

Special Issue

Digital Transformation for a Sustainable World: Trends and Challenges

Message from the Guest Editors

Digital transformation is revolutionizing the world in many ways, and its integration with sustainability has been recently observed in different areas. A notable trend in this trajectory is the adoption of cutting-edge technologies, such as the Internet of Things (IoT) and Artificial Intelligence (AI), to monitor, optimize, and automate processes in various key sectors, such as agriculture, energy, transport, and waste management. These advancements enable the real-time collection of data, and data-driven decision making, leading to, among others, reduced resource waste and decreased emission of pollutants. A crucial step in this direction involves the transition to clean energy sources, essential for curbing the global carbon footprint and combating climate change. In this area, digital disruption can play an essential role, particularly in the intelligent management of electricity grids, enabling the efficient integration of intermittent renewable energies and energy storage to guarantee supply stability.

Guest Editors

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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. *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.

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