

# The Influence of 5G Technology on News Communication

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**Abstract:** As a basic technology, like Internet technology, 5G will promote the iterative development of other technologies through linkage and clustering, form a media technology revolution with far-reaching influence on human society, and reconstruct the connection between information. As the first influential factor in the media technology revolution, news communication will usher in a new round of development opportunities. This paper attempts to discuss the influence of 5G on news communication from the four elements of news communication, so as to promote the transformation and upgrading of the news industry.

**Keywords:** 5G; Journalism and communication

The fifth generation mobile communication technology, as an intelligent technology of advanced network facilities and information dissemination, has the characteristics of “double high and double low”, that is, high bandwidth, high speed, low delay and low energy consumption. High bandwidth, that is, 5G technology can accommodate 1 billion device connections because of the open performance of its network architecture. Capacity is no longer a shackle that limits user experience, and the interconnection of everything is from imagination to reality. High speed means that 4K HD pictures, VR, AR and even MR content products can be transmitted in real time. The low-latency feature of 5G will greatly enhance the user experience, and help broaden the application of production and life scenes such as driverless driving and medical surgery. The endurance with low energy consumption provides the underlying guarantee for the popularization of technology, and the real-time interconnection of everything makes the digital twins of human society possible.

Yu Guoming thinks that 5G technology is a revolutionary technology, which is the reorganization of all the relationships linked by the information network. In what form does the technical features of 5G affect news dissemination? Which subjects or which aspects of subjects have an impact on news communication? What are the characteristics and effects of this influence? This paper attempts to analyze the influence of 5G technology on news communication from the four elements of news communication, namely, “disseminator, content, channel and audience”.

First, the influence of 5G technology on communicators

Under the extensive connection pattern of everything, the transformation of news source from professional media to people to things. Due to the empowerment of new media technology, news production has shifted from professional media to the general public. The impact of technology is first manifested in the popularization of news production functional equipment at fair price, The high-definition camera of mobile phone enables users to take video information and record voice information all the time; At the same time, the simplification of video production software has accelerated the popularization of news information production and dissemination. Secondly, under the impact of technology, information distribution channels are becoming increasingly multi-source, Or the popularity of mass or niche video sites, cluster cyberspace and social application software can help the sharing, dissemination, comment and forwarding of audio and video information to be more efficient and convenient, and at the same time cultivate a good sense of video consumption of users.

Secondly, 5G technology will lay the foundation for everything to enter reality. Sensors and Internet of Things technology will enable human beings to obtain more information in dimensions, time and space. Artificial intelligence and data deep mining technology will expand the internal relations of massive information, and news production will gradually shift from the general public to “machines”. After the information is acquired, it is preliminarily edited and released by AI technology, and then pushed to the audience concerned by big data and “thousands of people and thousands of faces” for the first time. The main contents of the same topic news are completely different for everyone. With the development of 5G technology, sensors have become news information sources in the traditional context. Artificial intelligence has become the analysis, editing and publisher of information. Artificial intelligence news in different directions and fields will lead to increasingly diversified cross-border production and consumption of news information. In addition, the total amount of news information produced by UGC (user-produced content) and OGC (institutional-produced content) has already exceeded that of traditional professional media organizations. The proportion of news information produced and disseminated by professional media organizations continues to decline. The MGC (machine production content) brings the dissemination of massive information, which will inevitably worsen the situation. Under that condition that the news information amount produce by professional media structure only accounts for less than one ten thousandth or even

a smaller proportion of society, The direct production and dissemination of news content is far from enough to maintain the social function of news dissemination. On the one hand, we should strengthen the gatekeeper's effectiveness, and establish, supervise and maintain the underlying theory, system and framework of news information production and dissemination similar to China Banking and Insurance Regulatory Commission, so as to check the objective authenticity of news information dissemination and play the role of public opinion supervision and guidance; On the other hand, it should stick to the political principle of news communication, absorb massive data from sensor production and commercial production, and establish and maintain a higher professional level of artificial intelligence, so as to occupy the public opinion highland of news communication from bottom to top.

Second, the influence of 5G on the content of news communication

With the popularization of 4G technology, short video news is rising, and video quietly replaces graphic culture as a form of expression that news content makes the audience "love to hear and see", and video is also increasing its influence in extensive news reports such as mainstream news events. In the short video narrative process, the symbol proportion of graphic elements becomes heavier. It is also convenient for its dissemination, easy to understand and experience, and caters to the fragmented mode of dissemination, which has a profound impact on users.

Short video has the advantages of convenience, intuition, fragmentation and experience, which allows users to accurately and quickly capture the required information in the information ocean. At present, with the popularization of 5G technology, the limitation of network transmission is no longer the shackles of video news dissemination, so video news increasingly occupies the center of social influence. Under the general trend of turning to video, video narrative has the characteristics of faster and more direct expression of emotions. Video has become the main mode of audience media production, and new relationships are built in the process of communication.

Third, the influence of 5G on communication channels

On the one hand, the help of 5G technology makes AI news gathering, editing and publishing more flexible and efficient, and makes more AI news scenes perfect. In terms of AI penetration, the use of AI is not only intelligent information collection and news release, but also extends to every link of the industrial chain. Such as the Magic short video intelligent production platform launched by Xinhua News Agency, greatly reduced the time of interview, upload, review and release. All these have become models for AI to fully penetrate the news production chain. On the other hand, the "Internet of Everything" has been realized with the help of 5G technology, the network has been fully popularized, and information dissemination is no longer limited to traditional carriers such as newspapers and televisions. Audience can publish content with various terminal carriers at any time and anywhere. Therefore, the communication channels are expanding and distributing explosively.

Fourth, the impact of 5G on the news audience

5G not only brings about changes in information production and communication channels, but also greatly improves the news audience experience and reconstructs the audience's thinking habits and behavior patterns. With the application and popularization of 5G technology, it provides more possibilities for the innovation of content interaction. High-definition video news, combining somatosensory devices and virtual reality devices, the audience will receive more shocking sensory stimulation and interactive experience. After the 5G technology realizes the Internet of Everything, it not only has scenes with ultra-high connection density and ultra-high traffic density in community residential areas, office buildings, subway bus hubs, but also scenes that are difficult to be covered by harsh environments such as deep valleys and deserts in mountainous areas. You can chat and experience news events of all sizes around the world.

At the same time, the connection of 5G technology has the risk of connection overload, which changes from liberating people to binding people. Every technological change led by Internet technology companies, its initial intention is to solidify traffic and seize more users and users' more time, while more efficient communication and better information experience are the additional attributes of technological change. The diversity of information channels and sources leads the audience to no longer care about the source of news events, and most users trace the news only from which platform and sharing source they obtained it, which makes the authenticity of news questioned and reverse news gradually flooded.

V. Conclusion

To sum up, 5G technology has a comprehensive and profound impact on news communication, accurately grasp the new changes brought by 5G technology to news communication, actively adapt to the technological revolution, and use technology to promote the transformation and upgrading of the news industry and help the news communication in the new era.

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