

Special Issue

Emerging Trends in Space–Air–Ground Integrated Networking and Communication Systems

Message from the Guest Editors

As society undergoes a comprehensive transformation towards intelligence and digitalization, the demand for truly ubiquitous and seamless connectivity is extending beyond terrestrial boundaries. This has led to the emergence of Space–Air–Ground Integrated (SAGI) Networking as a key paradigm for future sixth-generation (6G) systems. This Special Issue aims to explore the new network paradigms required as we transition from fifth-generation (5G) to 6G, with a specific focus on the architecture, technologies, and applications of SAGI systems. SAGI networks, by deeply integrating satellite constellations, unmanned aerial vehicle (UAV) swarms, and terrestrial communication networks (including radio access networks and mobile vehicle networks), are uniquely positioned to meet these challenges. Furthermore, the pervasive presence of dense, intelligent Internet of Things (IoT) devices and user devices within this integrated network opens up new possibilities. In addition, these advanced SAGI networks are expected to deeply integrate such as Integrated Sensing and Communication (ISAC), Intelligent Reflecting Surfaces (IRS), terahertz (THz) communications, and massive MIMO.

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

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