Special Issue

Advances in Structural Dynamic Reliability Theory and Application

Message from the Guest Editors

Structural dynamic reliability focuses on the problem of structural reliability under stochastic dynamic excitation. In engineering, dynamic loads exist widely. Thus, structural dynamic reliability analysis plays an irreplaceable role in structural uncertainty analysis. In general, dynamic reliability analysis uses the theoretical tool of stochastic processes. The advances in probability analysis of stochastic process promote the development of dynamic reliability analysis. In recent years, great progress has been made regarding the above dynamic reliability analysis methods, and a lot of research work has been done in their applications in engineering. From a broader perspective, most engineering phenomena or problems are dynamic. Thus, generalized dynamic reliability analysis should contain all the engineering problems related to time-dependent process, such as the structural safety assessment considering structural performance deterioration process. This Special Issue aims to gather contributions presenting the most recent advances on structural dynamic reliability theory and its engineering applications.

Guest Editors

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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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