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# New Trends in Sustainable Concrete and Its Structural Applications, 2nd Edition

Guest Editors:

#### Prof. Dr. Seung-Yup Jang

Department of Transportation System Engineering, Graduate School of Transportation, Korea National University of Transportation, 157, Cheoldobangmulgwan-ro, Uiwang 16106, Gyeonggi-do, Republic of Korea

#### Prof. Dr. Seung-Jun Kwon

Department of Civil and Environmental Engineering, Hannam University, Daejeon 34430, Republic of Korea

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## **Message from the Guest Editors**

Sustainability is very important to the continued growth of our society and human civilization. In particular, cement, a main constituent material of concrete, emits a large amount of CO2 and other greenhouse gases, so it constitutes the most important axis of the sustainability issue. In addition, due to restricted natural resources, the constituents of concrete are gradually depleted. To address this sustainability issue in concrete construction, new innovative technologies have been developed in the last decades. Recently, limestone calcined clay cement is being spotlighted as one of the alternative types of cement with lower CO2 emissions. All concretes that utilize these technologies can be called "sustainable concrete," but sustainable concrete is not limited to just cement and constituent materials; it can be extended to technologies related to the entire cycle of concrete manufacturing, construction, operation, and disposal.

From these viewpoints, subjects that will be dealt with in this Special Issue will focus on recent trends in sustainable concrete research, and also case studies that prove the structural performance of sustainable concrete.











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#### **Editor-in-Chief**

# **Prof. Dr. Giulio Nicola Cerullo**Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

## **Message from the Editor-in-Chief**

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