

Sustainable Architecture Regards to Global Challenges: Implementation and Evaluation

Guest Editors:

Dr. Łukasz Mazur

Konstancińska 1, 02 942 Warsaw,
Poland

Prof. Dr. Anna Bać

Faculty of Architecture, Wrocław
University of Science and
Technology, Bolesława Prusa
53/55, 50 317 Wrocław, Poland

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Message from the Guest Editors

This Special Issue invites all kinds of integrated research that are aimed at real problem-solving through sustainable architecture. We invite designers, researchers and educators to exchange their knowledge and experience in order to improve the natural and built environment for future generations. Potential topics include, but are not limited to:

- Low energy and low carbon buildings;
- The embodied energy of materials;
- The whole life cycle of buildings;
- Zero waste constructions;
- Environmental impact assessment;
- Resilient cities and urban growth;
- Energy-efficient and sustainable technologies;
- Education towards and beyond sustainability.

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Special Issue

Editor-in-Chief

Prof. Dr. David Arditi

Construction Engineering and
Management Program,
Department of Civil,
Architectural, and Environmental
Engineering, Illinois Institute of
Technology, 3201 South
Dearborn Street, Chicago, IL
60616, USA

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.

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Buildings Editorial Office
MDPI, St. Alban-Anlage 66
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