Special Issue

Next Generation Communication Network Using Advanced LiFi Technology

Message from the Guest Editor

In the next-generation wireless communication, an immense number of heterogeneous devices and services will request ultra-reliable, massively connected, and exceptionally high-speed data links. Hence, new forms of communication technologies and architectures have been researched actively in both industry and academia. Light fidelity (LiFi) is a wireless technology based on visible-light communications (VLC), and it is acknowledged as a promising technology enabling an array of innovative applications, including immersive VR/AR, Gb/s class mobile broadband communications, artificial intelligence (AI)-based services, and autonomous driving. Recently, the feasibility of Tbps wireless LiFi links with optimized optical devices. Additionally, the use of machine learning-based spectrum sharing for building future LiFi networks with considerably enhanced quality of service (QoS) and level of security.

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