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Cutting-Edge Additive Manufacturing Technologies for Construction Applications

Guest Editors:

Dr. Pshtiwan Shakor

School of Civil and Environmental Engineering, Faculty of Engineering and Information Technology, University of Technology Sydney, Broadway, NSW 2007, Australia

Dr. Alireza Kashani

School of Civil and Environmental Engineering, Engineering Faculty, University of New South Wales, Kensington, NSW 2052, Australia

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Message from the Guest Editors

Additive Manufacturing (AM) technologies are the most suitable technologies for construction applications in the fourth industrial revolution. These techniques such as extrusion printing, binder jetting (inkjet) printing, powder bed fusion, robocasting and smart dynamic casting are among the most usable printing techniques construction applications. These techniques could be used to create 3D printing composite materials in the cast-insitu or precast structures, this will be highly efficient to make a sustained environment. However, there are limited studies that could be found on this topic. This special issue could assist researchers, engineers and scientists to share their new conceptual, experimental, theoretical and numerical methods of AM technology in order to optimise the materials mix and process. Accordingly, selecting proper materials and AM technologies could be measured as a vital stage to increase the potential of 3D printing for construction applications.

Keywords: additive manufacturing; extrusion 3DP; binder jetting 3DP; powder bed fusion; construction materials; construction application; curing; post-processing











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Editor-in-Chief

Prof. Dr. Giulio Nicola CerulloDipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

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