Special Issue

Ultra High Performance Concrete (UHPC): Current and Future Research

Message from the Guest Editor

Ultra High Performance Concrete (UHPC) is a cementitious material that is providing new horizon in constructed facilities and allowing development of innovative solutions to many structural engineering problems that even few years ago seemed challenging. The durability aspect of UHPC makes it a material of choice where service life design of constructed facilities, such as bridges, takes on a high priority. In recent years, the advancement in the field of UHPC has progressed in many fronts. The unit cost of UHPC is being reduced, mainly because of development of Non-Proprietary UHPC. This trend will continue. Development of Non-Proprietary UHPC, now makes UHPC, more than ever a material of choice. Application of UHPC has varied greatly, from non-structural applications, such as cladding in high rise building to connections for pre-fabricated bridge elements. High Compressive strength, high tensile strength, significant post cracking ductility and excellent bond characteristic of UHPC, allows using UHPC strategically and develop completed structures that are economical and long lasting. Additive manufacturing or 3-D printing is a new frontier for application of UHPC.

Guest Editor

Dr. Atorod Azizinamini

Department of Civil and Environmental Engineering, College of Engineering and Computing, Florida International University, Miami, FL, USA

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Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

mdpi.com/journal/materials

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Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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