

Special Issue

Innovative Manufacturing Technologies in Architecture and Structural Engineering

Message from the Guest Editors

Welcome scholars to submit their recent research results to this Special Issue. The suitable article themes include, but are not limited to, the following:

- Additive manufacturing for large-scale structures;
- Innovative, advanced manufacturing;
- Theories, techniques, and methods of robotic fabrication;
- Metal additive manufacturing;
- 3D-printed concrete;
- Automatized constructions;
- Multi-material building components;
- Large-scale digital fabrication;
- Advanced modelling methods;
- Design-to-production (D2P) strategies;
- Constitutive models for additively manufactured materials;
- Computational design tools;
- AM material testing;
- Mechanical properties of AM materials.

Guest Editors

Dr. Michele Palermo

Prof. Dr. Norman Hack

Dr. Roberto Naboni

Dr. C. Goulas

Dr. Vittoria Laghi

Deadline for manuscript submissions

closed (20 March 2023)



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About the Journal

Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

Editor-in-Chief

Prof. Dr. David Arditi

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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.9 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).