

2.2.1. Human and Artificial intelligence in the intellectual achievements of intelligence alienation.

The advent of Artificial intelligence shows that there is an intelligent alienation relationship between human beings and their own intellectual achievements. People's intellectual achievements do not have to be completely produced by people, but can be produced by Artificial intelligence, thus creating a unity of opposites between people and their intellectual achievements. For example, a general-use language algorithm developed by the Open AI team in San Francisco can be trained through massive amounts of text on the web to perform lip recognition, response counseling and other very practical tasks. Although these technologies are not yet mature, the memory function, speed of information processing and storage capacity of Artificial intelligence are far higher than that of human beings, so many of the intelligence results that Artificial intelligence produces with natural logic may also be higher than human intelligence results. But while the intellectual achievements produced by Artificial intelligence bring a lot of material wealth, it also causes the poverty of people's spiritual life. In the face of the powerful knowledge and information collection and processing capacity of Artificial intelligence, people are more and more inclined to "sit on their hands and reap the benefits", and more and more lack of inquiring spirit and rational thinking. As a result, the discriminating ability, innovation ability and aesthetic ability of human brain gradually deteriorate, plus the increase of people's free time and the human nature of greed and entertainment, so that people inevitably involved in the trend of pan-entertainment. As Postman pointed out, the politics, religion, education and other aspects of the current society are willing to become the servants of entertainment, and they keep turning silently, finally causing the emptiness of people's spiritual world [1].

2.2.2. Human and Artificial intelligence in the intellectual work of intelligence alienation.

In 2007, the concept of "brain-like intelligence" was officially launched. It aims to achieve the "intelligence shown by highly evolved biological brains", which makes the connection between human and Artificial intelligence even closer. When Artificial intelligence technology reaches the stage of brain-like intelligence development, people's mental work is not limited to the brain organs, but can also be carried out in the "brain-like" internal work, so there is a dissimilated relationship between the two. And with the continuous development of technology, the brain in mental work better than the human brain is gradually highlighted. Although human brain has been gradually optimized and upgraded in terms of its structure and information processing mechanism, it is still subject to physiological limitations. Unlike brain-like intelligence, it can overcome the limitations imposed on human brain and continuously construct highly collaborative cognitive mechanisms. So much of the mental work that was previously done by humans has been entrusted to brainlike intelligence.

This means that the ability to think will no longer be the exclusive preserve of humans. Just as machines surpass humans in physical strength, Artificial intelligence is likely to surpass humans in "brain power," and humans will become increasingly dependent on it. From Lamarckian theory to the theory of obsolescence, we can predict that the human brain in this environment has a tendency to degenerate [2]. Then, people will change from actively handing over mental work to Artificial intelligence to having to hand over mental work to Artificial intelligence. Furthermore, the social division of labor, especially the vertical division of labor, will be reconstructed accordingly [3]. In order to pursue surplus value, more capital is invested in the technology industry at the top of the division of labor, which further intensifies the industry monopoly and leads to the inability of enterprises and workers at the bottom of the society to enter this industry. It will eventually lead to the widening of the gap between the rich and the poor, and even lead to the differentiation and fracture of the social structure.