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## Editorial preface

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### Dear Readers,

It is my great pleasure to present to our readers the most recent issue 61 (133) of the Scientific Journals of the Maritime University in Szczecin. This time, the Scientific Journals contains the results of nineteen research endeavors that are categorized into seven thematic groups: Automation, Electronic and Electrical Engineering, Civil Engineering and Transport, Environmental Engineering, Mining and Energy, Information and Communication Technology, Management and Quality Studies, Mechanical Engineering, and Miscellaneous.

The first section – Automation, Electronic and Electrical Engineering – contains three papers. The authors of the first paper discuss issues with compensating harmonic currents, reactive power, and imbalances in the bypass load power of a closed-loop control of a shunt active power filter. The next paper describes a method for steering the mechatronics of a shaft generator by applying permanent magnet synchronous generators (PMSG), allowing for work stability while changing the rotational speed of the shaft. In the third paper, the authors present their research on the durability of selected LED lamps.

The second section – Civil Engineering and Transport – includes five papers. The first describes the application of a parametric method in railway transport, especially for track infrastructure inventory. The authors of the second paper share their interesting results regarding simulations of accident results and navigational risks in fairways stemming from a ship's technical malfunctions. The problems discussed in the third paper involve determining the position of inland vessels in the immediate vicinity of the Długi and the Kolejowy Bridges in Szczecin. As for the fourth paper, the author analyses issues associated with the safe management of a ship's exploitation, especially as it relates to maritime safety culture. The last article in this section examines social expectations regarding public transport using the example of Szczecin.

The third section – Environmental Engineering, Mining, and Energy – contains one paper that reports simulated oil spills and their spread under various atmospheric conditions.

The fourth section – Information and Communication Technology – also includes one article, which presents a software pack for monitoring various possible events that threaten a ship and its crew.

The fifth section – Management and Quality Studies – contains three papers. The first is devoted to human resource management in a company with regard to its development. The subject matter of the next two papers is related to the social responsibility of managing maritime ports and the environmental and societal effects of such management.

The penultimate section – Mechanical Engineering – contains three articles. The authors of the first paper discuss torsional, longitudinal, and lateral vibrations of a propeller shaft. The next paper presents changes in the microstructure of elements made of unalloyed cast steel with 0.3% carbon content regenerated using welding technology. The third paper presents a method for gassing-up ethylene without uncontrolled losses and disruptions in a transshipment installation.

The last section – Miscellaneous – contains three articles. The author of the first one describes a model of safe infrastructure for an oil terminal with regards to its exploitation process. The next paper discusses the effects of LED lighting on human health, especially the eyes. The last paper contains a comparative bibliometric analysis of sources of maritime transport based on the Web of Science database.

I invite all readers to visit our website: <http://scientific-journals.eu/>. It provides all essential information on the publication process, along with full papers included in the current 61 (133) issue and archival papers published in the Scientific Journals of MUS.

A handwritten signature in blue ink that reads "Jasionowski RW".

Robert Jasionowski, PhD  
Editor-In-Chief  
Szczecin, 25.03.2020