



Non-destructive Testing and Evaluation for Civil Infrastructures

Guest Editors:

Dr. Alireza Joshaghani

Texas A and M University, College
Station, TX, USA

Dr. Sattar Dorafshan

Department of Civil Engineering,
University of North Dakota,
Grand Forks, ND, USA

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Message from the Guest Editors

Dear Colleagues,

A comprehensive structural condition assessment and structural safety of civil infrastructure (bridges, roads, buildings, etc.) is not possible without evaluating the material properties (steel, concrete, timber, masonry, etc.) and detecting surface and subsurface defects. Nondestructive evaluation and testing (NDE and T) methods such as impact echo, ground penetrating radar, ultrasonic surface waves, infrared thermography, etc. have been used for this task for the past half century. Despite decades of effort for NDE and T implementation in structural engineering, though, their applications are still somewhat limited, since the raw data associated with these techniques require user expertise. Introducing automation to NDE and T data analysis could alleviate this issue and would pave the way for more popular implementations of the NDE and T techniques in future.

Dr. Alireza Joshaghani

Dr. Sattar Dorafshan

Guest Editors





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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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Infrastructures Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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