

Virtual RelStat-2020

“RELIABILITY and STATISTICS in TRANSPORTATION and COMMUNICATION”
(RelStat-2020)

Agenda

Date: 15-16 October 2020

Time: 09:00 – 18:00

Organizer: Transport and Telecommunication Institute

Keynote Speakers



PROF. ANDRES MONZON

Polytechnic University of Madrid, Spain
Key factors influencing MaaS adoption in
EU Metropolitan Areas: comparison between
Randstat-Netherlands and Madrid-Spain



PROF. EFTIHIA NATHANAIL

University of Thessaly, Greece
The influence of information on mobility behavior
and choices



PROF. ANTÓNIO PAIS ANTUNES

University of Coimbra, Portugal
Strategic Airline Planning in Uncertain Times

Date	Time	Virtual room #1	Virtual room #2	Virtual room #3
15.10.2020	10:00 – 12:30	Opening and Plenary Session		
	12:30 – 13:30	Break		
	13:30 – 15:30	Parallel Sessions		
		Session 3 Smart Logistics	Session 1 Data Science	Session 6 Economics & Business
	15:30 – 15:45	Break		
	15:45 – 17:45	Parallel Sessions		
Session 3 Smart Logistics		Session 1 Data Science	Session 6 Economics & Business	
End of day 1				
16.10.2020	10:00 – 12:00	Parallel Sessions		
		Session 4 Smart Technology	Session 2 Aviation	Session 6 Economics & Business
	12:00 – 13:00	Break		
	13:00 – 15:00	Parallel Sessions		
		Session 5 Smart Transport and Mobility	Session 2 Aviation	Session 7 Education and Training in Engineering
	15:00 – 15:15	Break		
	15:15 – 17:00	Parallel Sessions		
		Session 5 Smart Transport and Mobility	Session 2 Aviation	Session 7 Education and Training in Engineering
17:15 – 17:30	Closing remarks end of the Conference			

PLENARY SESSION

PLENARY SESSION		
Moderator:	TTI Chairwoman of the Board, Prof. Irina Yatskiv (Latvia)	
10:00 – 10:30	Opening of the Conference	Prof. Dr. Irina Yatskiv , TTI Chairwoman of the Board
		Tālis Linkaits , Minister of Transport of the Republic of Latvia
		Dr. sc. pol. Juris Kanels , TTI Acting Rector
10:30 - 12:30	Key factors influencing MaaS adoption in EU Metropolitan Areas: comparison between Randstat-Netherlands and Madrid-Spain	Prof. Andres Monzon , Polytechnic University of Madrid (Spain)
	The influence of information on mobility behavior and choices	Prof. Eftihia Nathanail , University of Thessaly (Greece)
	Airline strategic planning in times of uncertainty	Prof. António Pais Antunes , University of Coimbra (Portugal)
12:30 - 13:30	Break	
13:30 – 17:45	Parallel Sessions	

THURSDAY, OCTOBER 15

Time	Virtual room #1	Virtual room #2	Virtual room #3
	Session 3 Smart Logistics Moderators: <i>Prof. Igor Kabashkin</i> <i>As. Prof. Genadij Gromov</i>	Session 1 Data Science Moderators: <i>Prof. Irina Yatskiv</i> <i>As. Prof. Dmitry Pavlyuk</i>	Session 6 Economics & Business Moderators: <i>Prof. Gunnar Prause</i> <i>Prof. Irina Kuzmina -Merlino</i>
13:30 - 15:30	Transfer of Knowledge and Algorithms from Interdisciplinary Fields of Research to the Measurement of Cargo without Process Interruption - <i>Maik Groneberg, Martin Hünermund, Artur Schütz (Germany)</i>	Simulation Experiments on Markov-Modulated Linear Regression Model - <i>Nadezda Spiridovska, Ilya Jackson (Latvia)</i>	Economic Factors of Labour Migration Analysis <i>Svetlana Saksonova, Monika Jansone (Latvia)</i>
	Integrated Architectural Approach to Ensuring Stability of Processes of the Digital Supply Chain - <i>Aleksey Nekrasov, Anna Sinitsyna (Russia)</i>	Development of a Technological Solution for Automated Reintroducing of Mixed Lot Goods in the Trading Process - <i>Nicolas Dolle, Alexej Wergunow, Lutz Gleißmann (Germany)</i>	Assessment of Waste Heat Recovering Systems Installation on Ships – <i>Gunnar Prause, Eunice Omolola Olaniyi (Estonia, Finland)</i>
	Comparison of Spreadsheets and Computing Languages in Simulation of Stochastic Inventory Models - <i>Berdymyrat Ovezmyradov, Genadij Gromov (Latvia)</i>	Using Machine Learning For DOS Attacks Diagnostics - <i>Aleksandr Grakovski, Aleksandr Krivchenkov, Boriss Misnevs (Latvia)</i>	Digitalization of Managing Flexibility in Production Logistic Assignments - <i>Harald Kitzmann (Estonia)</i>
	Automatic Condition Monitoring System from Inspection of Parcel Sorting Conveyor Systems Through Infrastructure Free Sensor Technology in a Compact Mobile Data Logging Unit Suitable for a Variety of Packages - <i>Nils Brauckmann, Martin Hünermund (Germany)</i>	Systematic Literature Review of Question Answering Systems - <i>Matti Mattila, Ajantha Dahanayake (Finland)</i>	Reinforcing innovation and competitiveness of SMEs by new maritime clustering initiatives in the Southern Baltic Sea Region - <i>Christopher Meyer, Robert Philipp, Laima Gerlitz (Germany)</i>
	Selection of an Inventory Management Strategy in a Low-Demand Environment - <i>Lukinskiy Valery, Lukinskiy Vladislav, Bazhina Darya, Nikolaevskiy Nikolay (Russia)</i>	Spatiotemporal forecasting of urban traffic flow volatility – <i>Dmitry Pavlyuk (Latvia)</i>	Modern Managers in Gig Economies: Competencies, Personality and their Effect on Manager Education in the Digital Era - <i>Kristine Uzule, Irina Kuzmina -Merlino (Latvia)</i>
		Fast connected components object segmentation on fused lidar and stereo-camera point clouds with visual-inertial-gimbal for mobile applications utilizing GPU acceleration - <i>Martin Hünermund Maik Groneberg Artur Schütz (Germany)</i>	Do the Researchers Have Any Economic or Financial Substantiation for Smart City: Literature Review - <i>Jelena Popova (Latvia)</i>
15:30 -15:45	Break		

Time	Virtual room #1	Virtual room #2	Virtual room #3
	Session 3 Smart Logistics Moderators: <i>Prof. Igor Kabashkin</i> <i>Prof. Gunnar Prause</i>	Session 1 Data Science Moderators: <i>As. Prof. Mihail Savrasov</i> <i>As. Prof. Dmitry Pavlyuk</i>	Session 6 Economics & Business Moderators: <i>Prof. Inna Stecenko</i> <i>Prof. Tatjana Vasiljeva</i>
15:45 - 17:45	Solving the Last Mile Problem By Creating DSS to Manage Bike-Sharing Infrastructure Development - <i>Irina Makarova, Aleksey Boyko, Anton Pashkevich, Eduard Tsybunov (Russia, Poland)</i>	Neuroevolutionary Approach to Metamodel-based Optimization in Production and Logistics - <i>Ilya Jackson (Latvia)</i>	The Formation Level Evaluation of the New Technological Paradigm in Russia - <i>Natalia Salienko, Victory Klyueva (Russia)</i>
	Assessment of the Logistics Solutions in the Automotive using Operations Research - <i>Martin Jurkovic, Tomas Kalina, Karol Morvay, Vladimir Luptak, Piotr Gorzelanczyk (Slovakia, Czech Republic, Poland)</i>	An Artificial Intelligence Based Sourcing Automation Concept For Smaller and Mid-Sized Enterprises in the Metal Industry - <i>Nicolas Dolle, Christian Wilhelm, Alexej Wergunow, Manfred Rössle, Lutz Gleißmann (Germany)</i>	Micro and Small Businesses Access to Finance and Financial Literacy of their Owners: Evidence from Latvia and Georgia - <i>Svetlana Saksonova, Tatiana Papiashvili (Latvia, Georgia)</i>
	Digital Transformation in Small and Medium – Sized Ports: Cross-Border Capacity Nuilding as Key Driver for Innovation - <i>Laima Gerlitz, Christopher Meyer, Lawrence Henesey, Gunnar Prause (Germany, Sweden, Estonia)</i>	Overview of Spatial Decision Support System and Multiple Criteria Analysis in District Heating Network Maintenance - <i>Ilia Triapitcin, Ajantha Dahanayake, Bernhard Thalheim (Finland, Germany)</i>	The Development of the Baltic Sea Region as a Centre of Global Logistics: The Situation Report and Future Prospects - <i>Nadina Moroza, Justina Hudenko, Inguna Jurgelane-Kaldava (Latvia)</i>
	Service Design for Transnational Smart Supply Chains – <i>Gunnar Prause, Robert Philipp, Vera Gerasimova (Estonia, Germany)</i>		Factors Important for Banks in Attracting and Retaining Customers - <i>Ilmars Kreituss, Tatjana Vasiljeva, Baiba Rokjane (Latvia)</i>
	Machine Vision Using for Detecting Defects in the Flow of Goods - <i>Rodions Saltanovs, Alexander Krainyukov (Latvia)</i>		Comparative Analysis of Terminology and Alternative Financing Types on the Example of Estonia - <i>Oksana Katalikina, Svetlana Saksonova (Latvia)</i>
	Preliminary analysis of changes in logistics processes to assess the impact of a pandemic – <i>Darius Bazaras (Lithuania)</i>		Changes in the business sector under the influence of the pandemic: case of Latvia - <i>Daina Vasilevska, Ilze Sproge (Latvia)</i>
End of day 1			

FRIDAY, OCTOBER 16

Time	Virtual room #1	Virtual room #2	Virtual room #3
	Session 4 Smart Technology Moderators: <i>Prof. Alexander Grakovski</i> <i>Prof. Olegas Prentkovskis</i>	Session 2 Aviation Moderators: <i>Prof. Irina Yatskiv</i> <i>As. Prof. Dmitry Pavlyuk</i>	Session 6 Economics & Business Moderators: <i>Prof. Yulia Stukalina</i> <i>Prof. Ilmars Kreituss</i>
	Ternary Logic in Decision Making - <i>Igor Bessmertny, Nikolai Sukhikh, Jurii Vedernikov and Julia Koroleva (Russia)</i>	Value Creation in Air Transportation: Beyond Price, Quality and Speed - <i>Olga Zervina, Yulia Stukalina, Dmitry Pavlyuk, Neil Rubens (Latvia, Japan)</i>	The Impact of Customer Behavior on Banking Service Management: Evidence From Latvia - <i>Tatjana Vasiljeva; Gatis Kreituss; Ilmars Kreituss (Latvia)</i>
10:00 - 12:00	Efficiency Analysis of Stanley's Controller Applied to the Autonomous Ground Vehicle Movement Control Under Effect of Various Perturbations - <i>Paulius Skačkauskas, Aleksandr Grakovski (Lithuania, Latvia)</i>	Data quality indicators of ETL in the process of implementation of information systems for aircraft maintenance and operation - <i>Maxim Pivovarov, Liubov Rozhkova, Boriss Misnevs, Irina Pticina (Russia, Latvia)</i>	The Development of a Reliable and Valid Scale to Measure Customer Perceived Value in the Craft Sector - <i>Anželika Smagina; Iveta Ludviga (Latvia)</i>
	Steel and Hybrid Bus Safety Frame: The Analysis of Deformation - <i>Tautvydas Pravilonis, Edgar Sokolovskij (Lithuania)</i>	Remaining Useful Life for Tires on Aircraft's Main Wheels: Prediction Based on quick access Recorder Data - <i>Liubov Rozhkova, Timur Tyncherov (Russia)</i>	The Model of Quasi-Resonant Management of Manufacturing Process with Usage of Entropy and Asymmetry Approaches - <i>Aleksander Semenov, Maria Parfenova, Alla Nikonorova, Sergey Malikov (Russia)</i>
	Extending Fatigue Life of Aluminum Alloys Subjected to Impact – Oscillatory Loading of Different Intensities and Use of Nanotechnology - <i>Mykola Chausov, Pavlo Maruschak, Andrii Pylipenko, Olegas Prentkovskis (Ukraine, Lithuania)</i>	Objective function of predictive models in maintenance, repair, and overhaul organisations - <i>Roman Fedorov, Dmitry Pavlyuk (Russia, Latvia)</i>	Transnational RIS3 Observatory Model For Smart Specialisation Monitoring on Regional, National and European Level - <i>Christopher Meyer (Germany)</i>
	Energy Policy and Economy Based on Smart Grid Routing Protocols and Energy Trading - <i>Tatiana Endrjukaite, Alexander Dudko (Latvia, Japan)</i>	Predictive Maintenance Model of Refined Aircraft Tires Replacement - <i>Timur Tyncherov, Liubov Rozhkova (Russia)</i>	Approaches to Evaluation of Banks' Financial Sustainability - <i>Natalia Konovalova, Aina Caplinska (Latvia)</i>
	Study of the stability characteristics of the motion of an intelligent robotic vehicle - <i>Vladimir Shepelev, Alexandr Gritsenko (Russia)</i>		
	Evaluation of Efficiency of the Energy Storage Systems (ESS) in Problem of Consumed Energy Cost Reducing During Long-Term Planning - <i>Aleksandr Grakovski, Aleksandr Krivchenkov (Latvia)</i>		
12:00 - 13:00	Break		

Time	Virtual room #1	Virtual room #2	Virtual room #3
13:00 - 15:00	Session 5 Smart Transport and Mobility Moderators: <i>Prof. Irina Yatskiv</i> <i>Dr. Giannis Adamos</i>	Session 2 Aviation Moderators: <i>As. Prof. Dmitry Pavlyuk</i> <i>Prof. Alexander Grakovski</i>	Session 7 Education and Training in Engineering Moderators: <i>Prof. Boriss Misnevs</i> <i>Prof. Igor Kabashkin,</i>
	Sustainable Trip Planner Concept Development - <i>Alise Dinko, Irina Yatskiv, Evelina Budilovich (Latvia)</i>	Inbound and Outbound Air Traffic of Riga International Airport Analysis Over a Waypoint LAPSA - <i>Monta Aleksandra Lacane (Latvia)</i>	DIGILOG Project: Digitally Supported and Virtual Study Practices for Modern Logistic Systems - <i>Igor Kabashkin and Consortium of ERASMUS + project (Latvia, Estonia, Finland, Sweden)</i>
	Simulation Technologies of the Mooring Operation to the Berthing Port - <i>Oleksandr Bondarenko, Valery Nekrasov, Oleksii Yastreba (China, Ukraine)</i>	Scenario Modeling in a Centralized Airport Ground Traffic Control System – <i>Farid Saifutdinov, Jurij Tohujev, Ilya Jackson (Latvia)</i>	The Enrollment Marketing Playbook: Employing Enrollment Marketing Strategies into Student-centric, Customer Service-oriented Recruiting Environment - <i>Ioseb Gabelaia (Georgia)</i>
	Mobility and Road Safety Improvement by Optimizing Smart City Infrastructure Parameters: A Case Study - <i>Polina Buyvol, Gulnara Yakupova, Vladimir Shepelev, Eduard Mukhametdinov, Aleksey Boyko (Russia)</i>	Modernization of Landing System Facilities at Riga International Airport - <i>Andrejs Gorbunovs; Monta Aleksandra Lacane (Latvia)</i>	Towards Innovative Education: Developing Digital Learning Strategy in a Modern University - <i>Yulia Stukalina (Latvia)</i>
	Improving the City's Transport System Safety By Regulating Traffic and Pedestrian Flows - <i>Irina Makarova, Vadim Mavrin, Kirill Magdin, Vladimir Shepelev, Aleksandr Barinov (Russia)</i>	Precising the Accuracy of Aviation Spare Parts Forecast - <i>Danila Larin (Russia)</i>	The Impact of Technology-Mediated Interaction: Exploring New Channels for Effective Student-Lecturer Communications in Time of Disruption - <i>Ioseb Gabelaia, Natia Vasadze (Georgia)</i>
	Hybrid Model of Controlling Traffic Flows Within Regional Intelligent Transportation System - <i>Anton Sysoev, Aleksandr Galkin, Elena Khabibullina (Russia)</i>	The Demonstrator of Helicopter Structural Health Monitoring Technique – <i>Aleksey Mironov, Pavel Doronkin (Latvia)</i>	Supply Chain Management and Logistic Development in International Context: Challenge for Cross-National Education - <i>Harald Kitzmann, Igor Kabashkin, Manfred Rössle, Nicolas Dolle (Estonia, Latvia, Germany)</i>
	Sustainability Challenges of Mobility in Areas of Natural, Historical and Man-made Beauty – <i>Giannis Adamos (Greece)</i>	Defining the Best Model to Forecast Aviation Spare Parts with Little Transaction History – <i>Danila Larin (Russia)</i>	Virtual Campus Journey: Personalization VS Customization - <i>Bakhtiyor Esanov, Ajantha Dahanayake (Finland)</i>
15:00 - 15:15	Break		

Time	Virtual room #1	Virtual room #2	Virtual room #3
15:15 - 17:00	Session 5 Smart Transport and Mobility Moderators: <i>Prof. Irina Makarova</i> <i>As. Prof. Darius Bazaras</i>	Session 2 Aviation Moderators: <i>Prof. Alexander Grakovski</i> <i>As. Prof. Monta Aleksandra Lacane</i>	Session 7 Education and Training in Engineering Moderators: <i>As. Prof. Mihail Savrasov</i> <i>Dr. Harald Kitzmann</i>
	Finding the Way at Katowice Railway Station: an Eye Tracking Experiment - <i>Anton Pashkevich, Eduard Bairamov, Tomasz E. Burghardt, Marcin Jacek Klos, Matus Sucha (Poland, Austria, Czech Republic)</i>	Case Study for Riga International Airport Modernization: ILS Localizer Signal Accuracy Defending on Ground Obstacles Located Nearby - <i>Konstantin Vorontsov, Monta Aleksandra Lacane (Latvia)</i>	New Challenges for the Engineering Education System and Ways of their Solutions - <i>Irina Makarova, Vadim Mavrin, Anton Pashkevich, Eduard Mukhametdinov, Kirill Magdin (Russia)</i>
	Digitalization and New Opportunities of Urban Mobility - <i>Irina Makarova, Vadim Mavrin, Anton Pashkevich, Polina Buyvol; Aleksey Boyko (Russia)</i>	Wearable Technology Adaption to Aviation Cabin Crew's Fatigue Assessments - <i>İrem Çevik, Ajantha Dahanayake (Finland)</i>	IT-Platform for Algorithm – Based Automation of Academic Study Programme Development - <i>Nicolas Dolle, Manfred Rössle, Igor Kabashkin, Harald Kitzmann (Germany, Latvia, Estonia)</i>
	Evaluation of the Transport Impact on Environmental Pollution Due to the Use of Cargo Bikes - <i>Vitalii Naumov, Hanna Vasiutina (Poland)</i>	Reliability Model of Integrated Modular Avionics - <i>Vadim Filippov (Russia)</i>	The Study of Students' Opinion on Learning online in the Self-Isolation Period - <i>Ishgaley Ishmuhametov, Larisa Kuzmenko (Latvia)</i>
	Guaranteed QOS Model for Virtual Data Channels in Complex Network Infrastructure - <i>Andrey Chernov, Maria Butakova, Alexander Guda (Russia)</i>	Reliability Model of Air Traffic Control with IMA Onboard Data Link System - <i>Vadim Filippov (Russia)</i>	Nurturing M-Learning for Professional Development Through Online Digital Communication AL Channels During COVID-19 Pandemic - <i>Lia Khmiadashvili, Ana Kazaishvili (Georgia)</i>
	Automation of Traffic Flow Control in Intelligent Transportation Systems - <i>Alexander Galkin, Anton Sysoev, Elena Khabibullina (Russia)</i>		Telepresence Robot as the Teacher's Assistant in a Pandemic Conditions - <i>Anatoly Pozdnyakov, Oksana Pozdnyakova (Latvia)</i>
17:15 - 17:30	Closing remarks and end of the Conference		