



Design Theory of Steel-Concrete Composite Structure and Construction Technology of Complex Structure

Guest Editor:

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Message from the Guest Editor

Steel–concrete composite structures combining the advantages of steel and concrete materials provide an economical and efficient structure form for buildings, bridges, and other civil engineerings.

In this Special Issue, submissions regarding the up-to-date developments and applications of steel–concrete composite structures on theoretical analysis, experimental study, and construction technology are welcome. The scope encompasses, but is not restricted to, structural load-carrying performance, dynamic behavior, fire performance, numerical analysis, interface bond behavior, design method, high-performance materials, structural health monitoring, and construction technology of steel–concrete composite structures.

This Special Issue wishes to complement theoretical developments and rich construction technology, so as to promote the application of steel–concrete structures in practice engineerings. Therefore, we particularly welcome the relevant contributions.

For scholars interested to submit papers to the Special Issue, please click “Submit to Special Issue” or contact Astoria Yao: astoria.yao@mdpi.com.



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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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