

Special Issue

Geospatial and Emerging Technologies for Sustainable Energy Efficiency

Message from the Guest Editor

In an era of rapid urbanization and rising energy demand, deploying sustainable energy efficiency strategies is of fundamental importance for decisionmakers seeking to accelerate decarbonization while improving the quality of life of ordinary citizens. Consequently, this Special Issue on “Geospatial and Emerging Technologies for Sustainable Energy Efficiency” focuses on how geospatial and other emerging technologies can contribute to improvements to energy performance for buildings, infrastructure, and cities. The scope includes, but is not limited to, GIS and CIM for multi-scale energy analytics; BIM for building energy efficiency; IoT sensors for real-time energy monitoring; AI/GeoAI for predictive control, demand forecasting, and anomaly detection; and smart city platforms that integrate these layers to support low-carbon operations. The purpose of this Special Issue is to advance interoperable methods, datasets, and case studies that evaluate sustainable energy efficiency outcomes and support their implementation in real-world practice.

Guest Editor

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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. 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.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

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