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Advances in Numerical Modelling of Fatigue and Fracture in Metals

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Deadline for manuscript submissions:

closed (31 January 2024)

Message from the Guest Editors

Dear Colleagues,

The development of advanced numerical methods with which to deal with fatigue and fracture phenomena, in the context of structural integrity of critical components, constitutes a challenging but promising area of clinical progress. Modern tools, developed through the use of the finite element method, extended finite element method, and meshless methods, among others, have demonstrated themselves to be viable alternatives to classical design concepts.

This Special Issue is focused on numerical methods and computational approaches to address fatigue and fracture problems. Researchers are encourages to submit examples of innovative and successful industrial applications, as well as nonconventional numerical approaches. Research and review papers are also welcome.

Dr. Ricardo Branco Prof. Dr. Filippo Berto *Guest Editors*











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Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure - disciplines in metallurgical field the ranging from processing. mechanical behavior. phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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