



Modern Material and Methods for Infrastructures

Guest Editors:

Dr. Afaq Ahmad

Department of Civil Engineering,
University of Engineering and
Technology, Taxila, Rawalpindi
46600, Pakistan

Dr. Mohamed Shaheen

School of Architecture, Building
and Civil Engineering,
Loughborough University,
Loughborough, UK

Dr. Mohamed Suleiman

Department of Civil,
Environmental and Geodetic
Engineering, Ohio State
University, USA

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Message from the Guest Editors

Engineers have been continuously striving to improve the efficiency of conventional material, solutions, and the testing methodology used for infrastructure. In recent times, with advances in material science, different composite materials have been introduced in the construction industry. The traditional methods of underlying theories and testing methods cannot be performed. Additionally, in other places, these modern materials may be exposed to extreme natural or non-natural loading circumstances during their service life, which can cause tremendous fatalities and property loss in terms of infrastructure.

The relevant topics include but are not limited to:

- Innovative materials for infrastructures: cement replacement material, strengthening materials (HFRC and FRP, etc);
- Composite materials for geotechnical engineering;
- Engineering cementitious material;
- Modern theory for composite materials;
- Computational mechanics;
- Monitoring of infrastructures through novel techniques;
- Artificial Intelligence for infrastructures;
- Soft computing methods for infrastructures





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Editor-in-Chief

Dr. Pedro Arias-Sánchez

Applied Geotechnologies Group,
Department of Natural Resources
and Environmental Engineering,
School of Mining Engineering,
University of Vigo, 36310 Vigo,
Spain

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Contact Us

Infrastructures Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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