Abstract

As cities’ communication networks develop continuously with new technologies like 4G, the rural areas still remain void of such services. The use of optical fibers for providing broadband network is already being implemented. However, there are some problems faced by the optical fiber communications. This paper will discuss a few advantages of the optical networks and introduce the use of E and V bands for providing point to point wireless backhaul in place of fiber connections. It will also be discussed as to how IoT can use these bands to provide improved services to rural areas thereby bridging the gap between urban and rural parts and fulfilling the concept of Digital India.

References

1. Towards Enabling Broadband for a Billion Plus Population with TV White Spaces, Animesh Kumar, Abhay Karandikar, Gaurang Naik, Meghna Khaturia, Shubham Saha, Mahak Arora, and Jaspreet Singh
Index Terms

Computer Science  Communications

Keywords

IoT, Optical fibers, E and V bands, rural areas