

Special Issue

Advanced Seismic Isolation and Resilient Structural Technologies

Message from the Guest Editors

The global construction sector is increasingly prioritizing resilience and safety, spurred on by the escalating frequency of seismic events, evolving environmental conditions, and the demand for durable infrastructure. Breakthroughs in seismic isolation technologies and structural resilience are pivotal to this shift, providing innovative solutions to enhance earthquake resistance, optimize structural performance, and extend service life under extreme conditions. This domain integrates advanced materials, innovative design methodologies, and cutting-edge digital tools to create adaptive and robust built environments. In this light, this Special Issue seeks to highlight the latest advancements in seismic isolation systems, vibration control technologies, and resilient structural designs that bolster infrastructure sustainability and safety. We invite submissions that investigate novel isolation materials, performance optimization under multi-hazard scenarios, modular and prefabricated construction techniques, and digital tools such as finite element analysis and machine learning for seismic design and assessment.

Guest Editors

Dr. Ruijun Zhang

Dr. Yifeng Wu

Dr. Qiang Wang

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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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