

# Innovative Way of “Chinese Electronic Music” from Xiaofu Zhang 's Facebook

Tian Wen

Shandong University Of Arts (China Shandong 250300)

**Keywords:** Electronic music; Xiaofu Zhang; *Facebook*

**Abstract.** As the creator of the combination of traditional and modern music, Xiaofu Zhang plays an incomparable role in the innovation of Chinese electronic music. This paper studies the development of electronic music from *Facebook*.

Electronic music is made by the use of electronic equipment and other musical instruments with electronic means of music, compared with traditional music, with electronic devices electronic music synthesizes a variety of sounds which realizes the reproduction of music and forms the composition of pure music and noise music. Among them, Xiaofu Zhang's works are particularly prominent in the innovation of electronic music in China. This article will carry out a detailed study. The purpose of electronic music is to carry out innovation-oriented development which can enhance the aesthetic ability of social groups. Electronic music innovation should link knowledge with practical application and make research and analysis on the current status and development progress of electronic music so as to effectively promote the improvement of electronic music quality of social groups.

## Part One Introduction of Xiaofu Zhang's *Facebook*

Xiaofu Zhang's *Facebook* promotes the development of electronic music, with a distinctive style, it leads the innovation of electronic music, and *Facebook* reflects the characteristics of electronic music, and electronic music and Peking Opera can be combined to deduce the tricks of the human world. *Facebook* shows the power of electronic music where abstract music and musical instruments are mixed modern interpretation of the charm of Peking Opera. The use of electronic technology in the *Facebook* makes variants to manipulate the sound and cleverly convey the charm of Peking Opera. In electronic processing, Xiaofu Zhang makes deformation at different levels, and he uses percussion to create a musical atmosphere with specific sound sources.

## Part Two The Dilemma of Electronic Music

Innovation is the requirements under the development of electronic music, and to change the concept of electronic music development, it should effectively promote the improvement of electronic music innovation, and we must grasp the needs of the development of electronic music, analyze the actual requirements of electronic music innovation in-depth, and promote the continuous development of electronic music. With advanced experience, electronic music encounters some difficulties due to its own limitations. However, it has to be admitted that there are still some shortcomings in the existing electronic music mode which restricts the future development. In general, it can be interpreted as the following points.

### Lack of Professionals

Compared with the history of western countries, electronic music shows the disadvantage of lack of professionalism and the shortage of professionals in electronic music which affects the development of electronic music in terms of faculty and popularity. However, due to the shortage of electronic music practitioners, their professional qualities are long-term under the constraints of the external environment. They lack knowledge of electronic music and can not fully grasp the essentials and difficulties of electronic music. Therefore, they can not agree with the actual development of electronic music demand for mutual coordination, which leads to that electronic music can not be further promoted, and it is unable to achieve the desired effect of electronic music.

### **Lack of Educational Resources**

Due to the lack of support for electronic music, and hardware facilities are obsolete, and there is no practical support, and the operation of electronic music affects the mastery level. The existing model of electronic music is limited to traditional devices and does not allow for the transition from passive counseling to active help. Taking into account the thin electronic music education method can not achieve timely help, it puts forward the requirements of the electronic music teaching methods to break the previous plain education content and vigorously improve the effectiveness of education services. The more obvious goals will undoubtedly limit the education to a small group of students, and neglect the entire group's guiding needs for electronic music. The main body of electronic music should be a wide range of groups, and it should improve the mentality of members of society through the popularization of electronic music.

### **Disconnect with Society**

With the ever-changing of science and technology, the advanced equipment is continuously updated, while our country is constrained by equipment and can not meet the requirements of the development of electronic music. Electronic intelligence is based on physical sound, and it disconnects with social development and can not meet the aesthetic needs of the public. With the development of electronic music in our country, the significance of innovation is more and more important. Innovation is the purpose of the development of electronic music in our country. To objectively change the problems of electronic music in our country, we should start from the innovation and reform, and try to study electronic music development path which is matching social development to meet electronic music needs of the community.

## **Part Three Innovation of Electronic Music**

In our country, electronic music is deeply influenced by traditional music. The traditional musical instruments are integrated in the innovation, and the combination of tradition and modernity and aesthetics and art is realized by using electronic information technology which can be focus on essence of Confucianism, Taoism and Legalism and realize the profound culture and reflect the flowing beauty. In addition, it also reflects the nationality and shows the national superiority and individuality in the long history.

### **The Use of Sound Material**

Electronic music encompasses specific sounds, laboratory synthesized tones, live real sounds and various noises, and each kind of sound is rich and varied [1]. Taking Xiaofu Zhang's *Facebook* as an example, the music chapter of "Sheng" (which means male role in Peking Opera) has arched structure, and in the beginning and ending part, this music chapter's beginning and end are in a similar but different way, and in the middle part, Jinghu can reach its climax, which protects the rigor of the musical composition and incorporated flexibility in workmanship. The work of *Facebook* focuses on dealing with details of the sound, and the sound material is as concise as possible, and the materials used in the *Facebook* are relatively concentrated which mainly using the combination of chorus and real sound. It creates atmosphere directly through percussion and makes some changes through electronic technology. In the music chapter of "Chou" (which means clown role in Peking Opera), the sampling sounds are laughter and spoken parts, and the opening of the clown role's laughter can create a relaxed atmosphere on the scene, which will show the image of the hero by voice. In the electronic music, with some channels and traditional percussion instruments, laughter reverb leads to short motivation and dialogue to achieve the effect of weakening Peking opera Music And Enrich The Level And Rendering Power.

### **Synthesis Of Sound**

With the development of electronic technology, electronic music has entered a synthesis period of integration of technical means, and the most representative is the mixed electronic music, which mainly uses the perfect combination of on-site original sound and laboratory prefabricated sound to express effects of stage sound[2]. Taking Xiaofu Zhang's *Facebook* as an example, it uses the Jinghu which is a kind of traditional music as the material to make the formation of "cultural symbols". Xiaofu Zhang's *Facebook* uses synthetic sound, and he focuses on chorus and is good at

using distinctive voices. Taking *Facebook* as an example, electronic music adopts Jinghu and Allegro to synthesize sound and synthesize high-frequency noise, and synthesize materials by spoken parts to contrast the image of the face. “Chou” takes spoken parts as the main, and the rhythmic pattern can enhance the sense of structure, while through the surround sound, the spoken parts, shout throat, percussion, Jinghu and other sounds create a different level[3], and the ensemble of brass instruments forms a wave-like orgasm in crescendo. Xiaofu Zhang's *Facebook* uses real-time sound from the scene which is unlike previous sounds, and *Facebook* adopts combination of live acoustic percussion instruments where musical instruments echo those of the Peking Opera. The percussionists control the instruments respectively, which not only makes real-time music live, it also achieves a combination of music and noise. Spoken parts of “Chou” and percussion of Peking Opera form a deformation to highlight the agility of electronic music. By shocking to strengthen the charm of the sound, in *Facebook*, electronic music can be mixed with laughter to create a kind of atmosphere of Peking Opera. The classic material of traditional percussion in the role of electronic sound enhances the description of the role, and it is identifiable.

### **Using Multiple Technologies at the Same Time**

Electronic music takes the mode of using digital and analog in common way, and it also uses audio software to process the synthesized sound. Through the sampling of the sound, Xiaofu Zhang *Facebook* processes the sound, and to complete mastering after the sound effect. In the deformation of the sound inversion, digital dual simulation platform uses OOP technology which makes the sound into repeated loops to express the thinking of the face, and supports the image of Facebook by the prerecorded spoken parts. Electronic music takes attention to space effects, Xiaofu Zhang *Facebook* focuses on the stereo effect of multiple channels on the layout, the formation of an independent sound field. The live loudspeaker is distributed to form a stereo effect. The control of the scene layout forms a “dynamic space”, and the *Facebook* arranges the percussion instruments in different ways and performs voice conversations according to the edges to form different flow rings. The different positions of the time highlight the stress, and using the effect can create the “prefabricated space” in the production of the work [4]. *Facebook* is fully integrated Peking Opera and modern electronic music, and it forms creative style with high charm.

## **Part Four The Development of Electronic Music**

With the progress of science and technology, in order to keep pace with the international standards, electronic music should begin with education by increasing the training of electronic music talents, getting the support of all walks of life, and striving to improve the education environment to improve the practical operation level. In order to promote the smooth development of electronic music, it needs to expand the participation of all sectors of society. To improve the past tendency of ignoring electronic music and earnestly recognize the effectiveness of electronic music, we must firmly establish awareness and actively participate in electronic music activities based on a clear definition of electronic music and make every effort to support the innovation of electronic music. We also should give full confidence in the development of electronic music from the heart, and convince that electronic music can protect the aesthetic requirements of social groups to give advice and suggestions for the development of electronic music. If teachers want to make electronic music develop, it should make great efforts to improve teachers' experience in electronic music teaching and research, and keep teaching exchange and scientific research guidance to provide help to teachers, and provide cross-forum for academic exchange through the online forum to promote mutual aid among teachers. Our country should increase investment in electronic music research by giving the appropriate teaching equipment and relying on the network to innovate electronic music to form a fusion of disciplines, and electronic music can meet the needs of the times.

All in all, in order to effectively raise the level of innovation in electronic music, we can stimulate the enthusiasm of the educated through competitions and accumulate experience by conducting electronic music activities. Electronic music lectures can also be held to help the educated understand the research results of electronic music and social innovation and development to create conditions for the community to understand the content of electronic music, and the

development of innovative spirit and ability is the core of electronic music, and innovation can help people from all walks of life to improve the cognitive level of electronic music by discussing the ways of inspiration, participation and interaction which can improve the level of the development of electronic music at the same time.

## References

- [1] Yi Xia. Finishing their own way with the beat of the times, the impression of pioneer of contemporary Chinese electronic music - Xiaofu Zhang[J].Musical Instruments,1997(03).56-57.
- [2] Xiaofu Zhang. The arrangement and evaluation of the development of electronic music in China [J].Art Commentary, 2012(04). 111-112.
- [3] Mei Xie. Twenty Years of Chinese electronic music - interview with Xiaofu Zhang, the President of China Electronic Music Society[J].Newspaper of China Art, 2014(12). 78-79.
- [4] Xibao Xu. The symphony of tradition and modernity - an analysis of Xiaofu Zhang 's new essay "Facebook"[J].People's music,2007(12). 67-69.