

Special Issue

Welded and Adhesive Joints for Marine Applications

Message from the Guest Editors

Welding represents the main junction technique for marine structure applications, ranging from ship to offshore welded structures. Challenges such as protection from corrosion, self-weight reduction, and higher static and fatigue strengths are more often required such as offshore, oil and gas structures, introducing the need to use different metals. Several problems can arise with traditional welding processes in terms of overall strength, thus, Adhesives are often used for their connection. Currently, particular attention is being paid to dissimilar welding, which may produce improvements such as self-weight reduction, protection from corrosion, and higher static and fatigue strengths. Topics addressed in this Special Issue may include, but are not limited to:

- Innovative methods for fatigue prediction of welded and adhesive joints;
- Experimental techniques for fatigue analysis;
- Fatigue design of ship and offshore welded structures;
- Large-scale tests on marine and offshore structural details;
- Analysis of fatigue failure in welded and adhesive joints;
- Corrosion tests on marine and offshore welded joints.

Guest Editors

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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 the metallurgical field 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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