

**EDITORIAL BOARD:**

Prof. Igor Kabashkin (Editor-in-Chief), *Transport & Telecommunication Institute, Latvia*  
Prof. Irina Yatskiv (Deputy/ Managing Editor), *Transport & Telecommunication Institute, Latvia*  
Dr. Brent D. Bowen, *Embry-Riddle Aeronautical University, USA*  
Prof. Ernst Frankel, *Massachusetts Institute of Technology, USA*  
Prof. Arnold Kiv, *Ben-Gurion University of the Negev, Israel*  
Prof. Aleksandr A. Kondratiev, *North-West State Technical University, Russia*  
Prof. Andrzej Niewczas, *Lublin University of Technology, Poland*  
Prof. Lauri Ojala, *Turku School of Economics, Finland*  
Prof. Juri Tolujew, *Transport & Telecommunication Institute, Latvia*  
Prof. Wolfgang Kersten, *Hamburg University of Technology, Germany*  
Prof. Ramūnas Palšaitis, *Vilnius Gediminas Technical University, Lithuania*  
Prof. Cristina Pronello, *Polytechnic Torino, Italy*  
Dr. Vadim Donchenko, *Scientific and Research Institute of Motor Transport, Russia*  
Dr. Andrius Jarzemskis, *Vilnius Gediminas Technical University, Lithuania*  
Prof. Olegas Prentkovskis, *Vilnius Gediminas Technical University, Lithuania*  
Prof. Roberto San José García, *Technical University of Madrid, Spain*  
Dr. Mario Collotta, *Kore University of Enna, Italy*

**Host Organizations:**

Transport and Telecommunication Institute, Latvia – Dr. phil. Igors Graurs, Rector

**Supporting Organizations:**

Latvian Transport Development and Education Association  
Latvian Academy of Sciences  
Latvian Operations Research Society  
Telecommunication Association of Latvia  
Latvian Academic Park

**Pre Press Manager**

Mihails Savrasovs, Transport & Telecommunication Institute, Latvia

**Technical Editors**

Irina Mihnevica, Transport & Telecommunication Institute, Latvia

All articles are reviewed.

Articles can be presented in the journal in English.

The authors themselves are responsible for context and grammar of their abstracts and reports.

**EDITORIAL CORRESPONDENCE**

Transporta un sakaru institūts (Transport and Telecommunication Institute)  
Lomonosova iela 1, LV-1019, Riga, Latvia.  
Phone: (+371) 67100594. Fax: (+371) 67100535  
E-mail: [transport.journal@tsi.lv](mailto:transport.journal@tsi.lv), <http://www.tsi.lv>

**TRANSPORT and TELECOMMUNICATION**, 2014, vol. 15, no. 4

ISSN 1407-6160

The journal of Transport and Telecommunication Institute (Riga, Latvia).

The journal is being published since 2000.

**Abstracting & Indexing:**

Celdes, CNKI Scholar (China National Knowledge Infrastructure), CNPIEC, DOAJ, EBSCO  
Discovery Service, Elsevier – SCOPUS, Google Scholar, Inspec, J-Gate, Journal TOCs, Naviga  
(Softweco), Primo Central (ExLibris), ProQuest – Advanced Technologies Database with Aerospace,  
ProQuest – Engineering Journals, ProQuest – Illustrata: Technology, ProQuest – SciTech Journals,  
ProQuest – Technology Journals, Referativnyi Zhurnal (VINITI), SCImago (SJR), Summon (Serials  
Solutions/ProQuest), TDOne (TDNet), TEMA Technik und Management, Transportation Research  
Board, Ulrich's Periodicals Directory/ulrichsweb, De Gruyter Open, WorldCat (OCLC), Cabell's Directory