Special Issue

Sustainable Innovation: Integrating Green Computing, Renewable Energy and Smart Power Systems

Message from the Guest Editor

This Special Issue aims to offer green energy and advanced technology solutions, such as hardware design and algorithms integrated into renewable energy sources. Two concepts are included as the sustainable technology and the world of data, the Internet of Things. or the proper use of Al. Nanotechnologies allow us to develop smart solutions that optimize resource usage, minimize impact, and develop more sustainable technologies. Advances in the digital transformation framework can substantially contribute to energy consumption and carbon emissions. Green Data Center technologies are addressed to such sustainability challenges, integrating energy-efficient designs, renewable energy, and waste-heat recovery solutions that focus on intelligent management systems, monitoring, predictive analysis, and optimized energy management, helping operators to minimize cooling needs, reduce inefficiencies, and maximize renewable energy use. Optimized energy management using nextgeneration materials, smart grids, and the integration of renewable energy and smart technologies can provide a significant impact on environment systems.

Guest Editor

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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.

Editor-in-Chief

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