

2020, 62 (134), 5–6  
ISSN 1733-8670 (Printed)  
ISSN 2392-0378 (Online)  
DOI: 10.17402/413

## Editorial preface

**Robert Jasionowski**

Maritime University of Szczecin  
2–4 Willowa St., 71-650 Szczecin, Poland  
e-mail: r.jasionowski@am.szczecin.pl

### Dear Readers,

I am pleased to present to you No. 62(134) of the Scientific Journals of the Maritime University of Szczecin. This issue presents the results of nineteen research papers in six thematic groups: Civil Engineering and Transport, Environmental Engineering, Mining and Energy, Information and Communication Technology, Management and Quality Science, Mechanical Engineering, and Miscellaneous.

The first thematic group – Civil Engineering and Transport – contains five papers. In the first, the authors analyse the causes of 162 accidents of marine vessels in the Strait of Çanakkale. The second paper provides a SWOT analysis of the various vessels used in offshore crude oil and gas extraction. The next paper in this section addresses methods for locating and tracking rolling stock using global navigation satellite systems (GNSS) using Polish State Railways (PKP) as an example. The fourth article presents a model for improving the energy efficiency of road transport based on the sustainable development of the national economy. The last publication presents a detailed experimental analysis of loading gas into cargo tanks on ethylene carriers.

The second group – Environmental Engineering, Mining and Energy – contains one article. The author presents safe and environmentally friendly techniques for the recovery of derelict fishing gear (DFG).

The next group – Information and Communication Technology – also contains one article. In this publication, the authors present a MATLAB algorithm to identify energy-efficient solutions for managing movable facilities on waterways.

There are two articles in the fourth group Management and Quality Science. The authors of the first paper present the statistical distributions of operational surveys performed by different marine vessels in a port. The second paper investigates the profitability of operating three types of vehicles: rented, new, and used.

Seven articles are included in the fifth thematic group, Mechanical Engineering. The papers include various studies primarily related to numerical methods, in particular, the finite element method (FEM) and the finite volume method (FVM). This group also includes a publication on safety management issues, with a focus on the impact of safety culture standards on reducing accidents in a ship engine room.

In the last group – Miscellaneous – there are three articles with very different subjects. The first paper describes how to optimize and ensure the reliable operation of a port oil terminal to maximize the lifetime of its critical infrastructure. Another paper addresses the planning and control of rescuing a person overboard based on the SAR Navi-Harbor module for the Baltic Sea. The last article reports the impact of regional development funds (RDFs) on the regional growth of small and medium-sized enterprises and the impact of intellectual property on the economic development of the studied country.

I take this opportunity to encourage authors from around the world to publish their findings in the Scientific Journals of the Maritime University of Szczecin. All readers are invited to visit our website: <http://scientific-journals.eu/> which provides readers with access to electronic versions of current and older issues.

Handwritten signature in blue ink, reading "JASIONOWSKI RW".

Robert Jasionowski, PhD  
Editor-In-Chief  
Szczecin, 29.06.2020