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Special Issue on "Fatigue life and integrity of ships and offshore structures"

Editor: Prof. Carlos Guedes Soares

Fatigue life of floating structures is an essential step in their design process, and thus it is included

as one of the checks in the Rules of Classification Societies. Different methods have been developed for that purpose, and new approaches are continuously being proposed, as simplified methods dully calibrated and validated are always welcome as substitutes of very heavy computational approaches. Integrity of these structures has to be ensured during their lifetime by checking their strength in light of existing cracks, eventually coexisting with other types of structural degradation.

This special issue aims to collect in a single location the contributions that will allow an overview of the present state of the art in this subject area.

Topics of interest include (but not limited to)

- Fatigue testing
- Low cycle fatigue
- Fatigue under variable amplitude loading
- Fatigue load modelling
- Fatigue life assessment
- Fracture mechanics
- Effect of defects in fatigue life
- Fatigue strength improvement
- Non-destructive testing
- Inspection planning and health monitoring
- Probabilistic and uncertainty approaches
- Fatigue reliability
- Structural integrity

Schedule

It is aimed to have the articles submitted by January 2022 so as to have the special issue published in late 2022.

Submission Guidelines

Submitted articles must not have been previously published or currently submitted for journal publication elsewhere. Paper submissions must conform to the layout and format guidelines of the journal. Submissions must be sent via the journal submission website

https://mc03.manuscriptcentral.com/jmsa

However, before submission it is advisable to contact the Editor to ensure that the paper will be processed as part of the special issue.

Editor

Prof. Carlos Guedes Soares, Centre for Marine Technology and Ocean Engineering (CENTEC), Instituto Superior Técnico, Universidade de Lisboa, Portugal; <u>c.guedes.soares@tecnico.ulisboa.pt</u>