Deadlines

Abstract submission | 10 January 2022
Abstract acceptance | 24 January 2022
Full paper submission | 14 March 2022
Full paper acceptance | 14 April 2022
Final paper submission | 23 May 2022

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INTERNATIONAL CONFERENCE

TECHNOLOGICAL IMAGINATION
IN THE GREEN AND DIGITAL TRANSITION

Sapienza University of Rome
Faculty of Architecture

30 June - 1 - 2 July 2022

Concept

The convention addresses the pressing need for sustainability in urban development over the medium and long terms, with cities to serve as *the main stage for strategies* that seek to meet the targets and the cross-sector priorities indicated in the EU's Next Generation program, all in pursuit of a solid recovery on the part of the European economy, along lines of ecological transition, digitalisation, competitiveness, training and inclusion to overcome social, territorial and gender differences.

The international study encounter is meant to *promote visions shared by architectural technology and other disciplines*, which, though they may appear to differ, are closely interconnected, with the aim of achieving an open, interdisciplinary integration capable of proposing concrete projects regarding topics held to be of strategic importance to the future of the built environment. These are identified to draw up evolving scenarios of architecture and cities suited to reflection, at various levels, on innovative models of process and product.

Conference Sessions

1. Innovation | Digital world for real cities

Chairs | Anna Maria Giovenale, Fabrizio Cumo

The subject matter of the session is limited to the following **topics**:

1a. ICT Innovations in Architecture and Civil Engineering;
1b. Digital Transformation & The Role of Enterprise Architecture;
1c. Advances in Digital Engineering, Computing and Simulation for the AEC Industry;
1d. Innovative Digital Technologies and Engineering Systems (e.g. Digital Twins);
1e. Project Management in design and construction processes;
1f. Advances in digital engineering, computing and simulation;

2. Technology | "Printed" buildings for sustainable habitats

Chair | Eugenio Arbizzani

The subject matter of the session is limited to the following **topics**:

2a. Advanced Construction Technology;
2b. Positive energy buildings, impact on the built environment;
2c. Robotics and innovation in building construction and regeneration;
2d. Architecture and advanced building materials and technologies;
2e. Offsite prefabrication and field factories;
2f. New construction methods and aesthetics of smart buildings and cities;

3. Environment | Technological innovation for low tech environments

Chair | Carola Clemente

The subject matter of the session is limited to the following **topics**:

3a. Actions and policies to implement sustainable construction;
3b. Circular Economics in Building Design;
3c. Design and technologies for energy efficiency and conservation;
3d. Positive Energy Districts for Sustainable Urban Development;
3e. Environmental Management Systems (EMSs);
3f. Environment, Energy and Technology;

4. Climate | Effective solutions for resilient urban habitats

Chair | Eliana Cangelli

The subject matter of the session is limited to the following **topics**:

4a. Design for Climate Change and Climate Neutral Habitats;
4b. Sustainable Urban Development and Land Use;
4c. Urban Density, Energy and Green and Blue Infrastructures;
4d. Resilient Design for the Built Environment;
4e. Technological and Digital Solutions for Architecture and Cities;
4f. Sustainable Reuse and Upcycling of Existing Building Stock;

5. Health | Environments for healthy living

Chair | Francesca Giofrè

The subject matter of the session is limited to the following **topics**:

5a. Public and Urban Health;
5b. Designing inclusive, accessible Environments;
5c. Green and open spaces;
5d. Designing for people with fragility;
5e. Healthy Individual buildings and building types;
5f. The Internet of Things in Healthcare and Public Buildings;