Special Issue

Smart and Durable Inorganic-Matrix Composite Systems for Sustainable Infrastructure Rehabilitation

Message from the Guest Editors

Inorganic-matrix composite systems such as Textile-Reinforced Mortar (TRM), Fabric-Reinforced Cementitious Matrix (FRCM), or Composite-Reinforced Mortar (CRM) systems have emerged as promising solutions for the strengthening, rehabilitation, and long-term protection of infrastructure and historic structures. Their compatibility with masonry and concrete substrates, improved durability, and potential for sustainable design have attracted increasing attention in both research and engineering practice. At the same time, growing environmental challenges, climate-driven degradation mechanisms, and the demand for resilient infrastructure have highlighted the need for more advanced approaches to durability assessment and long-term performance prediction. This Special Issue aims to bring together recent advances related to the durability, monitoring, sustainability, and AI-assisted assessment of inorganic-matrix composite systems for resilient infrastructure applications. Contributions addressing experimental, numerical, analytical, and hybrid data-driven approaches are encouraged.

Guest Editors

Dr. Nima Azimi

Dr. Eleni Tsangouri

Dr. Daniel V. Oliveira

Dr. Omid Hassanshahi

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Infrastructures
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
infrastructures@mdpi.com

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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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