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Intelligent Damage Assessment for Engineering Materials and Structures

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Message from the Guest Editors

Dear Colleagues,

New damage detection techniques and schemes are of interest, while methods that make full use of the available information from different sensors are worth exploring. Introducing mechanics and semi-empirical theory into existing data-driven models to address issues such as insufficient data and data imbalance is a scientific and effective approach. In addition, the real-time assessment of damage state and determining how to make quick decisions based on these assessment results are also particularly important. Recently, with the development of artificial intelligence technology, deep learning methods have been successfully applied in speech recognition, computer vision and other fields. Due to their advantages of automatically extracting features and their highly integrated convenience in mobile devices, deep learning methods have become a powerful tool for intelligent damage assessment technology. This Special Issue is dedicated to opening a scientific discussion on recent developments in this new research area with the aim of providing the updated state of the art and discussing advantages, drawbacks, and challenges in detail.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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