

Special Issue

Business Analytics for Sustainable Business Innovation and Resilient Value Chains

Message from the Guest Editor

Digital transformation, rapid advances in AI, and the growing availability of enterprise data have created new opportunities for advancing business sustainability. This Special Issue focuses on integrating business analytics, statistical learning, and data mining to support corporate sustainability, improve resource efficiency, enhance ESG decision-making, and strengthen resilience in global value chains. Recent developments—such as generative AI for supply-chain forecasting, interpretable machine learning for ESG risk detection, and multi-objective optimization for low-carbon operations—highlight the increasing role of data-driven intelligence in sustainable business innovation. We welcome high-quality research that connects analytics with sustainability, offering methodological contributions and practical insights. Topics include predictive and prescriptive analytics, sustainability performance modeling, ESG assessment, anomaly detection for green compliance, and AI-supported decision systems. Both conceptual studies and empirical research across industries are encouraged.

Guest Editor

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Deadline for manuscript submissions

30 April 2027



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/274964

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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.

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Prof. Dr. Steve W. Lyon

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