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Progressive Collapse of Structures

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Message from the Guest Editors

The progressive collapse of structures has attracted significant attention since the 9/11 terrorist attack in the US in 2001. This Special Issue, entitled "Progressive Collapse of Structures", aims to highlight current research innovations, developments, and future perspectives on progressive collapse. The research topics include but are not limited to case analyses of collapse; structural collapse risk assessment; robustness of building structures; collapse-resistant mechanisms; progressive collapse testing; progressive collapse analyses; progressive collapse design guidelines; improvement of collapse performance; and buildings subjected to impact, explosion, and fire. We look forward to receiving a great variety of the latest research results and new ideas for further development of progressive collapse, ranging from collapse risk assessment, mechanism, and numerical analysis to performance improvement. This Special Issue will cover every aspect of the industry, and we warmly welcome you to share your views and findings with us.

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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.

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