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

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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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Message from the Editor-in-Chief

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