

The Virtual World in Metaverse Movies

Xiran Yuan

School of Arts/ Pearl River Film Academy of Jinan University, Guangzhou, 510000, Guangdong, China

yuanxiran2@163.com

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Abstract: As a significant medium for cultural dissemination, movies use the metaverse to construct a virtual world, which not only expands the boundaries of narrative, but also innovates traditional viewing experiences. This phenomenon reflects the intersection of technology and art, and has a profound impact on the audience's cognitive habits and aesthetic taste. This article will analyze the definition of the metaverse and its importance in current culture, and then explore the combination of metaverse movies and the virtual world. It will also explore the specific methods of shaping the virtual world in movies, including the integration of emerging technologies, the importance of pursuing classicism, and how to draw on traditional and classic elements to enrich the connotation of the virtual world. Through these explorations, not only can we foresee the future development trends of the virtual world, but we can also understand how they affect our recognition of the real world.

1. Introduction

Driven by the wave of digitization, the concept of the metaverse has gradually entered the public eye, heralding a new era of integration between virtual and reality. This trend not only affects the development of the technology field, but also profoundly reshapes the cultural industry, especially the film industry. Movies, as a powerful narrative medium, are now beginning to explore bringing audiences into a rich and multidimensional virtual world composed of data. This article aims to explore how metaverse films can leverage the virtual world as a medium to provide audiences with unprecedented immersive viewing experiences, and explore the impact of this new narrative method on traditional film theory and practice, aiming to reveal its profound significance for future cultural forms.

2. Related concepts

2.1 Definition and characteristics of the metaverse

The metaverse is a new form of internet evolution supported by technologies such as augmented reality (AR), virtual reality (VR), and blockchain. It constructs a continuous, real-time, and highly interactive parallel digital space. In this space, users can transcend physical limitations and experience a multidimensional world composed of digital assets, virtual identities, and social interactions. The characteristics of the metaverse lie in its openness and scalability, which can seamlessly connect the real world and digital space, allowing users to engage in diverse activities such as socializing, creating, trading, and gaming in the virtual world. This new form of internet signifies a deeper level of integration between information technology and human daily life, showcasing the infinite possibilities of future digital economy and social interaction^[1].

2.2 The Association between Metaverse Movies and Virtual Worlds

Metaverse movies refer to movies with the metaverse as their background or theme, which expand the boundaries and depth of narrative by introducing the concept of virtual world. In such movies, the virtual world is not only the place where the story takes place, but also a key element that drives plot development and character growth. They introduce the audience into a highly

malleable digital space through highly advanced technological settings, where the boundary between reality and virtuality is blurred, providing infinite possibilities for storytelling. These movies concretize complex concepts of the metaverse, helping audiences understand and perceive the multidimensional characteristics of the metaverse. Through the power of imagery, metaverse movies showcase the interactive relationship between the virtual world and users, as well as how this interaction affects real life, thus implanting thoughts and prospects for future virtual life in the minds of audiences.

3. The Characteristics of Virtual World in Metaverse Movies

3.1 Immersive experience

One of the characteristics of the virtual world in the narrative of metaverse movies is that it provides an immersive experience that blurs the boundary between the audience and the movie through exquisite visual effects, surround sound, and interactive design. The audience is guided into a sensory indistinguishable virtual environment, with rich details and realistic surroundings, as if they can touch every element in the world of cinema. The core of this experience lies in its captivating sense of immersion, where the audience is no longer a passive viewer, but becomes a part of the story world, able to have direct emotional connections with the characters and environment in the movie. Immersive experience not only enriches the level of viewing in metaverse movies, but also enhances the influence of storytelling, making movies a new experiential medium and opening a door to the future world for audiences.

3.2 Hierarchical: Single layer and multi-layer virtual worlds

The hierarchical nature of the virtual world is manifested as a complex space constructed in single or multiple layers. In a single-layer virtual world, virtual and reality maintain a certain separation, and movies explore the themes of identity, memory, and realism through this. The multi-layered virtual world is even more exquisite, as movies create nested digital domains that progress layer by layer, bringing viewers exploration and experience of different levels of reality. This setting challenges the audience's traditional perception of time and space, prompting them to constantly redefine the relationship between characters and the environment as the plot progresses. The hierarchy not only enriches the narrative structure of movies, but also deepens philosophical thinking on the essence of virtual reality, providing a new perspective to examine the multiplicity of the real world^[2]. Through this complex spatial layout, metaverse movies add a deep reflection on reality and imagination for future possibilities.

3.3 Technology Integration: The Interaction between Games and Artificial Intelligence

The virtual world in metaverse movies demonstrates the close integration of games and artificial intelligence technology. In this type of interaction, games provide rules and interfaces that allow viewers to explore and interact in virtual space, while artificial intelligence brings predictability and adaptability to these interactions. This technology integrates to create a dynamic narrative environment, where characters and plot can develop and change according to the audience's choices and reactions, thereby achieving a highly personalized viewing experience. The self-learning ability of artificial intelligence enables movies to present more complex emotional and behavioral patterns, and game mechanisms transform this complexity into interactive experiences, allowing the audience to have the power to influence the results in each branch of the plot. The integration of this technology not only promotes innovation in storytelling, but also foreshadows a significant increase in interaction and engagement between future films and audiences.

4. The Method of Shaping Virtual World in Metaverse Movies

4.1 Integrating emerging technologies

In metaverse movies, the shaping of the virtual world is inseparable from the widespread

application of emerging technologies, which not only provide unprecedented realism in visual effects, but also open up new dimensions in interactivity and experience. The film production team utilizes advanced computer graphics interface (CGI) technology and dynamic capture systems to construct complex virtual environments, giving them a high degree of realism and detail richness. In addition, through real-time rendering technology, the virtual world in movies can react instantly with the audience's interaction, providing personalized immersive experiences for the audience. With the continuous maturity of augmented reality (AR) and virtual reality (VR) technologies, the virtual world in movies has also begun to cross the boundaries of screens and enter the audience's real space. Through special head mounted devices or AR mirrors, viewers can intuitively feel the virtual elements of movie scenes in their actual environment, thus achieving a new viewing mode. In addition, using blockchain technology, metaverse movies can create a decentralized content distribution platform where everyone can participate in the construction and development of the movie world. This not only increases the interactivity of movies, but also provides a transparent solution for content copyright and distribution^[3]. Through the integration of these emerging technologies, the producers of metaverse films continue to expand the boundaries of the virtual world, making it a new form of artistic expression, elevating the narrative style of traditional films to a new artistic level, and bringing a unique viewing experience to the audience.

4.2 Pursuing Classics

When creating its virtual world, metaverse movies not only rely on the power of cutting-edge technology, but also deeply explore classic narrative techniques, aiming to make the charm of the story surpass the limitations of the times. Creators focus on establishing grand story structures and exploring profound thematic ideas, making the virtual world not just a digital scene, but full of cultural and philosophical depth. Taking "The Matrix" as an example, the film combines cyberpunk elements with philosophical exploration, and through its unique virtual world setting, it deeply analyzes the relationship between free will, identity cognition, and reality and illusion. In this film, modern technology is not only used to showcase the dazzling effects of the virtual world, but also serves as a key driving force for plot development and character growth. The portrayal of characters is equally classic, not just digital virtual images. They possess rich emotions and complex motivations, which enable the audience to resonate and enhance the universal value and lasting influence of the story. Through this in-depth cultural and emotional exploration, The Matrix is not only a representative of technological innovation, but also inherits the classic values of emotion and intelligence, allowing the construction of the virtual world to transcend visual impact and touch the common bonds of human culture.

4.3 Drawing on tradition and classics

In the creation of metaverse films, drawing on the essence of tradition and classics has become an indispensable process. This method combines classic literature, art, and philosophical ideas with cutting-edge technology to create a novel and familiar narrative style in the virtual world. Classic narrative clues, characters, and grand themes are reborn in this process, presented in a new form to contemporary audiences. For example, in Steven Spielberg's film "The Number One Player," the audience is introduced to a rich virtual world filled with classic games and cultural symbols. The movie not only reproduces many elements of classic games, but also integrates these elements into a high-tech environment, allowing a series of classic characters to demonstrate their growth and adaptation in the face of new challenges. The characters constantly respond and embody the spirit of classic games and 80s culture in their pursuit of fantasy. This combination not only builds a bridge between modern technology and classic game culture, but also enables those beloved classic cultures to be appreciated and inherited by the new generation of audiences in the virtual world. The innovative initiative of "Number One Player" not only adds layers to the multi-dimensional creation of the virtual world, but also expands the influence of classic culture, involving new fields and audience groups. This movie not only provides entertainment enjoyment, but also promotes the transformation and dissemination of cultural heritage in the digital age, enabling classic art to continue its vitality and influence in an innovative form in the context of the metaverse era.

5. Conclusion

In summary, with the intersection of technology and art, metaverse movies have created one immersive virtual world after another for audiences. These worlds are not just platforms for showcasing technology, but also places where culture and emotions converge. Through careful production and thoughtful storytelling, these films transcend the limitations of traditional visual media and achieve a touch on the audience's inner world. Future film production will continue to explore this path in depth and constantly seek the perfect combination of technological innovation and narrative depth, in order to create more masterpieces that can withstand the test of time and leave a mark in the treasure trove of human culture.

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