# **Special Issue**

# Al-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), nondestructive 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 Alpowered 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 energyconscious 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.

### **Guest Editors**

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### Deadline for manuscript submissions

31 July 2026



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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

Prof. Dr. Steve W. Lyon

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