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Failure Analysis of Marine Structure

Guest Editors:

Prof. Dr. Kazem Reza Kashyzadeh
1. Department of Transport, Academy of Engineering, Peoples' Friendship University of Russia (RUDN University), Moscow, Russia
2. Director of Mechanical Characteristics Lab., Center for Laboratory Services, Sharif University of Technology, Tehran, Iran

Dr. Mahmoud Chizari
1. School of Engineering and Technology, University of Hertfordshire, Hatfield, UK
2. School of Mechanical Engineering, Sharif University of Technology, Tehran, Iran

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Message from the Guest Editors

Dear Colleagues,

Marine structures have three categories: fixed, mobile, and floating offshore platforms. However, they can be divided into different groups based on their application, material, and supporting system. These structures are generally impractical when it comes to design, considering all types of loads. Moreover, predicting the response of the marine structures due to wind direction, size of the wind, etc. is complex. Therefore, the specialist employs some random variables to design the marine structures for describing the loads, dimensions, structural properties, etc. Other than that, the marine structures are additionally subjected to berthing loads and operational loads. Failures of marine structures and their accessories can lead to serious consequences. The engineering practice recognizes typically one or few reasons for the failure of such structures: excessive force and/or temperature-induced elastic deformation, yielding, fatigue, corrosion, creep, etc. As a result, it is essential to identify potential threats in the first step that can affect the integrity of marine structures.

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Editor-in-Chief

Prof. Dr. Tony Clare
School of Natural and Environmental Sciences, Newcastle University, Newcastle upon Tyne NE1 7RU, UK

Message from the Editor-in-Chief

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Journal of Marine Science and Engineering Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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