



Number 4, Volume XII, December 2017, 50 pages.

Editors address:

University of Pardubice, Jan Perner Transport Faculty
Department of Transport Technology and Control
Studentská 95, 532 10 Pardubice
Tel.: +420 466 036 199, <http://pernerscontacts.upce.cz/>

General editor:

doc. Ing. Jaromír Šíroký, Ph.D. – University of Pardubice, Jan Perner Transport Faculty

Editors:

Ing. Petr Nachtigall, Ph.D., Ing. Pavlína Hlavsová – University of Pardubice, Jan Perner Transport Faculty

Editorial board:

doc. Borna Abramović, Ph.D. – Faculty of Transport and Traffic Sciences, University of Zagreb
prof. Dr. Gerhard Bahrenberg – University of Bremen, Fachbereich Sozialwissenschaften
Dr. Zoltán Bokor, PhD. - Budapest University of Technology and Economics
prof. Ing. Václav Cempírek, Ph.D. – University of Pardubice, Jan Perner Transport faculty
doc. dr. Zoran Čekerevac – UNION University Beograd, Faculty of Industrial Management
prof. Dr. Jürgen Deiters – University of Osnabrück, Fachgebiet Geographie
doc. Ing. Ivo Drahotský, Ph.D. – University of Pardubice, Jan Perner Transport faculty
Dipl.-Ing. Steffen Dutsch – TU Dresden, Faculty of Transportation and Traffic Sciences “Friedrich List“
Sven Erichson - Chamber of Commerce and Industry, Magdeburg
Gábor Heves - The Regional Environmental Center, Szentendre
doc. Ing. Rudolf Kampf, Ph.D. – The Institute of Technology and Businesses in České Budějovice
doc. Ing. Martin Kendra, PhD. – University of Žilina, Faculty of Operation and Economics of Transport and Communications
doc. Ing. Jaroslav Kleprlík, Ph.D. – University of Pardubice, Jan Perner Transport Faculty,
Ing. Martina Vitteková, Ph.D. – Czech Technical University in Prague, Faculty of Transportation Science
doc. Ing. Radovan Madleňák, PhD. – University of Žilina, Faculty of Operation and Economics of Transport and Communications
prof. Ing. Jozef Majerčák, PhD. – University of Žilina, Faculty of Operation and Economics of Transport and Communications
prof. dr hab. Elżbieta Marciszewska – Warsaw School of Economics, Department of Transport
Wolfgang Mihlan - Chamber of Commerce and Industry, Magdeburg
Ing. Jana Míková, Ph.D. – VŠB–Technical University of Ostrava, Faculty of Mechanical Engineering
Dr. Jesús Gabriel Moreno Navarro – Universidad de Sevilla
doc. Ing. Eva Nedeliaková, PhD. – University of Žilina, Faculty of Operation and Economics of Transport and Communications
doc. Ing. Antonín Peltrám, CSc. – Institute for European Integration Prague
prof. Ing. Miloslav Seidl, PhD. - University of Žilina, Faculty of Special Engineering
Dipl.-Ing. Dr. techn. Andreas Schöbel, Institute of Transportation, Technical University Vienna
Dipl.-Ing. Stephan Schröder - Bahnzentrum Ingenieurbüro, Bielefeld
doc. Ing. Pavel Šaradín, CSc. – College of Logistics Přerov
doc. Ing. Libor Švadlenka, Ph.D. – University of Pardubice, Jan Perner Transport Faculty
dr hab. inž. prof. Zenon Zamiar - Military Academy of Land Forces, Faculty of Engineering, Wrocław

CONTENTS:

USER PREFERENCES OF USAGE OF IOT (I4.0) FUNCTIONALITIES ON WMS MARKET, FUTURE TRENDS	
Daniel Cisar	5
AIR TRANSPORT DEMAND AND ECONOMIC AKTIVITY IN THE CZECH REPUBLIC	
Lenka Heřmánková, Kateřina Pojkarová.....	14
DETECTING ANOMALOUS SENSOR DATA IN WAYSIDE DIAGNOSTICS USING ENHANCED LBP-KURTOGRAMS	
Onur Kilinc, Jakub Vágner.....	23
ADVISEMENT OF COORDINATION OF RAILWAY PASSENGER TRANSPORT AND BUS TRANSPORT IN THE SELECTED TRACK SECTION	
Zdenka Záhumenská, Milan Dedík, Jozef Gašparík, Peter Blaho	31
AIRPORT SECURITY DETECTION CHECK – WHAT ARE THE REAL LIMITS?	
Jan Zýka, Tomáš Děkan.....	40

PERNER'S CONTACTS

Number 4, Volume XII, December 2017, 50 pages.

List of papers

Advisement of coordination of railway passenger transport and bus transport in the selected track section, 31-39

Air Transport Demand and Economic activity in the Czech Republic, 14-22

Airport Security detection check – what are the real limits?, 40-50

Detecting anomalous sensor data in Wayside diagnostics using enhanced LBP-Kurtograms, 23-30

User references of usage of IoT (i4.0) functionalities on WMS market, future trends, 5-13

PERNER'S CONTACTS

Number 4, Volume XII, December 2017, 50 pages.

List of authors

Cisar, D., 5-13

Heřmánková, L., 14-22

Pojkarová, K., 14-22

Vágner, J., 23-30

Kilinc, O., 23-30

Záhumenská, Z., 31-39

Dedik, M., 31-39

Gašparík, J., 31-39

Blaho, P., 31-39

Zýka, J., 40-50

Děkan, T., 40-50

PERNER'S CONTACTS

Number 4, Volume XII, December 2017, 50 pages.

List of reviewers

prof. Ing. Václav Cempírek, Ph.D., University of Pardubice, Jan Perner Transport Faculty

doc. Ing. Pavel Drdla, Ph.D., University of Pardubice, Jan Perner Transport Faculty

doc. Ing. Jozef Gašparík, PhD., University of Žilina, Faculty of Operation and Economics of Transport and Communications

Ing. Petr Jirsák, Ph.D., University of Economics, Faculty of Business Administration

doc. Ing. Rudolf Kampf, Ph.D., The Institute of Technology and Businesses in České Budějovice

doc. Ing. Jaroslav Kleprlík, Ph.D., University of Pardubice, Jan Perner Transport Faculty

prof. Ing. Vlastimil Melichar, CSc., University of Pardubice, Jan Perner Transport Faculty

Ing. Lumír Pečený, PhD., University of Žilina, Faculty of Operation and Economics of Transport and Communications

Ing. Stephan Schröder, Bahnzentrum Ingenieurbüro Bielefeld

doc. Ing. Jaromír Šíroký, Ph.D., University of Pardubice, Jan Perner Transport Faculty

prof. Ing. Zdeněk Žihla, CSc., University College of Business in Prague