





an Open Access Journal by MDPI

# Novel Ecofriendly Repair and Rehabilitation Techniques for Deteriorated Structures and Building Components

Guest Editors:

### Prof. Dr. Gobinath Ravindran

Department of Civil Engineering, SR University, Warangal, Telangana, India

#### Dr. Isaac Akinwumi

Department of Civil Engineering, Covenant University, Ota, Nigeria

## Dr. Sridhar Jayaprakash

Department of Civil Engineering, GMR institute of Technology, Raiam. India

Deadline for manuscript submissions:

closed (10 April 2023)

## **Message from the Guest Editors**

Environmental awareness is gaining impetus among the population, and this is also reflected in the management of deteriorated structures. Structural deterioration not only causes instability but also affects its real-time usage. Novel structural rehabilitation measures have been invented across the globe, but the processes have not yet been disseminated properly. Further, the environmental impacts of repairing materials have not been studied properly, and it is the need of the hour to understand their real impact. This Special Issue focuses on promoting and disseminating materials, tools, and techniques related to the repair and rehabilitation of older structures and building components in an ecofriendly manner. Topics to be covered include:

- Novel repair methods for deteriorated structures;
- Ecofriendly retrofitting methods;
- Software-based analysis for retrofitting;
- Low-density and low-weight materials for retrofitting;
- Retrofitting for older structures;
- Supplementary cementitious materials and their applications;
- High-strength materials for novel retrofitting;
- Environmental impact of repairing materials;
- Geomaterial innovation for repair and rehabilitation.



**Special**sue







an Open Access Journal by MDPI

## **Editor-in-Chief**

#### Prof. Dr. David Arditi

Construction Engineering and Management Program, Department of Civil, Architectural, and Environmental Engineering, Illinois Institute of Technology, 3201 South Dearborn Street, Chicago, IL 60616, USA

## 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, 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.

### **Author Benefits**

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Inspec, and other databases.

**Journal Rank:** JCR - Q2 (*Engineering, Civil*) / CiteScore - Q1 (Architecture)

### **Contact Us**