



Intelligent Touch-Enabled System for B5G/6G and IoT Based Wireless Communication Network

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INTRODUCTION

Mobile and wireless communications have been playing a decisive role in the current economy with the technologies like 2G, 3G, 4G, 5G, GPRS, EDGE that successfully satisfy the user end with a significant role in the business, education, logistics and other primary industrial applications, effectively connecting the majority of the world's population. These, in the present day are proficient enough to connect to the devices and people for an unprecedented exchange of multimedia and data content, enjoying its fastest growth in the history due to its enabling technologies, encouraging its widespread deployment, further intensifying the communication and the industrial sector. As per the Cisco Visual Networking Index (VNI), there is an effective forecasting of the impact of the visual networking applications on global networks.

This in combination with the LTE and Wi-Fi provides a seamless user experience, accompanied by the universally high coverage rate. The internet, with the advances in technology, drastically affects the human lifestyle, in profound ways, transforming various facets of life *via* interactions between the individuals at virtual level throughout most of the applications. The wireless technologies have thus transformed many elements of life including the business, living standards and the infrastructure. In a never-ending quest for elegant solutions to various problems, the society is always on the lookout for new avenues of progress. Therefore the motivation behind seamless connectivity has resulted in the evolution of wireless communication from 1G to 5G.

DESCRIPTION

As the anticipated digital transition with the existing B5G networks has already begun and will continue to evolve over the next decade, the 6G communication era anticipates how humans will engage with digital virtual worlds after 2030. The next-generation 6G network, cloudification through micro service architecture, and

intelligent network orchestration and management are strongly correlated. The 6th generation wireless communication network is anticipated to consolidate terrestrial, aerial, and maritime communication into a robust network that would be more reliable, faster, and capable of supporting a large number of devices with ultra-low latency requirements while remaining cost-effective. New digital virtual worlds with connected intelligence must have novel technologies that support these challenges in communication and networking beyond 2030. The next generation of systems must achieve high Spectral and Energy Efficiency (SEE), low latency, and massive connectivity in order to support services like smart traffic monitoring, Virtual Reality (VR) navigation, telemedicine at the user end, and digital sensing using full HD video transmission in connected autonomous devices like drones and robots. The following section explains why the transition from 5G to 6G is in contrast to its initial claim that it serves as a platform for IoT applications, this system's inherent limitations are being shown. Multiple access techniques are finding it increasingly challenging to keep up with the exponential growth of IoT devices. Consequently, the numerous IoT cannot be supported by the 5G communication systems that are currently in use worldwide. As a result, 6G wireless networks provide a fast, instantaneous, and secure broadband network that enables mass data exchange at various frequencies with a wide range of technologies. In addition, these technologies are moving toward intelligent IoT devices that will require connectivity that is more secure, stable, efficient, and reliable.

CONCLUSION

In order to deal with the inherent complexity of the complex connected devices, a dynamic communication network is required. A capability for self-organization and configuration, as well as cooperation and coordination between the various nodes and communication layers, will eventually be required for the future wireless networks.

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