Special Issue

Smart Cities and Energy Efficiency: Spatiotemporal Big Data Analytics for Sustainable Urban Development

Message from the Guest Editor

This Special Issue explores the dynamic intersection of Geo-Big Data and smart city development, emphasizing how spatial and temporal data can drive innovative solutions to urban challenges, particularly those related to energy efficiency. With a focus on enhancing the quality of life, the collection aims to bring together research on the integration of smart technologies, artificial intelligence (AI), and Big Data analytics to support sustainable and efficient urban energy systems. Contributions are sought that examine how human activities and geographic phenomena influence—and are influenced by—spatiotemporal development patterns, offering valuable insights into energy-aware planning, sustainable mobility, resilient infrastructure, and smart governance. Submissions may include case studies, large-scale assessments, and field-based insights that provide a comprehensive understanding of the benefits, challenges, and real-world applications of these technologies. This Special Issue aims to serve as a resource for academics, industry professionals, and policymakers interested in the sustainable evolution of urban environments through digitalization and smart innovation.

Guest Editor

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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