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Non-destructive Testing Methods in Surfaces Analysis of Reinforced Concrete Structures

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closed (28 February 2023)

Message from the Guest Editors

Dear Colleagues,

For many years, structural health monitoring (SHM) has been a very important aspect of scientific works and different engineering applications, including in the construction industry.

Although SHM issues and the related nondestructive testing (NDT) methods were initially mainly concerned with aerospace applications and metal or composite materials, concrete structures have also recently been monitored.

There are effective methods for detecting surface damage to concrete elements. NDT techniques are also available to detect damage resulting from the chemical degradation of concrete and corrosion of reinforcements. A separate group of applications for NDT-SHM methods are represented by reinforced concrete structures with composite bars, which are gaining increased popularity.

The aim of this Special Issue is to bring together researchers studying and developing NDT-SHM methods focused on applications in reinforced concrete, both at the material and at the structure scale.

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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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