

Virtual RelStat-2021

“RELIABILITY and STATISTICS in TRANSPORTATION and COMMUNICATION”
(RelStat-2021)

Agenda

Date: 14-15 October 2021

Time: 10:00 – 17:15

Organizer: Transport and Telecommunication Institute

Keynote Speakers



DR. AMNIR HADACHI

ITS Lab, Institute of Computer Science,
University of Tartu, Estonia

In The Quest of Reconstructing
Accurate Individual Mobility History
from Mobile Network Data



DR. ALEXEY ALEKSANDROV

International Management Institute,
Ukraine; Baltic International Academy,
Latvia

Banking and Investment: how to
control decision based on statistic?
(Big ideas are usually simple ideas)



MAXIM PIVOVAR

CIO S7 Technics, Russia

Digitalization in the area of
maintenance, repair and continuous
airworthiness of aircraft

Date	Time	Virtual room #1	Virtual room #2	Virtual room #3
14.10.2021	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 – 17:15	Parallel Sessions		
Session 2 Aviation		Session 4 Smart Technology	Session 6 Economics & Business	
End of day 1				
15.10.2021	10:00 – 12:00	Parallel Sessions		
		Session 2 Aviation	Session 5 Smart Transport and Mobility	Session 6 Economics & Business
	12:00 – 13:00	Break		
	13:00 – 15:00	Parallel Sessions		
		Session 2 Aviation	Session 5 Smart Transport and Mobility	Session 7 Education and Training in Engineering
15:00 – 15:30	Closing remarks, end of the Conference			

PLENARY SESSION (VIRTUAL ROOM #1)

Moderator:	TTI Chairwoman of the Board, Prof. Irina Yatskiv (Latvia)	
10:00 – 10:15	Opening speech	Prof. Dr. Irina Yatskiv , TTI Chairwoman of the Board
10:15 – 10:30	Welcome speech	Dr. sc. pol. Juris Kanels , TTI Rector
10:30 - 12:30	In The Quest of Reconstructing Accurate Individual Mobility History from Mobile Network Data	Dr. Amnir Hadachi , ITS Lab, Institute of Computer Science, University of Tartu (Estonia)
	Banking and Investment: how to control decision based on statistic? (Big ideas are usually simple ideas)	Dr. Alexey Aleksandrov , International Management Institute (Ukraine)
	Digitalization in the area of maintenance, repair and continuous airworthiness of aircraft	Maxim Pivovar , CIO S7 Technics (Russia)
12:30 - 13:30	Break	
13:30 – 17:15	Parallel Sessions	

THURSDAY, OCTOBER 14

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>Prof. Irina Yatskiv</i> <i>As. Prof. Nadezda Spiridovska</i>	Session 6 Economics & Business Moderators: <i>Prof. Yulia Stukalina</i> <i>Prof. Svetlana Saksonova</i>
	Inventory Policies under Service Level Target: Comparison in Terms of Relevant Costs and Bullwhip Effect - <i>Berdymyrat Ovezmyradov (Latvia)</i>	Structural Analysis of the NLS-KDD Data Sets for Solving the Problem of Attacks Detection Using ML/DL Methods - <i>Boriss Misnevs, Aleksandr Krivchenkov, Alexander Grakovski (Latvia)</i>	Factors Affecting Discount for Lack of Liquidity in Business Valuation - <i>Svetlana Saksonova, Neli Abramishvili, Marina Antonova, Oksana Katalkina (Latvia)</i>
13:30	Ammonia as Clean Shipping Fuel: Perspectives for the Baltic Sea Region - <i>Laima Gerlitz, Eike Mildensrey, Gunnar Prause (Germany, Estonia)</i>	Augmented Reality Data Analysis for Human Needs: Subsistence, Protection, and Leisure - <i>Manal Yahya, Ajantha Dahanayake (Finland)</i>	Application of System Theoretical Elements on a Concept of Management and Leadership Automation - <i>Nicolas Dolle (Germany)</i>
- 15:30	A Combined Strategy of Centralized and Decentralized Inventory Allocation - <i>Valery Lukinskiy; Vladislav Lukinskiy; Darya Bazhina; Ekaterina Averina (Russia)</i>	Fast Inference Based on Set Theory - <i>Igor Bessmertny, Julia Koroleva, Chuqiaoc Yu (Russia, China)</i>	Crowdfunding Cross-Border Business Financing Practice: the Evidence from the Baltic States - <i>Oksana Katalkina, Svetlana Saksonova (Latvia)</i>
	Effects of Real Time Shipping Information in Warehouse Management - <i>Jakolien M. van der Meer, Lauren A.A. Deckers, Thierry M. Verduijn (Netherlands)</i>	Intellectual Analysis of Data on Defective Vehicle Units Using Association Rules - <i>Aleksandr Voroshilov, Alla Krivonogova, Polina Buyvol, Aleksey Boyko and Irina Makarova (Russia)</i>	The Ability of Fintech Companies to Ensure the Stability of the Financial System in Pandemic Time - <i>Jurijs Baltgailis, Anastasiia Simakhova (Latvia, Ukraine)</i>
	Russian River Shipping: Evolution and Perspectives - <i>Mikhail Molotov, Robert Philipp, Gunnar Prause (Germany, Estonia)</i>	Sum of Dependent Variables Generated by Alternating Poisson Flow - <i>Alexander Andronov, Kristina Mahareva (Latvia)</i>	The Determination of Key Competencies for Managers in Russian High-Tech Companies in the Context of the Transition to a New Technological Paradigm - <i>Natalia Salienko, Victoria Klyueva, Irina Pavlova (Russia)</i>
	Improving the Sustainability of Modern Truck Service Networks - <i>Irina Makarova, Polina Buyvol, and Aleksey Boyko (Russia)</i>	The Neural Network Based Ontology Detection on Unstructured Data Flow - <i>Rodion Iurev (Russia)</i>	Framework of Digital Competences for Business and Management Programs in Higher Education - <i>Kristīne Užule, Irina Kuzmina-Merlino (Latvia)</i>
		Urban traffic fingerprints: Identification of Forecasting-Critical Road Segments - <i>Dmitry Pavlyuk (Latvia)</i>	The Tax Nexus in the Digital Economy - <i>Sintija Ziemele, Maris Juruss, Justina Hudenko, Baiba Smite-Roke (Latvia)</i>
15:30 -15:45	Break		

Time	Virtual room #1	Virtual room #2	Virtual room #3
	Session 2 Aviation Moderators: <i>As. Prof. Dmitry Pavlyuk</i> <i>Prof. Aleksandr Grakovski</i>	Session 4 Smart Technology Moderators: <i>As. Prof. Mihails Savrasovs</i> <i>Dr. Emmanuel Merchan</i>	Session 6 Economics & Business Moderators: <i>Prof. Irina Kuzmina-Merlino</i> <i>Prof. Inna Stecenko</i>
15:45 - 17:15	Comparative Statistical Analysis of Airport Flight Delays for the Period 2019-2020. Almaty International Airport Case Study - <i>Iyad Alomar, Marietta Belitskaya, Anna Belitskaya (Latvia)</i>	A New Method for Network Maintenance - <i>Iliia Triapitsin, Ajantha Dahanayake, Bernhard Thalheim (Finland, Germany)</i>	Centralization of a Company's Cash Management and Leadership using Digital Techniques - <i>Nicolas Dolle, Thomas Höfle, Irina Kuzmina-Merlino (Germany, Latvia)</i>
	Statistics and Investigation of CF6 Jet Engines Hot Section Failures - <i>Adham Ahmed Awad Elsayed Elmenshawy; Iyad Alomar (Latvia)</i>	Increasing the Accuracy of the Electronic Control Units' Adjustment in Modern Vehicles Parts to Ensure their Reliability and Safety - <i>Shakhrom Begizhonov, Polina Buyvol, Irina Makarova, Aleksey Boyko and Eduard Tsybunov (Russia)</i>	Evaluation of Credit Policy Implementation in Commercial Banks: Evidence from Latvia - <i>Natalia Konovalova (Latvia)</i>
	Fatigue Risk Indicator Model for Aviation Cabin Crew's Fatigue Assessment - <i>İrem Çevik, Ajantha Dahanayake (Finland)</i>	Testing Uncertainty Assessment of the Electromagnetic Interference Emission Equipment of the Digital Twins - <i>Evgeny Starozhuk, Natalia Salienko, Maria Yakovleva (Russia)</i>	Artificial Intelligence Techniques for Automating Management and Leadership Tasks: Literature Review - <i>Nicolas Dolle, Irina Kuzmina-Merlino (Germany, Latvia)</i>
	One-Word Approach in Text-Mining for Value Identification - <i>Olga Zervina, Yulia Stukalina, Dmitry Pavlyuk, Neil Rubens (Latvia, Japan)</i>	Intelligent Framework and System for Remote Monitoring and Prediction of Power Transformer Conditions - <i>Andrey Chernov, Maria Butakova, Alexander Kostyukov and Oleg Kartashov (Russia)</i>	Application of Data Mining to Assessment of the Sustainable Development Goals Implementation in Business - <i>Olga Kozhevina, Natalia Salienko, Evgeny Danko, Konstantin Ordo, Irina Pavlova (Russia)</i>
	Modern Trends in Approaches to Modelling Technical State of Jet Engines - <i>Vladislav Zhdanov, Alexander Grakovski (Russia, Latvia)</i>		Promotion of Environmental Audit for Transports Companies in Latvia - <i>Inna Stecenko, Galina Reshina, Anna Stecenko (Latvia)</i>
End of day 1			

FRIDAY, OCTOBER 15

Time	Virtual room #1	Virtual room #2	Virtual room #3
	Session 2 Aviation Moderators: <i>Prof. Aleksandr Grakovski</i> <i>As. Prof. Dmitry Pavlyuk</i>	Session 5 Smart Transport and Mobility Moderators: <i>Prof. Igor Kabashkin</i> <i>Prof. Irina Yatskiv</i>	Session 6 Economics & Business Moderators: <i>Prof. Inna Stecenko</i> <i>Prof. Yulia Stukalina</i>
	The Challenges Facing the Aviation Industry Managers in Crises. Management Strategies and Teamwork Management - <i>Iyad Alomar, Najm Abdulaah (Latvia)</i>	Analysis of the Pedestrians and Cyclists' Signage of Road Safety - <i>Piotr Gorzelańczyk; Karolina Włodarczyk; Martin Jurkovic; Tomáš Kalina (Poland, Slovakia)</i>	Evaluating Maritime Cluster Economic Impact: The Maritime Cluster Impact Index - <i>Kaidi Nõmmela, Kati Kõrbe Kaar (Estonia)</i>
10:00 - 12:00	Screening out Candidates for Predictive Analytics in Maintenance, Repairs and Overhaul Organizations - <i>Roman Fedorov; Dmitry Pavlyuk; Lubov Rozhkova (Russia, Latvia)</i>	Best Practices of E-scooters' Operation Across Europe - <i>Olga Giannakari, Maria Tsami, Maria Panou, Maria Papandreou (Greece)</i>	Innovation as the Basis for Increasing the Competitiveness of Small Businesses in Latvia - <i>Jurijs Kočetkovs, Elena Sventitskaya (Latvia)</i>
	Advanced Vibration Diagnostic System for Aviation Jet Engine - <i>Aleksey Mironov, Pavel Doronkin (Latvia)</i>	Demand and Supply of Public Transport Services in Sparsely Populated Rural Areas - <i>Kristīne Malnača (Latvia)</i>	Economic Basis of Digital Banking Services in Smart City - <i>Yelena Popova (Latvia)</i>
	Taxonomy of Candidate's Selection for Prioritized Predictive Maintenance in Maintenance, Repairs, and Overhaul Organizations - <i>Roman Fedorov; Dmitry Pavlyuk (Russia, Latvia)</i>	Enriched Trip Planner Including Indicator of Trip Reliability - <i>Alise Dinko, Irina Yatskiv (Jackiva), Evelina Budilovich (Budiloviča) (Latvia)</i>	Postpandemic Changes in the Structure of Uncertainty from the Perspective of Logistics Process Management - <i>Lukasz Marzantowicz (Poland)</i>
	Optimization of Propeller Performance for a Quadcopter Drone by Applying Aerodynamic Propeller-Ducts - <i>Adham Ahmed Awad Elsayed Elmenshawy, Yahya Abdulraheem Hamdan Alshwaily (Latvia)</i>	An Assessment of Intermodality in Pula and Corfu - <i>Maria Xiga, Chrysostomos Stylios, Konstantinos Malagas, Nikitas Nikitakos (Greece)</i>	Research of Labor Motivation of the Organization's Employees in Crisis Conditions - <i>Liliya Khamzina, Ishgaley Ishmuhametov (Latvia)</i>
	Digital Transformation of an Aircraft Operation Ecosystem - <i>Leonid Shoshin, Vitalii Susanin (Russia)</i>		
	ETL for Aviation Maintenance and Operations as an Operation Research Problem - <i>Maxim Pivovar (Russia)</i>		
12:00 - 13:00	Break		

Time	Virtual room #1	Virtual room #2	Virtual room #3
	Session 2 Aviation Moderators: <i>Prof. Igor Kabashkin</i> <i>Prof. Aleksandr Grakovski</i>	Session 5 Smart Transport and Mobility Moderators: <i>Prof. Irina Yatskiv</i> <i>As. Prof. Mihails Savrasovs</i>	Session 7 Education and Training in Engineering Moderators: <i>As. Prof. Juris Kanels</i> <i>Prof. Boriss Misnev</i>
13:00 - 15:00	Aircraft Reliability Management as Part of the Implementation of the Digital Ecosystem - <i>Vitalii Susanin, Leonid Shoshin (Russia)</i>	Development of Advanced, Safe and Sustainable Micro-Mobility Solutions - <i>Maria Tsami, Olga Giannakari, Maria Panou, Maria Papandreou (Greece)</i>	Information Quality and Usability Assessment of Virtual Campus Journey Apps - <i>Bakhtiyor Esanov, Jiri Musto, Ajantha Dahanayake (Finland)</i>
	How to Use Machine Learning to Predict the Remaining Useful Life for Aircraft Wheels from Public Data - <i>Liubov Rozkova, Timur Tyncherov (Russia)</i>	Free Public Transport Policy: Modelling of Implementation in Riga - <i>Yury Voronin, Irina Yatskiv (Jackiva) (Russia, Latvia)</i>	Education Mobility as a Service: Model of the Ecosystem - <i>Boriss Misnevs, Igor Kabashkin, Kristine Uzule (Latvia)</i>
	Models of Decision Support for Aircraft Maintenance Related to Repainting Process - <i>Irina Bodrova (Russia)</i>	Road Infrastructure and Biodiversity Conservation – <i>Denis Vasiliev (Latvia)</i>	The New Technological Solution in the Organization of Sports Activities of Non-Professional Organizations in the Context of the Green Business: Problems and Perspective - <i>Daniil Kulikov, Ishgaley Ishmuhametov (Latvia)</i>
	Optimizing the Level of Slow-Moving Aviation Spare Parts Inventory with EOQ using Bootstrap for De-mand Assessment and Parameters from Future Planning – <i>Danila Larin (Russia)</i>	Closed Biotechnological Cycles in Life Support Systems of Autonomous Transport Systems - <i>Sergey Glukhikh (Russia)</i>	Scholarships as Components of Marketing and Recruiting Strategy - <i>Ioseb Gabelaia (Georgia)</i>
	Improving the Accuracy of Forecasting the Labor Intensity of Aircraft Heavy Maintenance - <i>Timur Tyncherov, Liubov Rozkova (Russia)</i>	First-Last Mile for Riga Public Transport Services: Challenges in Covid and Post-Covid Time - <i>Vaira Gromule, Irina Yatskiv (Jackiva), Evelina Budiloviča (Budilovich) (Latvia)</i>	Personnel Management: the Problem of Aging in the Academic Environment - <i>Oksana Pozdnyakova, Anatoly Pozdnyakov (Latvia)</i>
15:00 - 15:30	Closing remarks, and end of the Conference		