# Special Issue

# Rehabilitation and Reconstruction of Buildings

### Message from the Guest Editors

In recent years, Europe has faced worsening environmental deterioration and ecological and other environmental challenges; efforts to transform waste materials into secondary raw materials through reduction, re-use and recycling have thus been ongoing. The Rehabilitation and Reconstruction of Buildings conference will focus on this topic. The conference is especially dedicated to highlighting new building materials and technologies in civil engineering, and their design, preparation and properties in the context of ecological deterioration. Newly designed materials include those designed for decreasing energy consumption, environmental improvement and the preservation of cultural heritage. Their design is, in many cases, centered around secondary raw materials. The properties of such materials are of particular interest (physico-mechanical, physico-chemical), as are observations of and improvements in the design, and their resistance to different conditions (sulfuric, carbonate, corrosion processes). Designed materials (composites) can be polymer-based, silicate-based (e.g., cement, lime) and utilize various fillers (including nonorganic and organic).

### Guest Editors

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Prof. Dr. Pavel Krivenko

### Deadline for manuscript submissions

closed (20 December 2023)

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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.

### Editor-in-Chief

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