



Composite Systems for Structural Strengthening

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Message from the Guest Editors

Increasing experimental evidence is available for the use of composite materials such as fibre-reinforced polymers, textile-reinforced mortar or fabric-reinforced cementitious mortar and composite-reinforced mortar. Composites are suitable for retrofitting the structural and the non-structural elements in constructions fields.

The research in the field of new materials is of crucial interest for these reasons. The proper design of such composites depends on the knowledge in the characterization and applications, since the symbiotic behaviour of the constituents (fabric and matrices) and their interaction with the substrate are both very variable. The topics of Special Issue on “Composite Systems for Structural Strengthening: Design, Testing and Application” include but are not limited to the following:

- Characterization of inorganic-based materials;
- Admixtures and additives;
- Alternative and sustainable binders and geopolymers;
- Materials design;
- Numerical simulation for evaluating the strengthening efficiency;
- Performance comparison of inorganic- versus organic-based composites;
- Bond behaviour;
- Laboratory testing.





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Message from the Editor-in-Chief

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