

Special Issue

Advances in Structural Health Monitoring of the Built Environment

Message from the Guest Editors

The infrastructure health monitoring community plays an indispensable role in “intelligent city” research, as this community has already experienced monitoring the performance of large infrastructures at the heart of complex urban systems by leveraging advanced sensing and imaging, all aspects of data science, digital twins, uncertainty and human factors. At the same time, the meaningful long-term applications of performance and health monitoring of actual infrastructures, especially in the early diagnosis of their deterioration and damage, are not widely known. We are interested in collecting examples of advances and applications of health and performance monitoring in recent years, especially applications to aging infrastructures as well as emerging systems such as Ocean Wind Farms and intelligent (livable, sustainable and resilient) cities. The main objective is to document the actual state-of-the-art practice, future prospects and the potential of this field of research, especially with examples on actual infrastructures by cross-disciplinary researchers.

Guest Editors

Prof. Dr. Ahmet Emin Aktan

Dr. Branko Glisic

Dr. Carlo Rainieri

Prof. Dr. Ivan Bartoli

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Infrastructures
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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