

Special Issue

Innovative Approaches and Sustainable Practices in Concrete: Integrating Artificial Intelligence for Enhanced Sustainability

Message from the Guest Editor

The construction industry is at a pivotal moment, facing increasing demands for sustainable practices and innovative materials to meet environmental challenges and enhance building performance. This Special Issue will explore the latest advancements in and research on the sustainable development of concrete, with a particular focus on the integration of artificial intelligence (AI) to drive innovation and efficiency. Topics will include the development of eco-friendly concrete mixtures, the utilization of waste and recycled materials, advancements in material efficiency, and the role of AI in optimizing mix design, predicting performance, and enhancing quality control. By bringing together cutting-edge research and practical applications, this Special Issue will provide a comprehensive overview of the prospects and challenges involved in creating more sustainable and intelligent concrete solutions. We invite researchers and practitioners to contribute their insights and findings, encouraging scholarly collaboration to enable more sustainable and resilient construction practices.

Guest Editor

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Deadline for manuscript submissions

closed (28 October 2025)



Sustainability

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Impact Factor 3.3
CiteScore 8.9



mdpi.com/si/207333

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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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