



Advances in Service Life Evaluation of Metallic and Composite Materials

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Deadline for manuscript
submissions:
closed (20 January 2024)

Message from the Guest Editors

Dear Colleagues,

The purpose of this Special Issue is to gather updated information about the advances in service life evaluation and retrofitting of structural joints as key parts of making structures with the reliability and durability desired. The loading scenarios include high-cycle fatigue, low-cycle fatigue, and post-fatigue. Contributions are welcomed regarding our primary interest in the following topics: recent developments about the experimental techniques applied to the estimation of fatigue crack growth rate and deterioration progress; current state of knowledge relating to the geometric effects (notches, fillets, etc.); environmental and physical factors in the progressive lifetime deterioration of structural joints based on theoretical and numerical approaches; and finally, methodology in the suppression of fatigue crack growth and optimization of fatigue resistant structures. However, studies related to any other engineering materials and structures employed in fatigue approaches, fracture mechanics, and experimental techniques are also highly suitable regarding the aims and scope of this Special Issue.





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Message from the Editor-in-Chief

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