

Special Issue

Sustainability for Next Generation Smart Networks

Message from the Guest Editors

Energy-efficient communications represent one of the hot topics of academic and industrial research in recent years, particularly in light of the current high energy costs. Meanwhile, the number of always-on connected devices has been growing at an outstanding pace over the last decade, in turn contributing to the growing energy footprint. As a countermeasure, numerous green radio systems have been proposed with efficient algorithms, including scheduling and low-power modes. Promising energy-efficient techniques are being proposed for systems which go beyond 5G, as well as the emerging 6G systems that intelligently optimise their PHY and MAC layers and often exploit machine learning. Research on improving the efficiency of harvesting electromagnetic energy from surrounding wireless networks, solar/artificial lighting, heating, and wireless power transfer is also ongoing.

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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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