

Research on Radio over Fiber technology combined with wireless access networks

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Abstract: This topic aims to explore the necessity of Radio over Fiber (RoF) technology in optimizing wireless transmission and access systems. The objective is to build a theoretical and experimental research framework to address the integration of RoF into wireless access networks, thereby enhancing system performance and reliability. The method employs a combination of theoretical analysis and practical application deployment. Through this, the topic expects to provide useful solutions for the future development of multi-frequency transmission technology, making a significant contribution to the research field of wireless networks and optical transmission.

Keywords: Radio over Fiber, Wireless Access Network, Technical Integration, System Performance, Artificial Intelligence