

Special Issue

AI-Driven Smart Sensing and Non-Destructive Testing for Sustainable Innovation: Enhancing Environmental Sustainability and Technological Progress

Message from the Guest Editors

This Special Issue invites contributions from scholars working at the forefront of sustainable innovation, focusing on the development of methodologies, models, and systems that harness artificial intelligence (AI), non-destructive testing (NDT), and advanced sensing technologies. Our goal is to drive environmental sustainability through intelligent monitoring, predictive diagnostics, and resource-efficient solutions. We aim to collect pioneering research that demonstrates how AI-powered sensors and NDT techniques can enable early fault detection, optimize maintenance, extend the life cycle of infrastructures, and reduce environmental impact. By promoting smart, non-invasive, and energy-conscious technologies, this Special Issue seeks solutions that adhere to the UN's Sustainable Development Goals (SDGs) and offer scalable strategies for preserving natural resources while fostering technological progress. This Special Issue will enrich the existing literature by bridging the gap between environmental sustainability and technological innovation, showcasing integrated approaches that are essential for building a greener and smarter future.

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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. *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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