

Special Issue

Automation and Digital Fabrication in the Building Construction Process

Message from the Guest Editor

The building construction sector is undergoing one of the most profound transformations of its history. In particular, the “Digital Transition” of the building sector is profoundly changing building technologies and construction processes. Even if the innovation process still remains scattered and not really organized, automation and digital fabrication are certainly playing a significant role in this transformation and will be fundamental tools for the buildings of the future. In this context, the use of computer-aided design (CAD) has become extremely popular over the past decade. In addition, in recent years, the advent of modern technologies of the Industry 4.0 has allowed the wide diffusion of computer-aided manufacturing (CAM) techniques in the building sector. In CAM, machines such as lathes, laser cutters, and milling machines (also integrated in powerful robotic arms) are directed by a computer to perform complex digital fabrication (a process called numerical control—CNC)...

Guest Editor

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