

## *Retraction*

# **Retracted: Innovation and Practical Methods of Music Education Path in Colleges and Universities under the Popularization of the 5G Network**

### **Scientific Programming**

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This article has been retracted by Hindawi following an investigation undertaken by the publisher [1]. This investigation has uncovered evidence of one or more of the following indicators of systematic manipulation of the publication process:

- (1) Discrepancies in scope
- (2) Discrepancies in the description of the research reported
- (3) Discrepancies between the availability of data and the research described
- (4) Inappropriate citations
- (5) Incoherent, meaningless and/or irrelevant content included in the article
- (6) Peer-review manipulation

The presence of these indicators undermines our confidence in the integrity of the article's content and we cannot, therefore, vouch for its reliability. Please note that this notice is intended solely to alert readers that the content of this article is unreliable. We have not investigated whether authors were aware of or involved in the systematic manipulation of the publication process.

Wiley and Hindawi regrets that the usual quality checks did not identify these issues before publication and have since put additional measures in place to safeguard research integrity.

We wish to credit our own Research Integrity and Research Publishing teams and anonymous and named external researchers and research integrity experts for contributing to this investigation.

The corresponding author, as the representative of all authors, has been given the opportunity to register their

agreement or disagreement to this retraction. We have kept a record of any response received.

### **References**

- [1] Y. Sun and H. Jin, "Innovation and Practical Methods of Music Education Path in Colleges and Universities under the Popularization of the 5G Network," *Scientific Programming*, vol. 2022, Article ID 1536911, 7 pages, 2022.

## Research Article

# Innovation and Practical Methods of Music Education Path in Colleges and Universities under the Popularization of the 5G Network

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In the era of the 4G network, the scale and pattern of online music education have been formed, and its necessity and educational achievements have emerged. The 5G network era is coming, and online music education is once again facing new challenges, and it is imperative to make necessary changes. This paper, by expounding on the changes brought about by the 5G network era, combined with the characteristics of online music education in colleges and universities, will summarize and analyze the current work status and problems faced. Improve the level of work and make online music education reach a new height.

## 1. Introduction

In recent years, my country's higher music education has developed rapidly [1]. The latest data from the Ministry of Education show that the total number of students in various types of higher education in China is nearly 37.8 million. Among them, music education in colleges and universities, as one of the priorities in higher education, has always been highly valued by the party and the state [2, 3]. With the widespread use of 4G network technology, music education has also broken through the traditional single face-to-face mode, gradually introducing new technologies, broadening work ideas, and opening up new positions for online music education, attracting more college students to learn theory and education through online media. The results are remarkable. Recently, with the rapid development of network technology, the 5G network after 4G has achieved trial networking, and a faster and more convenient network era is coming. Under the new situation, the online music education work in colleges and universities will inevitably face new challenges, and the work ideas and methods will also face new changes [4].

The rapid development of network technology and the continuous progress of new media technology have brought

about great changes in people's daily life. Smartphones that can be connected to the Internet have become an important item for everyone to travel. As long as there is a mobile phone, reading and learning, shopping and driving, information query, and even identity verification can be realized. 4G network technology has truly changed people's daily life habits. Traffic and Wi-Fi have become the channel tools for modern people to exchange information with others. Among them, the emergence of new network media has expanded the channels for people to obtain information on a daily basis from newspaper publications and television broadcasts to network news terminals. Text, pictures, audio, and video, as information carriers, are constantly combined on new online media and become links and pushes. No matter at home or abroad, no matter the size of the news, just take out your mobile phone and can know what is going on in the world. The dividends brought by the 4G network era are obvious, the technological innovation is faster than expected, and the 5G network is coming to everyone [5]. In 2014, the transmission network based on 5G technology was interviewed for the first time. After several years of research and development, at the end of 2017, the 5G-phased full-featured standardization was completed. My country also

authorized the three major domestic operators to carry out system experiments in 2018. The technical principles of 5G networks do not need to be repeated, but the changes it will bring cannot be ignored. First, the data transmission speed in the 5G era has increased. The data transmission speed of the 5G network can exceed 1 Gb per second, and the theoretical peak value can reach tens of Gb per second. Compared with the 4G network, the data transmission speed is greatly improved. Second, in the 5G era, more devices and terminals can access the network. In addition to mobile phones, computers, and a small number of other devices, the current devices that can access the network will add more access devices and everyone will also have more smart devices that can access the network. Third, the 5G era will promote the development of big data technology. With more devices connected to the network, more data will be formed. Some scholars say that this will bring about a tsunami and blowout of data. The previous sampling data analysis technology cannot meet the demand, and it is inevitable that more big data technology that can analyze the whole data will be used. The explosive growth of data also puts more demands on big data technology, and the further development of big data technology is in line with the arrival of the 5G era. Traditional music and musical traditions are constantly changing with the evolution of social life, not fixed [6–8]. The relationship between Chinese and Western music has gone through different stages since its birth, and the situation and people's mentality reflected in each stage are different. The research in this area really goes from the analysis and explanation of the abstract idea to the concrete and detailed explanation. In music teaching, when affirming the excellence of traditional Chinese music, it is undeniable that the introduction of Western music has had a historical impact on the development of music in our country. The introduction of music forms does not equal the introduction of culture. The surface form of music culture is very important. It is easy to teach and accept [9, 10], and its psychological form has a deep relationship with a nation's way of life, behavior, and aesthetics in the deep level. What is more important now is to do research on the psychology of music culture. As far as my country's national music culture is concerned, from the point of view of being passed down from generation to generation and having characteristics, traditional music is not only regarded as traditional music in our era but also as traditional music in all dynasties [11]. In addition to historical inheritance, traditional music is especially important for its expressive and developmental nature, and the historical penetrating power that any tradition must have. After generations in the process of historical evolution, it still maintains its vitality and maintains its existence. This requires that the tradition must have the ability to recreate and the internal mechanism of recreation, and have the vigor of continuous reconstruction.

College students are more likely to accept the traditional education model, which requires face-to-face communication between teachers and students, which is conducive to the interaction between teachers and students, and the effect is obviously irreplaceable. The current college students are thoughtful, energetic, and have a strong ability to accept new

things. It is the group characteristics of college students. It has become a reality that college students are proficient in using mobile phones and computers to access information online. In the process of music education, using new media tools such as WeChat, Weibo, and various teaching APPs to communicate ideas with students through the Internet and transmit positive energy will inevitably make college students more receptive and more willing to accept. The network music work has also passed the initial stage of testing the water and has further developed to a mature and high-level stage. The content is more abundant [12]. The rapid development of network technology has profoundly affected people's daily life, and basic needs such as food, clothing, housing, and transportation can be solved by using the network. Among them, obtaining information through the Internet has become the behavioral habit of many people, especially college students, and it is not uncommon to have problems with "Baidu look" and "Zhihu look." Network technology also provides technical support for music education, and the emergence of new network media provides content and platform support for music education. The massive information on the Internet has become an important resource information base for music education [13], and the form of expression is more intuitive. WeChat, QQ, Weibo, etc. are commonly used information interaction platforms. College students are willing to obtain rich music through new online media. The use of the Internet and new media has further improved the effect of music education. Data from December 2018 show that the usage rates of WeChat Moments, Qzone, and Weibo are 83.4%, 58.8%, and 42.3%, respectively. As a group with more access to the Internet, college students often use various social media tools such as WeChat, QQ, and Weibo. Using new media tools and the convenience of the Internet, Si music education can be integrated into all aspects of daily life, which is convenient to create a good campus cultural environment, and is no longer limited by a fixed location and time. Through the effective use of life bits and fragmented time, as an effective supplement to the traditional education model, it is close to the needs and preferences of college students, easy to stimulate their enthusiasm and interest in learning, and increases the diversity of music education work methods. It is easier to achieve the ideal results of smooth acceptance, hydration, and noiselessness [14, 15].

## 2. Current Situations and Problems

For a long time, in the educational practice of our country, emphasis is placed on science and engineering, ignoring humanities, utilitarianism, ignoring quality, focusing on majors, ignoring foundations, focusing on books, and ignoring practice. The understanding of music education in ordinary colleges and universities is superficial, and the cultivation of college students' aesthetic education emotions has been neglected. However, some leaders in charge of music education in colleges and universities do not pay enough attention to music education. They mistakenly believe that music education is just simple singing and dancing, and think that holding some competitions and cultural

performances is the whole of music education, which leads to the teaching practice of music education in colleges and universities. It is not valued in music, and it is only in form and appearance, so college students' musical aesthetic ability cannot be truly improved and developed. Society lacks a profound understanding of the essence of music education, coupled with the fact that music education cannot bring direct economic benefits, and its role cannot be seen in the short term, to a certain extent, some people despise it and only regard it as a kind of embellishment or decoration, without knowing its value in essence. Therefore, society, schools, or families have given enough attention to music education. In this way, both educators and educated people bury in their hearts the subconscious thought that music education is not important, and its educational effect can be imagined. At present, most of the public music teachers in many colleges and universities come from professional music academies (departments), and their majors are vocal music, instrumental music, or theoretical composition during their studies. Therefore, they only focus on technical teaching in the teaching process, so that students have a good understanding of music. Compared with students majoring in music, students of other majors in colleges and universities have different foundations, different specialties, and different interests and hobbies. Although the teaching object and teaching purpose of the two are different, the teaching content is similar. The music curriculum is very random, the curriculum is scattered, and the phenomenon of people setting up courses can be seen everywhere. In addition, the teaching materials for general music courses in most colleges and universities are very limited, and there are only a few teaching materials recommended by the music education associations of colleges and universities. Compared with the situation where there are dozens of general comprehensive teaching materials for other disciplines and majors, there is a world of difference. The teaching content is separated from the actual needs of ordinary college students in colleges and universities. The public music textbooks are not included in the textbook management system uniformly ordered and distributed by the school. The textbooks used in the teaching are all searched and purchased by the teachers themselves. Therefore, it is difficult to guarantee quality. It can be seen from the survey data and the information inquired that the current situation of music education in ordinary colleges and universities has been greatly improved, but it is not as optimistic as we imagined. It seems that its situation is still dispensable. It is very strong, and some people regard it only as a kind of decoration, which is still in form and appearance and has not been paid any attention fundamentally. "Art education is important in talking, secondary in doing, not in busy." The phenomenon is still widespread. Furthermore, the development of music education in ordinary colleges and universities in my country is still unbalanced. Although a few schools have achieved good results, most of them still have many problems, such as the management organization of music education is not perfect, the teaching management is not perfect; the general lack of teachers and the low level of teachers; insufficient funding; and single teaching materials, teaching content, and teaching forms; the reasons for all

these phenomena are complex. Obviously, some problems cannot be solved by individuals, but only by the government and schools before they can be gradually solved and implemented. This article only analyzes and discusses the problems existing in music education in ordinary colleges and universities, hoping to find out the crux of the existing theory and practice.

- (1) More attention but still insufficient. At present, various colleges and universities have realized the powerful function and importance of the Internet, and many kinds of music teaching workers have also carried out educational and teaching activities through various network media tools, so that the working interface of music education is not only offline but also extended to online and established a solid educational position on the Internet [16]. The emphasis on online music education in colleges and universities has definitely increased, but the degree of emphasis is still insufficient [17]. There are still many websites and web pages and WeChat public platforms in colleges and universities, but the quality is not high. They pay attention to the form of content and despise the connotative value of content. The resource investment in online music education is still not enough. If you only think that online music is just a mechanical transfer of offline music education to the network, or that online music education only needs a few computers connected to the network, it proves that online music education is not enough. There is also a biased understanding [18].
- (2) Rich in content but different in quality. On the network platforms of colleges and departments, especially the WeChat public platform, information is released quickly, and the content covers a wide range of categories. However, there are still actual phenomena of uneven quality of some content published on different platforms or on the same platform. Too much emphasis on whether the title is eye-catching, the number of clicks on a single article, etc., and the lack of strict control of the quality of the content, the phenomenon of fried rice, and stereotypes still occur, and teachers in professional fields use online platforms and new media tools to conduct professional There are still fewer lectures.
- (3) The use of media tools tends to be skilled but the form lacks innovation. After the development in recent years, the number of university network platforms has reached a certain scale, with corresponding influence, and outsiders also know school information mainly through network media. There are more and more teachers and students in colleges and universities who are familiar with the use of new media tools. The website pushes a beautiful and professional layout and has accumulated a lot of operating experience. Information is released quickly, and news information can be released on the same day, which is much faster than traditional

paper media. However, with skill and speed, the atmosphere of music education through new online media is not strong, and most of them are information transmission, which fails to effectively combine music education and information. The newly generated network tools cannot be understood and used in time, which makes the innovation of music education work form insufficient. Figure 1 shows the relationship between music innovation education disciplines.

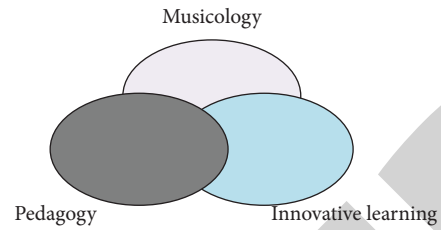


FIGURE 1: The relationship between music innovation education disciplines.

- (4) In quality education, music quality teaching is very important [19]. As an important part of art education, music education has a very high aesthetic education value. It is the most direct university aesthetic education and plays an irreplaceable role in the full implementation of quality education. Pursuing the comprehensive and balanced development of college students' personalities is the basic concept of music education in colleges and universities.

### 3. Ideas for Music Education Work under 5G

- (1) Establish the awareness of full participation in online music education in the 5G era. With the advent of the 5G network era, the impact of new technologies and the emergence of massive data will inevitably bring about new changes in the network music work pattern in colleges and universities [20, 21]. In colleges and universities, student education is not only the task of teachers but also the work responsibility of student staff, class tutors, and related staff. Similarly, the basic idea of educating people by all staff is bound to apply to the field of ideological and political work. All kinds of people can integrate music education into it based on their own work, form music education into work habits, and reflect music education with practical actions. In the 5G era, the network will pervade life, and the music education work examples of all kinds of people will become valuable materials for online music education, and everyone will become a participant in online music education. Through online sharing and reporting, narration, and guidance, online and offline linkages are formed to create an organic working system for online music education in the 5G era. Colleges and universities should help every worker to establish an important awareness of full participation in online music education through educational guidance and policy support.
- (2) Strengthen the construction of online music educators in the 5G era. Online music education requires a professional workforce [22]. In the 5G era, the emergence of new technologies and the new changes in the network landscape have put forward more and higher job requirements for online music educators. Most colleges and universities have not established a full-time network music education team, and many

workers still undertake a lot of other work. The new job requirements will bring more work tasks, and the establishment of a full-time team will ensure full input of work energy to meet the new challenges. At the same time, the resource investment in the workforce should continue to increase, and the professional quality of the workforce should be improved through the training of theoretical literacy, media technology, educational methods, and frequent exchanges in the Internet industry, media industry, and education industry. In the full-time work team, the theoretical talent team will be further enriched, and finally, a team of network music educators in the 5G era with strong ideas, outstanding abilities, and a combination of full-time and part-time jobs will be formed. The full-time work team combined with the actual work of full participation in online music education will help colleges and universities to ensure the work effect of online music education in the 5G era [23].

- (3) Open up a new frontier for online music education in the 5G era. In the 5G era, network transmission is faster and traffic costs may be lower. Coupled with the emergence of various technologies, the impact is no less than the 4G era. Among the online tools currently used by college students, WeChat, QQ, and Weibo are no longer new, and more media apps such as Douyin and Zhihu have also become online gathering places for college students. Online music education cannot only be satisfied with WeChat, Weibo, and other tools but should quickly adjust to emerging platforms to work. In the future, if the traffic cost is further reduced, the traditional text and pictures may also lose their advantages, and the audio and video will have more room for development. The focus of online music education can also gradually shift from text and pictures to audio and video, using audio and video to share news information and convey correct ideas. At the same time, try to introduce VR technology, big data analysis technology, etc. in online music education, through new technological innovation work mode, data analysis to understand the current state of mind of college students, understand the different needs, and provide a reliable basis for future work design.

Constructive music teaching is a teaching mode based on constructivism theory. The teaching mode of constructivism is “student-centered, teachers play the roles of organizers, guides, helpers, and facilitators in the whole teaching process, and use the learning environment elements such as situation, collaboration, and conversation to give full play to students’ initiative, enthusiasm and initiative, and ultimately achieve the purpose of enabling students to effectively realize the meaning construction of the current knowledge.” In this model, students are the active constructors of the meaning of knowledge, and teachers are the organizers, guides, helpers, and facilitators of meaning construction; the knowledge provided by textbooks is no longer the content taught by teachers, but students actively construct the object of meaning; the media is no longer a means and method to help teachers impart knowledge, but a cognitive tool for students to actively study and explore collaboratively. The more mature teaching methods that have been developed so far include scaffolding, throwing, and random access (also known as random access). These theoretical frameworks are fully applicable to the music teaching process and can be used innovatively.

- (1) Scaffolding music teaching. The scaffold originally refers to the scaffolding used in the construction industry. It is used here to vividly describe a teaching method, that is, students are regarded as a building, and students’ “learning” is a process of actively constructing themselves, while teachers’ “Teaching” is a necessary scaffolding that supports students to continuously construct themselves and develop new problem-solving skills. Taking the Xiangjiao version of the music textbook “Let the World Be Full of Love” as an example, teachers can show students the structure diagram of the whole class (see the figure below) by writing on the blackboard before class, so that students can clarify their learning ideas and goals [24]. On this basis, fill in the detailed content of the section one by one in groups. In the whole teaching, teachers only teach songs through various media and guide students to promote teaching progress one section at a time, while more time is reserved for students to use section thinking to construct to make the world full of love as the theme. The system of emotion and knowledge can achieve the purpose of aesthetic and emotional education for students. Figure 2 shows making the world full of love.
- (2) Throwing-out music teaching. This teaching mode requires that it be established on the basis of contagious real events or real problems. The real events or problems are vividly likened to “sketches,” because once the event or problem is determined, the entire teaching content and teaching process are also confirmed, just like the ship is wrongly fixed. For the music class “Let the world be full of love,” “pin” is “to fill the world with love,” which not only includes the song “Let the world be full of love” but also guides students on how to understand and feel “love.” Love



FIGURE 2: Making the world full of love.

“includes human affection and human love (see the picture below).” After the teacher “breaks down,” the rest of the time needs to be more for teachers to participate in students’ discussions on an equal footing and for students to communicate and share with each other. Different individual students have different understandings of “love” and different feelings about the song. Sharing their experiences of enjoying or feeling “love” in communication can enrich students’ in-depth and diverse understanding of “love,” and deepen emotional cognition. Figure 3 shows understanding and feeling of “love.”

Creative music activity is complex, which requires the fusion of music logic with more left-brain activities and musical intuition with more right-brain activities, so that music innovation education and brain science are linked together, interacting, influencing, and promoting each other. Figure 4 shows the relationship between music creation and brain function.

In the creative music teaching practice, the creative teaching method is the main method, the game teaching method and the technology intervention method are supplemented, and the interactive method, the telling method, and the guiding method are also used comprehensively. The teaching concept basically involves three major music teaching systems, such as letting students create rhythm with rhythm and melody, using Colvin gestures to create melody, and using Orff instruments to improvise an accompaniment. The teaching theme of “Cultivating Musical Ability by Participating in Creative Music Games” is to integrate games into the process of music learning, improve students’ interest in music creation, and encourage creative performance; the teaching target is eighth-grade students who have never been exposed to songwriting. The content is the development and extension of the typical Spanish-style flamenco dance rhythm [25]. First, divide all the students into four groups, namely, rhythm group, transmission group, rhythm group, and singing group; secondly, collectively learn and practice knowledge about rhythm patterns, transmission objects, rhythm, and pitch; and third, groups will cooperate to display the music knowledge they have learned; fourth, creative teaching, requiring students to improvise specific and incomplete melodies, and show their achievements through the students’ creative work session. The teaching steps are as follows: first, import through collective momentum and rhythm imitation games; second, sound creation learning through the students’ understanding of the regular staff, create music for the displayed graphic spectrum. Figure 5 is an example of a graph spectrum.

The arrival of the 5G network is just around the corner, and people’s life will be more convenient. The online music work in colleges and universities will also usher in new changes accordingly, adapt to technological changes, combined with the new work situation, establish a music work

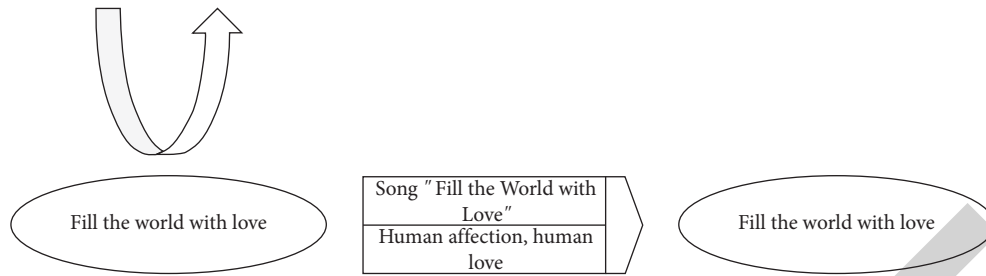


FIGURE 3: Understanding and feeling "love."

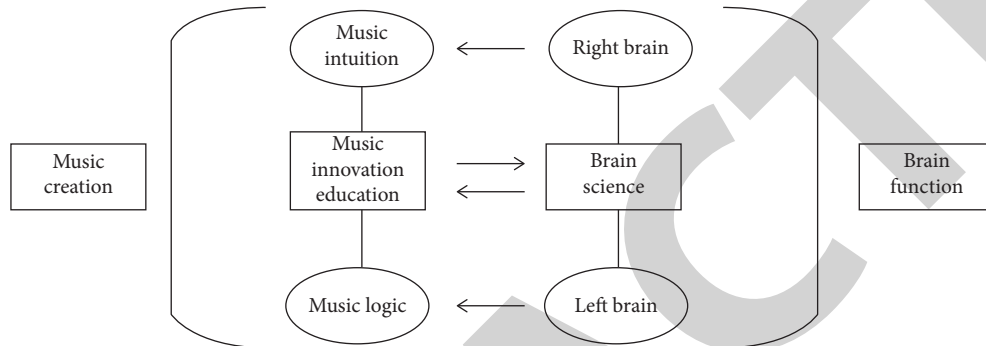


FIGURE 4: The relationship between music creation and brain function.

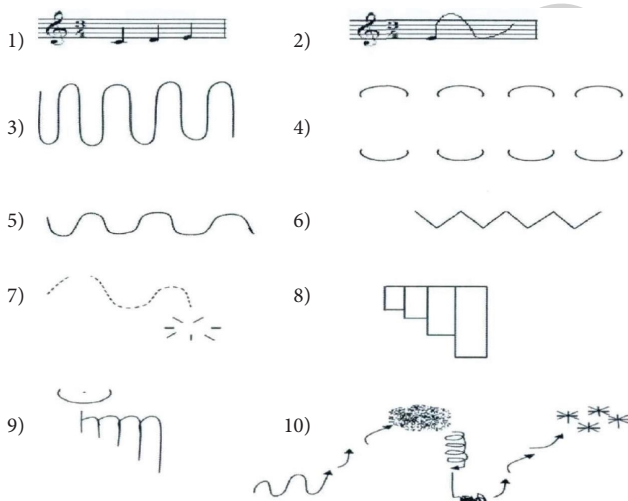


FIGURE 5: Example of a graph spectrum.

awareness in line with the new era of the Internet, constantly broaden work ideas, innovate work methods, and improve content quality by improving content quality, innovating the form of content expression, and introducing new technologies will surely once again enhance the work level of online music education.

#### 4. Conclusion

In short, under the impact of the Internet in today's society, traditional statistical services have been unable to keep up with the times. While the Internet has provided great help, it has also put forward new requirements for traditional

statistical services. The complex and difficult statistical service system will definitely be replaced by the electronic information-based statistical service system. Therefore, it is an inevitable trend in the new era to establish an electronic information-based statistical service file system in the statistical service department. Following the trend, increasing the information management efficiency of statistical services, and establishing an electronic information-based statistical service system in the new era is a major way for our statistical service industry to contribute to society. It is also the technical basis for promoting the comprehensive management of statistical services. Therefore, statistical service departments should fully realize the importance of informatization construction of statistical services, improve the statistical service system, improve the professional quality of statistical service personnel, and promote the informatization construction of statistical services.

#### Data Availability

The dataset can be accessed upon request.

#### Conflicts of Interest

The authors declare that they have no conflicts of interest.

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