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Advances in Fracture Mechanics and Fatigue of Engineering Materials and Structures

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Message from the Guest Editors

Dear Colleagues,

Most failures of engineering structures can be ascribed to fracture and fatigue phenomena. Therefore, a deep knowledge of fatigue and fracture behaviour of materials and structural elements is crucial to improve their durability and safety.

The development of new materials, such as composite and additively manufactured materials, has prompted many researchers to investigate new approaches for residual life prediction under constant and variable amplitude loading conditions. Moreover, the widespread use of joining techniques requires specific methodologies for simulating fracture response in order to satisfy safety requirements.

The focus of the present Special Issue of Materials is on the computational modelling and simulation of fatigue and fracture of engineering components and assemblies and on the investigation of their experimental behaviour. This Special Issue will offer an opportunity for the presentation of recent advances in this field.





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Message from the Editor-in-Chief

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