Special Issue

Advances in Methods for Performance Characterization and Prediction of Reinforced Concrete—2nd Edition

Message from the Guest Editors

Reinforced concrete is essential for buildings and construction. However, conventional concepts and approaches to the performance characterization and prediction of reinforced concrete are not always appropriate for the current requirements of durability and toughness in civil engineering. Notwithstanding the enormous efforts of academic researchers and the industry, a general solution for performance characterization under exceptional conditions (e.g., dynamic loads, freeze-thawing) and high-efficiency performance prediction needs to be discussed further. Several relevant studies have already been published in the first volume of this Special Issue. You can find them at the following link: [https://www.mdpi.com/journal/buildings/special_issues/0F862UJ9JK]. This Special Issue aims to collect both original research and review articles regarding innovative methods for the performance characterization and prediction of reinforced concrete materials and structures. For more information, please click on the special issue link: https://www.mdpi.com/journal/buildings/special_issues/I28OPCY71S

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About the Journal

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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