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Smart Non-destructive Testing and Inspection of Engineering Materials

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Deadline for manuscript submissions:

closed (10 September 2023)

Message from the Guest Editors

Dear Colleagues,

Non-destructive testing (NDT) methods are presented to evaluate material properties and components as well as the structural integrity of engineering materials. NDT encompasses inspection techniques that are utilized to detect, characterize, and measure the presence of mechanical damages and identify their mechanisms. NDT aims to increase the reliability of engineering components affordably without damaging the inspected parts. New inspection methods apply artificial intelligence using various sensors' data to evaluate defects and provide a rapid damage assessment.

This Special Issue will compile recent developments in the field of smart NDT and inspection methods. The articles presented in this Special Issue will cover various topics, ranging from, but not limited to, the optimization of NDT and inspection methods, characterization of engineering materials using smart NDT methods, the functionalization of smart inspection methods, 3D geometrical inspection of materials, smart metallurgical inspection methods, among others. Topics are open to engineering materials and characterization for the development of applications.



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Special Issue



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Message from the Editor-in-Chief

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