

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.

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