

Application of Cold-Formed Steel in Structural Engineering

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Message from the Guest Editors

Dear Colleagues,

This Special Issue, entitled "Application of Cold-formed Steel in Structural Engineering", aims to explore the versatile and increasingly prevalent use of cold-formed steel in various structural engineering applications. This topic will delve into the advancements, challenges, and opportunities presented by cold-formed steel, which offers a sustainable, cost-effective, and aesthetically appealing alternative to conventional construction materials. The Special Issue will welcome the submission of articles that focus on innovative design methodologies, numerical simulations, experimental studies, and case studies, elucidating the unique attributes and performance of cold-formed steel structures. Emphasis will be placed on exploring its application in diverse structural systems, including beams, columns, frames, trusses, and other elements. Contributions addressing material behavior, design codes, connections, sustainability, and seismic performance will further enrich the discussion.



Editor-in-Chief

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Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

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