of private enterprises and the development of private economy. The evaluation and construction of business environment of private economy is of great significance to the development of private economy. In order to attract domestic and foreign investment, the Chinese government has promoted the introduction of many measures to optimize the business environment. Some scholars analyzed the characteristics and challenges of China's competitiveness, the advantages and disadvantages of the macro environment, internal and external challenges and measures to enhance competitiveness. Some scholars have also constructed the tax business environment index system and found that the tax environment shows the characteristics of balanced regional development but low enterprise satisfaction. The research also shows that in a better business system environment, the higher the proportion of time spent by enterprises on production management compared with foreign public relations entertainment, which provides policy enlightenment for improving the policy environment. Generally speaking, the current research mostly evaluates the state-owned business environment and provides relevant suggestions from a certain angle or based on a certain report, and there are few results of multi angle analysis.

**Objective:** With the slowdown of global economic development, the business environment for the development of private economy needs to be improved. Managers of private enterprises often have negative emotions such as irritability and anxiety, and even cause psychological diseases such as anxiety and