

Special Issue

Advanced AI and Optimization Solutions for Integrated 6G Non-terrestrial Networks

Message from the Guest Editors

Future 6G communication networks are envisioned to be intelligent, reliable, and able to support unprecedented requirements that cannot be fulfilled by 5G. As some of the key enabling technologies of 6G communication, non-terrestrial networks (NTN), including low-Earth orbit (LEO) satellite systems, unmanned aerial vehicles (UAV), and high-altitude platforms (HAP), will play important roles in achieving ubiquitous coverage, seamless connectivity, and low-cost data access. With the integration of 6G terrestrial and non-terrestrial network components into multi-dimensional and time-varying networks, it is fundamental to investigate the inherent characteristics of this new network paradigm and develop novel algorithmic solutions to achieve high-rate, reliable, low-latency, and massive connectivity performance. The goal of this Special Issue is to bring efficient and high-quality artificial intelligence (AI) and optimization solutions for future 6G communications and networking.

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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