## **Special Issue**

# Terrestrial Satellite Communication Networks

#### Message from the Guest Editors

The integration of terrestrial and satellite communication networks, as a promising network architecture of future 6G, is indeed gaining significant attention due to its expansive coverage, seamless connectivity, and ability to facilitate collaborative interactions across different domains. This integration is propelling the development of networks towards 6G ondemand services, thereby expanding and enhancing the breadth and efficiency of these services. However, such integration introduces challenges of network heterogeneity and the diverse demands of services, which necessitate efficient management of multidimensional resources in both terrestrial and satellite networks. This Special Issue aspires to delve into the challenges brought forth by network heterogeneity and the diversification of business requirements in future terrestrial and satellite communication networks. The themes can encompass anything from network architecture design to granular issues. Thus, research on resource management and allocation strategies, the integrated design of sensing and communication, and physical layer security algorithms within integrated satellite-terrestrial networks are welcome.

#### **Guest Editors**

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#### Editor-in-Chief

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