

Special Issue

Reliability and Risk Analysis of Structures and Applications to Design and Optimization

Message from the Guest Editors

This Special Issue focuses on recent advancements in structural reliability and risk analysis and their applications in design and optimization. Increasing computational power and efficiency have facilitated the development of diverse methods and simulation techniques for the reliability and risk analysis of complex and complicated systems. This issue is devoted to the latest theoretical and numerical developments in reliability assessment and risk analysis of structures and structural systems.

The scope and topics include, but are not limited to: structural system reliability; methods of reliability and risk assessment of a structure or structural system; reliability modeling and prediction; time-invariant and time-variant reliability and risk analysis; random vibration; machine learning, sensitivity analysis; algorithmic developments in reliability/robust based design optimization; novel applications of structural reliability methods and risk analysis in diverse areas such as structural mechanics, construction material, and design; data-driven uncertainty quantification and risk analysis.

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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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