

Special Issue

Smart Technologies and Digital Methods for Advanced Environmental Remediation

Message from the Guest Editors

This issue links modern digital tools (sensing, ML, geospatial analytics, simulations, automated monitoring) with environmental remediation to address diverse contaminants. It focuses on enhancing detection, assessment, and restoration of degraded environments for precise, efficient outcomes. **Scope:** Research, methods, case studies, reviews merging computational/data techniques with biological/physicochemical remediation. Covers: remote sensing/GIS for contaminant mapping; ML/predictive models for performance; digital twins/sensors/UAVs for monitoring. Includes pollutants (heavy metals, PFAS, etc.) across environments, prioritizing sustainability/cost-effectiveness. It unites experts to advance digital-enabled remediation. Bridging traditional remediation (biological/chemical) and digital sciences (monitoring-focused), this issue shows digital innovations guide decisions, boost detection, speed timelines, and build resilience—defining data-driven remediation’s new frontier.

Guest Editors

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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. 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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