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Magnetic Induction for Non-destructive Measurement in Civil Engineering

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Non-destructive testing (NDT) techniques improve quality control during the construction and preventive maintenance of civil infrastructures. Some NDT techniques are mature, others have the potential to grow, and others are yet to be discovered. Any small investment in improving NDT techniques contributes to the improvement of the safety of civil infrastructures and, therefore, potentially saves human lives. When infrastructures contain some type of ferromagnetic material (e.g., armor), magnetic induction non-destructive measurement is one of the best techniques in quality surveillance and control.

We cordially invite you to contribute to this Special Issue on "Magnetic Induction Non-Destructive Measurement in Civil Engineering" with original research papers which contain recent advances as well as review articles. The topics include, but are not limited to, locating reinforcement and its health by inductance, quantifying the amount and isotropy of steel-fiber reinforcement, measuring the moisture content of concrete by nuclear magnetic resonance (NMR), and locating defects and corrosion in reinforcement by measuring magnetic flux leakage.