Special Issue

Advances in Damage Detection for Concrete Structures

Message from the Guest Editors

Concrete is utilized extensively in construction, serving as a cornerstone of resilient and durable infrastructure. Despite its strength, concrete is vulnerable to damage caused by aging, environmental factors, overloading, fatigue, and extreme natural hazards such as earthquakes, floods, and hurricanes. Accurate and timely damage detection is therefore critical for ensuring the safety, reliability, and extended service life of concrete structures. The field of damage detection has transformed in recent years. Traditional methods such as visual inspection and destructive testing have been complemented by modern approaches, including non-destructive testing (NDT), structural health monitoring (SHM), and finite element analysis (FEA). These tools enable the early identification of damage, the assessment of deterioration, and the prediction of structural performance under various conditions. This Special Issue, entitled "*Advances in Damage Detection for Concrete Structures*", seeks to showcase innovative research and practical applications in damage detection, providing insights into the challenges and opportunities associated with safeguarding concrete infrastructure.

Guest Editors

Dr. Seyed Sasan Khedmatgozar Dolati
Department of Civil and Environmental Engineering, University of Texas at San Antonio, San Antonio, TX 78249, USA

Prof. Dr. Darius Bačinskas
Department of Reinforced Concrete Structures and Geotechnical Engineering, Vilnius Gediminas Technical University (VILNIUS TECH), Vilnius, Lithuania

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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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