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Special Issue on “Wave loads and motions of ships and offshore structures”

Editor: Prof. Carlos Guedes Soares



The assessment of the loads induced by waves on floating structures is a central problem of hydrodynamics and is a starting point for structural design. Many different methods have been used with different levels of accuracy and computational power. Ships are typically slender geometries with forward speed while offshore platforms then to have more complex geometry but zero speed. This has led to different methods being more popular to one or other type of floaters. Developments have been made to deal with large amplitude motions and large speeds of advance, which bring increased complexity to the problem. Furthermore the interaction between vessels has become important in different maritime operation so methods that are able to account for the interaction effects are also important.

This special issue aims to collect in a single location 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)

- Wave loads on zero speed floaters
- Effect of forward speed on wave loads
- Froude–Krylov Nonlinear Methods
- Body-nonlinear Methods
- Fully non-linear Methods
- Wave loads with field methods
- Loads from abnormal waves
- Wave loads on damaged structures
- Wave loads on multi-bodies
- Wave loads during offshore operations
- Combination of wave and sloshing, slamming and springing loads
- Fatigue loads
- Short term and long term models of wave loads
- Uncertainty in wave load predictions

Schedule

It is aimed to have the articles submitted before the end of 2017 so as to have the special issue published in the first half of 2018.

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

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