Detailed instructions for authors and contacts to editors can be found on journal’s webpage: www.archivesoftransport.com

The Archive of Transport is indexed by the Polish Ministry of Science and Higher Education.

All articles are peer-reviewed by two external reviewers. Reviewers list is published once each year in the last issue of the journal and also on journal’s webpage.

Copyright © 2018 by Warsaw University of Technology.

All rights reserved. No part of this publication may be modified, reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without permission in writing from publisher.

Printed by:

Circulation 100 copies.
ARCHIVES OF TRANSPORT

Editor-in-Chief
Marianna Jacyna,
Warsaw University of Technology, Poland;

Editorial Committee
Andrzej Chojnacki,
Military University of Technology,
Poland;
Agnieszka Merkisz-Guranowska,
Poznan University of Technology,
Poland;

Andrzej Szarata,
Cracow University of Technology,
Poland;
Adam Weintrit,
Gdynia Maritime University,
Poland;

Editorial Advisory Board
Chairman
Marian Tracz,
Cracow University of Technology, Poland;

Deputy Chairman
Jerzy Kisilowski,
University of Technology and Humanities, Poland;

Members
Salvatore Cafiso,
University of Catania, Italy;
Jan Celko,
University of Zilina, Slovakia;
Csaba Koren,
Széchenyi István University of Applied Sciences,
Hungary;
Bogusław Liberadzki,
Warsaw School of Economics, Poland;

Raffaele Mauro,
University of Trento, Italy;
Laurence R. Rilett,
University of Nebraska, USA;
Efim N. Rozenberg,
Moscow Institute of Railway Engineering (MIIT),
Russia;
Kumares Sinha,
Purdue University, USA;

Statistical Editor:
Tomasz Ambroziak,
Warsaw University of Technology, Poland;
Jolanta Żak,
Warsaw University of Technology, Poland;

Editorial Secretary:
Konrad Lewczuk,
Warsaw University of Technology, Poland;
Emilian Szczepański,
Warsaw University of Technology, Poland;

Linguistic Editor
Joseph Woodburn,
University of Bristol, United Kingdom;
Associate Editors (Subject Editors)

Transport Engineering
Andrzej Chudzikiewicz, Warsaw University of Technology, Poland;
Radim Lenort, VŠB-Technical University of Ostrava, Czech Republic;

Air Transport
Jerzy Manerowski, Warsaw University of Technology, Poland;
Jozsef Rohacs, Budapest University of Technology and Economics, Hungary;

Transport Infrastructure and Management
Gebhard Hafer, University of Applied Sciences in Berlin, Germany;
Edward Michlowicz, AGH University of Science and Technology, Poland;

Maritime Transport
Zbigniew Burciu, Gdynia Maritime University, Poland;
LU Huaqing, Zhejiang Ocean University, China;

Optimization and Algorithmic in Transport
Tadeusz Nowicki, Military University of Technology, Poland;
Askoldas Podviezko, Vilnius Gediminas Technical University, Lithuanian;

Ecology of Transport
Jerzy Merkisz, Poznan University of Technology, Poland;
Vitalii Naumov, Kharkov National Automobile and Highway University, Ukraine;

Logistics Engineering
Goran Dukic, University of Zagreb, Croatia;
Tomasz Nowakowski, Wroclaw University of Technology, Poland;

Telematics in Transport
Vladimir Hahanov, Kharkov National University of Radioelectronics, Ukraine;
Miroslaw Siergiejczyk, Warsaw University of Technology, Poland;

Railway Transport
Iurii Domin, Volodymyr Dahl East Ukrainian National University, Ukraine;
Andrzej Lewinski, University of Technology and Humanities, Poland;

Transport Safety
Geza Tarnai, Budapest University of Technology and Economics Hungary;
George P. Sakellaropoulos, Aristotle University of Thessaloniki, Greece;

Road Transport
Dusan Malindzak, Technical University of Kosice, Slovakia;
Juan Carlos Villa, Texas A&M Transportation Institute, USA;

Mobility in Transport
Wlodzimierz Choromański, Warsaw University of Technology, Poland;
Burford J. Furman, San Jose State University, USA;

Editorial Committee Contact:
ARCHIVES OF TRANSPORT
Faculty of Transport, Warsaw University of Technology
Koszykowa 75, 00-662 Warsaw
Poland
E-mail: archivessecretary@wt.pw.edu.pl
Phone: +48 22 234-58-55
Contents

Ivetta Afanasieva, Andrii Galkin
Assessing the information flows and established their effects on the results of driver’s activity ................................................................. 7

Teresa Gajewska, Dominik Zimon
Study of the logistics factors that influence the development of e-commerce services in the customer’s opinion ................................................................. 25

Pengfei He, Jing Li
Vehicle routing problem with partly simultaneous pickup and delivery for the cluster of small and medium enterprises ................................................................. 35

Ilona Jacyna-Gołda, Mariusz Izdebski, Emilian Szczepański, Paweł Gołda
The assessment of supply chain effectiveness ................................................................................................................................. 43

Piotr Jaworski, Kamil Liberadzki, Marcin Liberadzki
Principles of the toll roads pricing ........................................................................................................................................ 53

Dmitrii Kozachenko, Roman Vernigora, Valeriy Kuznetsov, Nataliia Lohvinova, Rustam Rustamov, Aleksandr Papahov
Resource-saving technologies of railway transportation of grain freights for export ................................................................. 63

Radosław Milewski, Tomasz Smal
Decision making scenarios in military transport processes ........................................................................................................ 75

Tomasz Staśkiewicz, Bartosz Firlik
Out-of-round tram wheels – current state and measurements ........................................................................................................ 93