The operator directly observes the digital twin organs mixed together in the patient's body through AR see-through display, and interacts with them in real time in the visualization interactive design environment. Based on the mapping between digital twin organs and real organs, this operation is just like open surgery, which can greatly reduce the mental load caused by image guidance.

Results: Digital twin, augmented reality and other technologies can be used to realize perspective display, real-time visualization interactive operating environment, mapping and mixing of virtual and real organs, so that the operator can operate the assisted puncture robot in a mode close to natural visual perception, which greatly reduces the mental overload of the operator in two-dimensional image guidance.

Conclusions: The image guided operator's mental load of the assisted puncture robot human factor optimization improvement method has changed the traditional image guided puncture operation mode and concept, reduced the operator's mental load, and made the operator become a "designer". They can use all their thinking abilities to carry out personalized diagnosis and surgical design, and can greatly improve the puncture effect.

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RESEARCH ON THE FINANCIAL MARKETS INTERACTION UNDER THE IMPACT OF COVID19 SOCIAL PANIC PSYCHOLOGY BETWEEN CHINESE AND AMERICAN

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Objectives: Under the influence of COVID-19 panic, the financial markets in China and the United States experienced frequent and regular fluctuations. To study the co-activity of Sino-US financial markets under the background of Sino-US trade frictions and COVID-19 epidemic, this paper studies the special impact of Sino-US trade frictions and COVID-19 epidemic panic on the co-activity of Sino-US financial markets based on empirical mode decomposition model and Copula model.

Methods: This paper takes the return series of Shanghai Stock Index, Dow Jones Index and US Dollar Index in the past four years as the research object, and synthesizes the high-frequency return series of the three indexes based on empirical mode decomposition model. On this basis, the Copula model is established to analyze the linkage structure of Chinese and American financial markets.

Results: Chinese and American stock markets were positively correlated most of the time, and the fluctuation range of the correlation coefficient was small. After trade frictions and the outbreak of COVID-19, the co-activity of Chinese and American stock markets has shown an upward trend. During COVID-19 epidemic panic, the change trend of the co-activity stock markets increased first and then decreased, showing an inverted "U" shape. The Chinese stock market and the American exchange rate market show negative correlation in most of the time. Before the Sino-US trade friction began, China's stock market and dollar index were less affected by this, and the high frequency return series of Shanghai Stock Index and dollar index showed weak negative correlation. When the Sino-US trade friction intensifies, the dynamic correlation coefficient between Shanghai Composite Index and US Dollar index decreases, and the occurrence of Sino-US trade conflict makes the negative correlation between Shanghai Composite index and US Dollar index slightly larger. During the global outbreak of COVID-19, the negative correlation between Shanghai Composite Index and US Dollar index was further increased, and the fluctuation of the correlation coefficient was aggravated.

Conclusions: During the Sino-US trade frictions and COVID-19 pandemic, the return series of the Chinese and US financial markets all showed abnormal volatility, and the volatility trend had certain similarities. The high frequency return series of Shanghai Stock Index, Dow Jones Index and US Dollar Index obtained by empirical mode decomposition and synthesis are highly similar to the original return series.

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JOSEPH CONRAD AND GRAHAM GREENE'S FASCINATION ON THE CONGO RIVER: FROM THE PERSPECTIVE OF EMOTION REGULATION

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Background: The Congo River is located in Africa. It is the second-longest river in Africa (after the River Nile). It is also the ninth-longest in the world. Since its discovery, the River has attracted the attention of explorers, writers and historians alike. The River, as the symbol of nature, plays the role of soothing people's heart and curing their wounds.

Subjects and Methods: Joseph Conrad and Graham Greene are one of the writers, who are fascinated by the River. They both travel up the River. Based on the travels along the River, they both respectively write two novels: *Heart of Darkness* and *A Burnt-Out Case*. Conrad's *Heart of Darkness* is published sixty years earlier than Graham Greene's *A Burnt-out Case*. There are two methods: the first one is the comparative method, and the second one is close reading. Based on the detailed reading, the paper compares the author's intentions of writing the two novels from the following aspects, such as the setting, the major characters of them, etc. Because the process of writing is a cathartic one. Through writing the two novels, the authors express their emotions and sympathy toward the third-world people.

Results: The two authors share rich personal travel experiences, the same fascination and passion for Congo River. There are striking similarities in the choice of the setting, the narrative perspective, the characterization of Marlow, Kurtz and Querry, and denouements in both novels. The descriptions of pale women characters of the two novels are also alike. The two authors also have differences. The first one is that they live in different periods of imperialism. Joseph Conrad lives in the flouring period of colonialism. He believes that non-westerns are backward and are needed to be saved by the Westerns. Graham Greene lives in the period of colonialism, which is in rapid and ungraceful retreat. Greene is against colonialism and points out that non-westerns should have rights to decide and rely on their own. Though the two authors have different descriptions on the same river, their purposes are the same: the River owns mystic power of curing people's inner heart and gives peace and happiness to them.

Conclusions: The authors dealt with different periods of colonialism, and they both shows sympathy as well as criticism to the Third-World. Both Joseph Conrad and Graham Greene have psychological obsessions on the Congo River and their psychological obsessions are reflected in their two novels. Though the settings of their respective novel are the Congo River and they sympathize the poor, the suffering and the oppressed of the third-world people, they have slightly different opinions on colonization. By writing about the Congo River, the two authors can vent their inner emotions, satisfy their psychological needs, dilute their anxiety and improve their happiness.

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RESEARCH ON GOVERNANCE MECHANISM OF UNIVERSITY NETWORK PUBLIC OPINION BASED ON PSYCHOLOGICAL DISTANCE IN THE ERA OF MEDIA INTEGRATION

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Objective: At present, we are in a special period of social transformation. The main social contradictions have changed, and individual personality psychology has also undergone profound changes. Due to the special identity of colleges and universities, the network public opinion of colleges and universities has a profound realistic social psychological basis and has become an important part of public opinion that cannot be ignored. The formation and spread of network public opinion in colleges and universities is a kind of psychological activity of college teachers and students, which is inseparable from the psychological distance. Understanding the main factors that affect the governance of online public opinion in colleges and universities will help colleges and universities effectively warn and govern online public opinion, and also help to cultivate the self-esteem, self-confidence, rational peace, and positive mental health of college teachers and students.

Methods: In recent years, the network public opinion of colleges and universities has increasingly become the focus of the network public opinion camp. In view of the fact that the spread of online public opinion is a subjective psychological change, and the influencing factors of this psychological change are relatively complex, which are ignored by most current online public opinion researchers, this study makes an in-depth analysis of the spread of public opinion based on the theory of psychological distance. As an important part of public public opinion, online public opinion in colleges and universities has a profound realistic social psychological basis, and there are also social problems such as imperfect governance system, incomplete diversified governance pattern, and imperfect monitoring and early warning system. Based on this, this paper analyzes the governance of university network public opinion from the perspective of psychological distance, and constructs the governance mechanism of university network public opinion from the aspects of improving the monitoring system, improving the research and judgment mechanism, and improving the coping ability.

Results: The psychological distance in the governance process of college network public opinion can be transformed into the psychological gap between network information and college teachers and students. The new communication pattern brought about by media integration has brought many new development opportunities and challenges to the governance of college online public opinion in the epidemic and post epidemic period. How to effectively use the background characteristics of media integration to improve the governance of college online public opinion, build a scientific and standardized governance mechanism, enhance the ability of colleges and universities to solve the risks of online public opinion, and build a healthy psychological state of college teachers and students are important issues to be solved in this paper.

Conclusion: The research on the governance mechanism of online public opinion in colleges and universities based on the perspective of psychological distance is an effective research on the use of financial media carriers to carry out