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Building Tomorrow: Revolutionary Materials for Sustainable Construction

Guest Editors:

Dr. Krishanu Roy

Civil Engineering, The University of Waikato, Hamilton 3240, New Zealand

Dr. G. Beulah Gnana Ananthi

Department of Civil Engineering, Anna University, Chennai 600025, India

Dr. Zhiyuan Arthur Fang

School of Engineering, University of Waikato, Hamilton 3216, New Zealand

Deadline for manuscript submissions:

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Message from the Guest Editors

The key themes of this Special Issue include (but are not limited to) the following:

- Natural and sustainable building materials;
- Waste-incorporating building materials;
- Innovative, adaptive building skins;
- The hygrothermal and acoustic performance of innovative materials/systems;
- Sustainable materials for rehabilitation, retrofitting, and refurbishment;
- Bio and healthy building research;
- Energy use and climate;
- Sustainable urban development;
- The energy efficiency of hybrid cold-formed steel sections:
- Sustainability and the life-cycle assessment of buildings;
- The energy efficiency of houses made of steel;
- Lightweight housing using steel and composite structures:
- Innovative construction systems using lightweight materials for sustainability;
- 3D printing and integrating 3D printing technology in construction;
- Concrete/steel as a recyclable material;
- Detailed requirements for alternative technology;
- Whole-of-life embodied carbon;
- Operational energy;
- Other topics lated to the performance of innovative builting in a cale, elated to inclogies.



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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

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the future.

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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 challenges, including maintenance. enormous interconnectivity, resilience, energy efficiency. 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

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Buildings Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/buildings buildings@mdpi.com X@Buildings_MDPI