Special Issue

Advances in NDT: Theories, Techniques, and Engineering Applications

Message from the Guest Editors

Although NDT has been applied in several fields and includes a lot of different techniques like ultrasonic testing, eddy current testing, magnetic particle testing, radioactive testing, and so on, it lacks the understanding of the tested results and the actual conditions especially under the in-service lifecycle. The evolution of the internal defects and its corresponding NDT still requests further study, in particular for the complex structures integrated with composite components. This Special Issue aims to explore the advances of NDT including the theory, techniques, and engineering applications. Rather than concentrating on the, this Special Issue focuses on the NDT of material level and structural level. This Special Issue expects the investigations related to NDT advances from applications in mechanical engineering, civil engineering, numerical studies, and so on. Potential topics include but are not limited to the following:

- Advances in sensing techniques
- Novel inspection methods for NDT
- Structural health monitoring with NDT
- Fatigue performance evaluation with NDT system
- Advanced NDT system
- Embedded NDT system

Guest Editors

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Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

Editor-in-Chief

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