



Innovative Solutions for Concrete Applications

Guest Editor:

Patricia Kara De Maeijer

Energy & Materials in
Infrastructure & Buildings (EMIB),
Faculty of Applied Engineering,
University of Antwerp, 171
Groenenborgerlaan, 2020
Antwerp, Belgium

Deadline for manuscript
submissions:

31 October 2024

Message from the Guest Editor

Concrete is an incredible human-made material which has been evolving for more than 2000 years and will continue to transform from self-healing to Martian in the years to come. Concrete is the second most used material after water on Earth, and this material may become the best building material in the Solar System. Traditional concrete is not an environmentally friendly material to make or use and is also impervious; therefore, eco-friendly forms of concrete are currently being developed. The last decade has brought a splendid innovation into concrete development: self-healing concrete, innovative 3D printing of unusual concrete structures geometries, UHPC, AAMs etc.

This Special Issue, “Innovative Solutions for Concrete Applications”, aims to provide an overview of current innovative tendencies in concrete technology and structures, which have the potential to be implemented in the industry in the future, covering all recent developments in the construction sector.

Keywords: concrete; AAMs; mix design; waste and byproduct recycling in construction materials; 3D printed concrete; real-time monitoring; structures; survey





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Editor-in-Chief

Dr. Pedro Arias-Sánchez

Applied Geotechnologies Group,
Department of Natural Resources
and Environmental Engineering,
School of Mining Engineering,
University of Vigo, 36310 Vigo,
Spain

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MDPI, Grosspeteranlage 5
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