

Method Strategies for Solving International Sports Intellectual Property Disputes through Chat GPT System

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Abstract: The Chat GPT system can provide valuable theoretical knowledge, legal basis, and relevant response strategies for resolving international sports intellectual property disputes. However, there are still incomplete explanations in terms of basic theories, professional knowledge, case inquiries, and even contradictory conclusions. The aim of this study is to make up for the shortcomings of the Chat GPT system in handling international sports intellectual property disputes through comparative analysis methods, establish the basic concepts that should be followed in international sports intellectual property disputes, clarify the professional theoretical knowledge in international sports intellectual property, point out the solution path for international sports intellectual property disputes, and ensure the fair resolution of international sports intellectual property disputes, And promote the healthy development of international sports industry.

Keywords: International, Sports intellectual property, Comparative analysis, Difficulties, mitigate.

1. Introduction

As is well known, artificial intelligence has undergone continuous development and improvement, and its application fields can be described as increasingly widespread, such as competitive sports [1], national fitness [2], intellectual property [3] and other fields. At the same time, due to the possibility of artificial intelligence creating danger, many scholars have proposed requirements for strengthening supervision of artificial intelligence [4]. Undoubtedly, artificial intelligence has significant social and practical significance. It can replace humans in simple and repetitive tasks, as well as engage in various physical labor in hazardous environments, such as mines, deep wells, high-altitude areas, and even engage in complex mental tasks such as code writing, copywriting, and current affairs commentary.[5]However, despite this, artificial intelligence cannot completely replace humans in the face of various complex social problems and even some extremely labor-intensive scientific research topics. As scholars have pointed out, "There are two classic ways of thinking in artificial intelligence - the violent method and the training method - which cannot effectively deal with uncertainty problems. Therefore, artificial intelligence still faces fundamental scientific challenges in the field of uncertainty problems, and there are also significant opportunities." [6] From this assertion, it can be seen that although artificial intelligence can play an important role in helping the development of human society, Even in the uncertainty of human social development, artificial intelligence may play an immeasurable role in decision-making, but it is not omnipotent.

Since the Chat GPT system is one of the most important scientific inventions for researchers in the field of artificial intelligence, exploring the solution to international sports intellectual property disputes through this system is an important way. The author utilized this system to explore the relevant theories, mechanisms, and paths in international sports intellectual property disputes. During this process, the

following characteristics of artificial intelligence were once again demonstrated: firstly, it was verified that the Chat GPT system has powerful operational functions for information collection and knowledge integration; Secondly, it was discovered that the Chat GPT system still has an insurmountable professional knowledge blind spot in the field of sports intellectual property. So, how can we leverage strengths and avoid weaknesses, leverage the information processing function of Chat GPT system, and then explore ways to solve international sports intellectual property disputes? To address such issues, this study attempts to use the Chat GPT system combined with comparative analysis to deeply explore the theoretical basis, legal basis, and relief path of sports intellectual property rights, gradually correcting the cognitive bias of the Chat GPT system, and ultimately forming an effective problem-solving approach for international sports intellectual property disputes. Ultimately, it can ensure the fair resolution of international sports intellectual property disputes and create a healthy environment for the development of international sports.

2. Difficulties in Solving International Sports Intellectual Property Disputes through the Chat GPT System

2.1. Relatively limited professional theoretical knowledge

Professional theoretical knowledge is the theoretical foundation for the existence and development of a profession. Resolving international sports intellectual property disputes inevitably requires mastering the basic theoretical knowledge of sports intellectual property and clarifying the core points of the basic theoretical knowledge of sports intellectual property. Otherwise, it will be difficult to provide a reasonable solution for resolving disputes over international sports intellectual property rights. However, the basic theoretical

knowledge of sports intellectual property provided by the Chat GPT system is not very ideal. Is sports intellectual property equivalent to intellectual property of sports? "The Chat GPT system believes that they are not exactly the same, but there is a certain connection. The answer has no questions, but the following explanation contradicts the basic theoretical knowledge of the profession, That is to say, the system believes that: Sports intellectual property refers to various types of knowledge, technology, skills, experience, trade secrets, and other related intellectual property rights in the field of sports, including the rules, systems, organization, management, and other aspects of sports competitions. The intellectual property rights of sports are more extensive, including not only various patents, trademarks, copyrights and other legal protection rights involved in sports competitions, but also other intellectual property rights related to sports, such as sports marketing, brand promotion, sponsorship contracts, and other aspects of intellectual property rights. In short, in the modern sports industry, both sports intellectual property and intellectual property of sports play a very important role, and they are of crucial significance for protecting the interests of the sports industry and promoting its sustainable development. However, asking the same question again, The Chat GPT system provides the opposite explanation: Sports intellectual property refers to various forms of intellectual property related to sports, including but not limited to sports brands, various trademarks, patents, copyrights, domain names between sports competitions, etc. It can be said that sports intellectual property refers to all intellectual property related to sports. Intellectual property of sports is a relatively narrow concept, mainly referring to the skills and experience of sports athletes, coaches, and teams, such as training methods, tactics, and other aspects intellectual property rights. Therefore, although both sports intellectual property and intellectual property of sports are related to sports, their specific connotations and scope are different. Obviously, the second answer captured the core points of the sports major. As another example, "Can sports technology be patented?" The Chat GPT system believes that it can be patented, but as long as it meets the patent requirements. When asked the question again, The Chat GPT system also believes that: sports technology itself cannot obtain patent protection. According to relevant international laws and regulations, only inventions that are innovative, practical, and feasible can obtain patent protection. Sports technology is not an independent invention that can be described as a technological solution, and therefore cannot obtain patent protection. Of course, certain instruments or equipment used in sports may be eligible for patent protection, such as some specialized training equipment. Undoubtedly, obtaining invention patents for sports technology will hinder the development of sports technology, which is not allowed by the development of sports itself. And sports technology is the method itself, not the method invented by other products. So giving it an invention patent is limiting the application of technology and methods.

In summary, the Chat GPT system can provide rich basic information knowledge in the field of intellectual property, and can provide certain theoretical guidance for resolving international sports intellectual property disputes. However, there are some shortcomings in the specialized knowledge field of sports intellectual property, especially in the interpretation and explanation of sports professional theories.

2.2. Logic disorder of international rule of law concept

Philosophically speaking, concept refers to the high-level existence that regards the spirit as the object of human thinking, reflecting people's cognitive understanding of the objective world and the purpose of human behavior. The concept of the rule of law is the spiritual pillar that guides humanity to live a rule of law life. [7] Undoubtedly, the governance of international sports intellectual property disputes inevitably needs to follow the basic rule of law concept recognized by the governance subjects in the world, and this concept should always be embedded in international norms, rule of law rules, and principles of the rule of law. However, in the knowledge and information reserve of the Chat GPT system, there is no relatively systematic and complete concept of rule of law to follow, and this concept still needs to be carefully searched and carefully extracted from the knowledge information it provides.

Regarding the legal concept of resolving international sports intellectual property disputes, the Chat GPT system did not provide accurate answers, and the results of several inquiries were similar. For example, The system believes that: "The concept of the rule of law for international sports intellectual property rights is to protect sports intellectual property rights through legal means, and strengthen international cooperation to maintain the development and innovation of the global sports industry, so as to promote the inheritance and development of sports culture. Under this concept, governments of all countries should strengthen legislation, improve the intellectual property protection system, and strengthen international cooperation to jointly combat violations of sports intellectual property rights. At the same time, sports organizations and enterprises should comply with relevant laws and regulations, protect our intellectual property rights, and actively participate in international cooperation to compete and innovate in a healthy, just, and legal sports industry environment. Given the above reasons, the author draws on the recognized legal concepts of the Chat GPT system, such as cooperation, rule of law, fairness, impartiality, sustainability, and development, to continue consulting and draw a relatively positive conclusion, namely, the basic concepts of the rule of law for international sports intellectual property rights include cooperation, rule of law, fairness, justice, sustainability, and development. These concepts are aimed at ensuring effective protection and management of various sports intellectual property rights, so that the sports industry can develop healthily. Firstly, cooperation refers to strengthening collaboration and exchange among all parties, and jointly promoting the process of international sports intellectual property governance. This includes international organizations, government departments, private enterprises, and Collaboration with various stakeholders such as professional organizations. Secondly, the rule of law refers to the maintenance and protection of sports intellectual property rights in accordance with international law and domestic regulations. At the international level, countries should follow international agreements and standards, formulate corresponding laws and policies to protect the rights and interests of intellectual property. Fairness and impartiality refer to the protection of the interests of all parties in sports intellectual property management, which should not only reflect the equality of rights but also demonstrate the impartiality of law

enforcement. This means that management agencies should not give special or unfair treatment to a particular party, but should follow the principles of fair competition and fair dispute resolution. Sustainability and development refer to the emphasis on sustainability and development in the process of protecting and managing sports intellectual property rights. This not only includes the protection of intellectual property rights, but also encourages innovation and development, laying the foundation for the long-term development of the sports industry. In short, the basic concept of international sports intellectual property governance is to promote the protection and management of various sports intellectual property rights, while ensuring fairness and justice of all parties' interests, and emphasizing sustainability and development

In addition, the principle of rule of law is also a very important part of the implementation of the concept of rule of law in international sports intellectual property rights. It is not only the standard followed by international sports intellectual property legal norms, but also the fundamental embodiment of the legal concept of international sports intellectual property. However, during the consultation process of the Chat GPT system, a more accurate answer still cannot be obtained. This indicates that in the logical mechanism of the governance concept of international sports intellectual property rights, human intervention and discrimination are still needed.

2.3. Obtaining the facts of the case requires some effort

The facts of international sports intellectual property disputes are not only an important reflection of the development level of international sports industry, but also a true reflection of the protection of sports intellectual property rights of relevant rights subjects. Therefore, by collecting and analyzing cases of international sports intellectual property disputes, one can gain insight into the current development situation, value status, and protection mechanisms of intellectual property in the international sports field. However, the Chat GPT system cannot directly and conclusively discover various real cases. Of course, Chat GPT system can provide some methods and paths to find such cases, such as CAS, World Intellectual Property Organization, WIPO and other institutions. By consulting the CAS of the International Court of Arbitration for Sport, some cases related to sports intellectual property can be found, but the content is relatively limited. The main sports intellectual property disputes involved are sports logos, sports naming, and other content.[8] In fact, the developed countries of High-performance sport in the world generally have some foreign-related sports intellectual property disputes, which are mostly related to sports stars, stadiums, etc., such as China's "Jordan Sports Case" [9], "Shaolin Monastery Trademark Case" [10]. In summary, the Chat GPT system does not directly provide relevant case facts, and in order to obtain corresponding information, it is necessary to collect and organize it through other channels. However, despite this, the system can still provide indirect assistance.

3. Analysis of the Method Dilemma of Chat GPT System

The Chat GPT system is the crystallization of human intelligence and the most dazzling major innovation

achievement of current scientific researchers. It will also have a significant driving role in the development process of human society. However, there is still a lack of ability in the logical thinking of resolving international sports intellectual property disputes. The reason for this is closely related to the operating mechanism of the Chat GPT system. After consulting materials, it was found that in terms of operating mechanism, the Chat GPT system adopts a logical reasoning mode with a three-layer structure of reality layer, data layer, and knowledge layer. Specifically, the reality layer is a variety of concrete representations of the real world, which can be described as unrestrained in changes; The data layer is an operational mechanism that mainly collects and extracts data from the reality layer; The knowledge layer is the highest level, also known as the reasoning and decision-making layer. It is built on the foundation of the reality layer and the data layer. Structurally, the reality layer, as a concrete representation, is variable or infinite, while the data layer is abstract and fixed. That is, the concrete representation in the real layer may exceed the logical reasoning scope in the data layer. So, the knowledge layer formed by a fixed and unchanging data layer and a flexible and ever-changing reality layer - its inference results will inevitably not be completely certain. This also means that no matter how powerful the AI Chat GPT system is, its decision feedback mechanism does not mean it is completely correct or without any flaws.

In summary, artificial intelligence is the creation of human intelligence and the development of human intelligence tools. Although there have been cases of humans losing to "Alpha Dogs" and "Deep Blue" in artificially created environments. But the algorithmic mechanism of artificial intelligence is not its transcendence of human intelligence, nor is it the innovative development of artificial intelligence itself. It is only the operational skills bestowed on artificial intelligence by humans. On the contrary, this is an innovation in the application of human knowledge, and humans are constantly innovating and developing. Therefore, the artificial intelligence Chat GPT system is not omnipotent and expected. So, in order to fully utilize the value and function of the Chat GPT system in international sports intellectual property disputes, it is necessary to combine other methods. The author will explore the combination of artificial intelligence Chat GPT system and comparative analysis method to explore ways to solve international sports intellectual property disputes.

4. The Operational Mechanism of Comparative Analysis Method for Chat GPT System

The Chat GPT system has theoretical blind spots in sports intellectual property professional knowledge and logical dilemmas in legal governance concepts. To improve the work efficiency and application value of the Chat GPT system, comparative analysis can be combined. Specifically, there are four main forms of combining the Chat GPT system with comparative analysis methods, and researchers can choose appropriate comparative methods based on research needs and difficulty levels. Firstly, self comparison. Self comparison refers to repeated questioning of the same question, which can be used to explore whether the Chat GPT system provides further knowledge or opposite theoretical knowledge, thereby confirming the accuracy and

effectiveness of professional theoretical knowledge; Secondly, reverse comparison. Reverse comparison refers to the questioning of the question from both positive and negative aspects, aiming to obtain accurate knowledge information through positive and negative comparison; Thirdly, analogical comparison. Analogous comparison refers to the exploration of solutions to research problems through consultation on similar issues. It is an important means adopted in situations where repeated questioning and positive and negative questioning cannot obtain accurate answers; Fourthly, comprehensive comparison. This comparison method is suitable for solving multi-layer logic problems. Researchers investigate the hierarchical classification of problems and then explore their solutions one by one. During this process, methods such as repeated questioning, positive and negative questioning, and similar questioning can be combined.

Table 1. Method and Purpose of Comparative Analysis

Comparison Method	Comparison Purpose
Self comparison (repeated questioning)	Used to explore further knowledge reserves of the Chat GPT system or whether there is knowledge content of opposite theories.
Reverse comparison (positive and negative questioning)	Verifies the accuracy of Chat GPT system knowledge and other relevant knowledge content.
Similarity comparison (related inquiry)	Searches for relevant or similar theoretical knowledge to compare and support research questions.
Comprehensive comparison (classification questioning)	Explores relevant knowledge of Chat GPT according to established categories, and combines repeated questioning and positive and negative questioning to ensure the certainty of knowledge acquisition.

In summary, in order to fully leverage the effectiveness of the Chat GPT system and explore solutions to international sports intellectual property disputes, combining comparative analysis is an effective path. This research method progresses in the upper level of difficulty, and researchers can choose appropriate methods according to their needs, or they can make choices in sequence. That is to say, not every method may be chosen, and any one method can achieve the purpose of comparison. Of course, this method aims to promote the functionality of the Chat GPT system. When necessary, researchers can also achieve their research objectives through other means such as self research and learning or accessing other research materials.

5. Experimental Results of Chat GPT Combined with Comparative Analysis Method

By combining comparative analysis, the Chat GPT system has effectively solved various difficult issues that may arise in international sports intellectual property disputes. In basic theory, it is possible to clarify the differences and connections between sports intellectual property and intellectual property of sports; In terms of sports technology, appropriate intellectual property protection strategies can be provided, such as technology secrets, technology copyrights, etc., although sports technology cannot be patented; In terms of governance philosophy, emphasizing cooperation, rule of law, fairness, justice, sustainability, and development are its basic

requirements. The implementation path mainly includes: (1) establishing international cooperation mechanisms: governments and international organizations should strengthen communication and coordination, promote international intellectual property protection and cooperation, and establish a sound international legal and regulatory system. (2) Strengthening the cultivation of professional talents: It is very important to cultivate professional talents in related fields, including lawyers, arbitrators, technical personnel, etc. in the field of intellectual property. All parties should actively carry out relevant training and seminars to improve the quality and ability level of professional talents. (3) Promote technological means: Utilize advanced technological means such as digital watermarking and smart contracts to improve the efficiency and accuracy of the investigation, evidence collection, arbitration and other aspects of intellectual property disputes. (4) Strengthen information sharing: In the process of intellectual property protection and dispute resolution, all parties should strengthen information sharing and communication, timely exchange information and situations, in order to better understand the situation and make corresponding responses and handling. (5) Establish a fair and impartial review mechanism: Establish a sound, transparent, just, and fair intellectual property review and arbitration mechanism, provide strong legal support for intellectual property protection, and establish a complete set of guarantee mechanisms.

6. Conclusion

The Chat GPT system has powerful information processing capabilities and can make significant contributions to the development of human society. With the continuous upgrading of the system, its operational functions will also become more rich and complete. However, due to the fixed and unchanging three-layer structure of the Chat GPT system, as well as the endless and boundless objective concrete world, this determines that there will still be unknown phenomena in the system. In addition, any concrete changes in language, behavior, and related relationships may result in different outcomes. Therefore, the use of the Chat GPT system to resolve international sports intellectual property disputes inevitably requires exploration from multiple perspectives in terms of methods, and obtaining sufficient data through comparative analysis to ensure the rationality and effectiveness of research problem solving.

Acknowledgment

This work is supported by Scientific research startup fund project: the legal basis and path choice of sports intellectual property protection (RC20114)

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