

Special Issue

Sustainability of Future Satellite Communications: Opportunities and Challenges for 6G and Beyond

Message from the Guest Editors

The purpose of this Special Issue is to draw the attention to related research topics from various research communities, e.g., from the engineering, environment, and economic communities, and to help build a sustainable solution together for the unconnected in the 5G/B5G eras. To the best of our knowledge, this research theme has not been fully discussed in the literature. The following is a (non-exhaustive) list of topics of interest:

- Techno-economic analysis of large satellite constellations;
- Sustainability issues of large satellite constellations;
- Economic sustainability evaluation of large satellite constellations;
- Space sustainability evaluation of large satellite constellations;
- Environmental sustainability evaluation of large satellite constellations;
- Sustainable solutions/ideas for large satellite constellations;
- Responsible investment for large satellite constellations;
- Technological development for large satellite constellations;
- Novel management schemes for large satellite constellations;
- Sustainable infrastructures for large satellite constellations;
- Challenges and opportunities of developing sustainable large satellite constellations.

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I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

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