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# RaTSiF-2022

The 41<sup>st</sup> Research and Technology – Step into the Future Conference

## Agenda

**Date:** 22<sup>nd</sup> April 2022

**Time:** 10:00 – 17:00

**Location:** Transport and Telecommunication Institute

**Link to plenary session:** <https://meetings.tsi.lv/b/vik-gnm-0zq-7xf>

OPEN WORKSHOP		
<b>Moderators:</b>	<b>Prof., Dr. sc. ing. Aleksandr Grakovski</b> <b>Prof., Dr. oec. Inna Stecenko</b>	
10:00 - 12:00	Welcome Speech	<b>Prof. Dr. sc. ing. Mihails Savrasovs</b> , Vice-Rector for Academic & Research of Transport and Telecommunication Institute (TSI) (Latvia)
	Introduction Into Modern and Service-Oriented Air Traffic Control Environment and Organization	<b>Dr. sc. eng. Jörg Kundler</b> , Head of IT Services & Infrastructure, DFS Deutsche Flugsicherung GmbH, (Germany)
	The Impact of Geopolitical Changes After February 24, 2022. Selected Aspects of the Logistics Services of International Exchange of Goods	<b>Dr Jakub Doński-Lesiuk</b> , Department of Logistics & Innovations UNIVERSITY OF LODZ (Poland)
	INTELTRANS Project: Study of New Intelligent Technologies for Future Transport Professionals	<b>Prof., Dr. sc. ing., Dr. habil. sc. ing. Igor Kabashkin</b> , Director of the PhD Programme of Transport and Telecommunication Institute (TSI) (Latvia)

## Parallel Session

### SESSION #1

Link to Session 1: <https://meetings.tsi.lv/b/vik-gs7-vpz-aj5>

<b>COMPUTER PROBLEMS OF THE INFORMATION SOCIETY</b> <b>INFORMĀCIJAS SABIEDRĪBAS DATORIZĀCIJAS</b> <b>PROBLĒMAS</b> <b>КОМПЬЮТЕРНЫЕ ПРОБЛЕМЫ ИНФОРМАЦИОННОГО</b> <b>ОБЩЕСТВА</b>		
<b>12:30-17:00</b>		
<b>Moderators:</b>	<b>Prof., Dr. sc. ing. Mihails Savrasovs</b> <b>Prof., Dr. sc. ing. Boriss Misnevs</b>	
12:30 – 15:00	Project eMEDIATOR: Model of Ecosystem for European Education Mobility as a Service	Boriss Misnevs
	Project INGENIOUS: Strengthening digital pedagogy skills and competencies of educators	Kristīne Užule
	A Predictive Model for Detection of Credit Card Fraud Using Machine Learning	Vladislavs Osmuskins
	Research of Machine Learning Methods Implementation for Early Identification of E-learning Students at Risk of Failing	Jibin Manjaly James
	Study of Time Series Anomaly Detection Using Aggregation of Methods Cluster Analysis and Tadgan Model in Cloud Environment	Veronika Grundmane
	Applied Research on Learning Process Improvement Based on AI Solutions	Dmitrijs Mamontovs
<b>15:00 – 15:15</b>	<b>Coffee break</b>	
15:15 – 17:00	Generating Scenarios for the IOT Environment Using AI Algorithms	Darja Mozoleva
	Software Testing in Agile Business Development	Alens Geronjans
	Comparison of Modern Methods of Query Optimization When Working with Relational Databases	Eduards Gruberts
	Critical Aspects in Business Process Automation	Natalja Lazareva
	A Personalized End-to-End Digital Service for Students in University	Tony Philip Joykutty
	Methods for Improving the Landing Page on the Site for Visibility in Search Engines	Nikita Kulevs

## Parallel Session

### SESSION #2

Link to session 2: <https://meetings.tsi.lv/b/vik-zox-9yu-oos>

<b>12:30-17:00</b>	<b>INNOVATIONS AND SMART TECHNOLOGIES IN TRANSPORT AND LOGISTICS</b> <b>INOVĀCIJAS UN VIEDĀS TEHNOLOĢIJAS TRANSPORTĀ UN LOGISTIKĀ</b> <b>ИННОВАЦИИ И УМНЫЕ ТЕХНОЛОГИИ В СФЕРЕ ТРАНСПОРТА И ЛОГИСТИКИ</b>	
<b>Moderators:</b>	<b>Prof., Dr. sc. ing., Dr. habil. sc. ing. Igor Kabashkin</b> <b>Prof. Dr. sc. ing., Dr. rer. nat. habil. Jurijs Tolujevs</b>	
<b>12:30 – 14:30</b>	A Review of 3D Scanner Types for Aircraft Surface Damage Assessment	Irina Bodrova
	Impact of the Arctic Sea Lines of Communication on the International Maritime Cargo Flow	Andžejs Zarakovskis
	Increasing Warehouse Management Efficiency in the Army Tactical Level Unit	Edgars Kapustins
	Warehousing as a Profit Center in Business Unit	Andrejs Koskevičs
	Reduction of Greenhouse Gas Emissions of Replacement of Transport Company's Fuel based Fleet with Electric Powered	Kyryl Yereshchenko
<b>14:30-17:00</b>	<b>MARKET: RESEARCH, PROJECTS, TECHNOLOGIES AND PROBLEMS OF THE MODERN ECONOMY</b> <b>TIRGUS: PĒTĪJUMI, PROJEKTI, TEHNOLOĢIJAS UN MŪSDIENU EKONOMIKAS PROBLĒMAS</b> <b>РЫНОК: ИССЛЕДОВАНИЯ, ПРОЕКТЫ, ТЕХНОЛОГИИ И ПРОБЛЕМЫ СОВРЕМЕННОЙ ЭКОНОМИКИ</b>	
<b>Moderators:</b>	<b>Prof., Dr. sc. admin. Yulia Stukalina</b> <b>Prof., Dr. oec. Irina Kuzmina-Merlino</b>	
<b>14:30-17:00</b>	Impact of Unpredictable Major Events on Aviation Industry: Challenges, Benefits and Prospects for Recovery	Viktorija Gorodnicka
	Future Development of Airport Infrastructure Based on Requirements of the Aviation Industry	Arsenijs Averjanovs
	Impact of Corporate Social Responsibility Practices on Customer and Employee Loyalty in the Aviation Industry	Viktorija Maslova
	Оценка степени удовлетворенности клиентов логистической компании	Ольга Иванова
	Improving the Production Processes of Aircraft Engines Repair Based on the Reengineering Principles	Marietta Belitskaya

# *Special Session*

## SESSION #3

Link to session 3: <https://meetings.tsi.lv/b/vik-yyi-gru-dsc>

16:00-17:00		IDEAHUB INNOVATIONS OF STUDENTS	
Moderators:	Jānis Volberts Vladimirs Petrovs		
16:00 – 17:00	iNNovatic – Innovations Towards Maintaining Manufacturing Details Accuracy Control	Nikita Fatunov	
	Metroble – Half-Automated Robot for Territory Cleaning and Maintenance	Arturs Linde	
	DiPROGer – Low-Cost Drone Platform for Mobile Devices-Based Services Integration	Ivans Gercevs, Viktorija Gerceva	