

Special Issue

Integration of Satellite-Aerial-Terrestrial Networks

Message from the Guest Editors

Due to the seamless connectivity and high data rate, aerial and space communication has been viewed as a key element to bring real-time, higher-capacity communication and wider coverage in the connection and deployment of a plethora of applications such as wireless sensor networks, space-based cloud for big data, and vehicular ad-hoc networks. It is viewed as a key element in emergency rescue for earthquakes and fire disasters as well as transoceanic communication that current terrestrial communications cannot cover.

Space and aerial communication is the key point of the B5G networks, which have already attracted a great deal of attention. Nevertheless, owing to the inherent nature of satellite broadcasting and the coverage of huge areas, aerial and space communications can easily be exposed to various security issues. Secure information transmission has aroused extensive interest from the wireless communications community in order to prevent eavesdroppers from taking advantage of the broadcast nature of the radio propagation medium to intercept confidential messages.

The theme of this topic is to investigate transmission secrecy in aerial and space communication.

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