Special Issue

Uncertainty Propagation of Complex Engineering Structures/Systems

Message from the Guest Editors

Since the complexity of nonlinear models of engineering structures/systems continues to grow, the uncertainty propagation of complex engineering structures/systems is of critical importance to ensure global safety, which remains one of the major challenges in structural and mechanical engineering. The nonlinear behaviors of the considered structures/systems further increase the relevant difficulties in this area. Therefore, it is necessary to employ advanced methodologies and tools, which lead to efficient solutions for investigating the behavior of complex engineering structures with consideration of uncertainties.

This Special Issue aims to deliver and discuss recent advances and emerging cross-disciplinary approaches related to uncertainty propagation of complex engineering structures/systems. Specific contributions related to both fundamental research and engineering applications are welcome. For scholars interested to submit papers to the Special Issue, please click "Submit to Special Issue" or contact Astoria Yao: astoria.yao@mdpi.com.

Guest Editors

Prof. Dr. Jun Xu

Prof. Dr. Fan Kong

Dr. Ding Wang

Deadline for manuscript submissions

closed (31 January 2023)



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About the Journal

Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

Editor-in-Chief

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