



Developing Sustainable and Energy-Efficient Telecommunication Systems

Guest Editors:

Prof. Dr. Jose Carlos Marinello

Departamento Acadêmico de
Elétrica (DAELE), Universidade
Tecnológica Federal do Paraná,
Cornélio Procópio, Brazil

Prof. Dr. Taufik Abrão

Electrical Engineering
Department, State University of
Londrina (UEL), Londrina, Brazil

Deadline for manuscript
submissions:

31 January 2025

Message from the Guest Editors

Climate changes have been reaching alarming levels, resulting in it being urgent to limit global warming and reduce the emission of greenhouse gases. Telecommunication systems are responsible for a significant fraction of global energy consumption. Therefore, it is paramount to design future telecommunication systems as highly energy-efficient and sustainable technologies able to coexist in a green environment.

Developing energy-efficient telecommunications systems is a target involving many different aspects. This Special Issue focuses on developing highly energy-efficient telecommunication systems. We encourage the contribution of original papers addressing different aspects of communication systems optimized from the perspective of improving energy efficiency. We also welcome original research applying machine learning tools to optimize the energy efficiency of communication systems.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and
Applied Science, University of
Ontario Institute of Technology,
Oshawa, ON L1G 0C5, Canada

Message from the Editor-in-Chief

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. *Sustainability* publishes original research articles, review 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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, AGRIS, RePEc, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Environmental Studies*) / CiteScore - Q1 (Geography, Planning and Development)

Contact Us

Sustainability Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sustainability
sustainability@mdpi.com
[X@Sus_MDPI](https://twitter.com/Sus_MDPI)