

RaTSiF-2025

The 48th Research and Technology – Step into the Future Conference

Agenda

Date: 5th December 2025

Time: 10:00 – 17:00

Location: Transport and Telecommunication Institute

Link to Plenary Session: <https://meetings.tsi.lv/b/jel-dil-vri-tg0>

PLENARY SESSION		
Aud. I		
Moderators:	Prof., Dr.sc.ing., Dmitry Pavlyuk	
10:00 – 12:00	Welcome Speech	Juris Kanels, Ph.D.sc.pol., Rector, TSI (Latvia)
	Inclusivity by Design Driving MaaS Personalisation for a More Convenient Public Transport Experience for All	Irina Yatskiv (Jackiva), Dr.sc.ing., Professor, TSI (Latvia)
	Toward AI-Driven, Robotic, and Computer Vision Integration in Wire Arc Additive Manufacturing (WAAM): An Investigative Approach	Samuel Moveh, Dr.sc.ing., Associate Professor, TSI (Latvia)
	Bridging Technology & Human Factors in Aviation	Olga Zervina, Dr.sc.ing, Associate Professor, TSI (Latvia)

Parallel Session

SESSION #1_Part 1 (Aud. I)

Link to Session 1_Part 1: <https://meetings.tsi.lv/b/jel-roc-hhp-i&a>

Online: Only for Distant Learning Students

12:30 – 17:00		
COMPUTER PROBLEMS OF THE INFORMATION SOCIETY AND THE MODERN ELECTRONICS INFORMĀCIJAS SABIEDRĪBAS DATORIZĀCIJAS PROBLĒMAS UN MŪSDIENU ELEKTRONIKAS PASAULE		
Moderators:	Prof., Dr.sc.ing. Mihails Savrasovs Prof., Dr.sc.ing. Irina Pticina	
12:30 – 14:30	A Method for Requirements Traceability in Agile Project Management	Rūta Laizāne
	Sustainability in Information Systems: Green IT and Eco Efficiency	Aiswarya Wilson
	GenAI-Based Evaluation of IT Helpdesk Performance Based on Conversation Records	Nikolajs Vasiljevs
	Developing and Researching Information Systems Architecture for Predictive Maintenance in the Oil Industry	Orkhan Rustamli <i>online</i>
	Managing User Resistance and Change in ERP Rollouts	Madara Geide <i>online</i>
	Impact of Agile Methodologies on Team Productivity in IT Projects	Nadezda Gura <i>online</i>
14:30 – 14:45	Break	
Moderators:	Prof., Dr.sc.ing. Mihails Savrasovs Assoc.Prof., Dr.sc.ing. Nadezhda Spiridovska	
14:45 – 17:00	Predictive Analysis of Road Accident Hotspots in Kerala	Nambron Athira Krishnan
	Business Intelligence Framework for Customer Segmentation in the Indian Banking Sector	Ann Nimisha Akathoottuparambil Vincent
	Framework for Integrating Intelligent Transportation Systems Concepts for Sri-Lanka	Tharini Malavige
	Integration of AI-Based Risk Prediction Tools into Project Management in Insurance Companies	Andrejs Glušenoks
	Generative AI in Project Management: Designing a Conceptual Framework	Pavels Kulajevs
	Development of a Framework for Assessing the Impact of AI on the Agile Software Development Life Cycle (SDLC)	Oksana Roslova <i>online</i>

Parallel Session

SESSION #1_Part 2 (Aud. 220)

Link to Session 1_Part 2: <https://meetings.tsi.lv/b/jel-sy5-vfp-5fa>

Online: Only for Distant Learning Students

COMPUTER PROBLEMS OF THE INFORMATION SOCIETY AND THE MODERN ELECTRONICS INFORMĀCIJAS SABIEDRĪBAS DATORIZĀCIJAS PROBLĒMAS UN MŪSDIENU ELEKTRONIKAS PASAULE		
12:30 –14:30		
Moderators:	Prof., Dr.sc.ing. Aleksandr Grakovski Prof., Dr.sc.ing. Dmitry Pavlyuk	
12:30 –14:30	Combinatorial Optimisation Problems with Reliability Constraints: Quantum Approach	Alexey Leontyev
	Neural-Network-Based Acoustic Monitoring System for Turbocharged Engines	Nikita Ostrovenecs
	Improvement of Security and Transparency in Data Exchange Procedures Applying Blockchain and Identity-Based Encryption Technologies	Jevgenijs Golubevs
	Comparative Evaluation of Sentiment Analysis Tools for Social Media Platforms	Shahab Ahmad
	Predicting Student Academic Success Using a Hybrid Machine Learning Model	Vihanga Dasun Priya Kulasekara
	Adaptive Radar System Architecture for Autonomous Robotic Mobility	Ivans Gercevs
	From Text to Quantum State as a Computational Framework for Contextual Legal Interpretation	Judr Dmitry Bubly and Olga Zervina
14:30 – 14:45	Break	

Parallel Session

SESSION #2 (Aud. 222)

Link to session 2: <https://meetings.tsi.lv/b/jel-wgl-aeu-xaz>

Online: Only for Distant Learning Students

12:30 – 17:00		TRANSPORT AND LOGISTICS TRANSPORTS UN LOGISTIKA
Moderators:	Prof., Dr.sc.ing. Iyad Alomar Assoc.Prof., Dr.sc.ing. Evelina Budilovica Asst.Prof., Dr.sc.ing. Berdymyrat Overzmyradov	
12:30 – 14:30	A Literature Review on Predictive Maintenance and Continuing Airworthiness Optimization In Business Aviation by Focusing on Aircraft Type Bombardier Global Express	Abdulali Baghiyev
	Risk Management in Planning and Implementation of Transport Megaprojects: From Classical Success Criteria to a Data-Driven Systemic Approach	Anita Rudule-Jansone
	Structured Data Logistics (SDL) Index for Assessing Maturity and Enabling Automated Decision-Making in Construction	Uldis Jansons
	Unlocking the Potential of AI in Uzbekistan’s Trade and Logistics Sector	Otabek Usmanov
	Designing Adaptive And Resilient Airport Operations: A Framework For Managing Surge Demand During Planned Mega-Events	Alina Antonia Adam <i>online</i>
	Gender Dynamics in Aviation: Evaluating Female Participation and Its Socio-Economic Contributions to the Expansion of UAE-Based Airlines	Maria Clara Estrada Galeano <i>online</i>
	A Framework for the Dynamic Re-Designation of Contingency (Emergency) Rail Routes in the EU	Inga Lencēviča <i>online</i>
14:30 – 14:45	Break	
14:45 – 17:00	Impact of Sustainability Regulations on the Performance of Major EU Air Cargo Integrators	Margarita Ucika
	Enhancing Safety and Workload Management in EVTOL Cockpits through the Assessment of Pilots’ Perceptions of HMI Models	Azeem Shafqat
	An Assessment of the Investment Attractiveness of an Airline Company	Aziz Sultonov
	Failure Analysis for Airbus A220-300 Auxiliary Power Unit	Anna Marija Kozacenko

	Determinants of Airline Choice and Willingness to Pay for Premium Services: A Case Study of Estonian Passengers	Rebeka Russak <i>online</i>
	Financial Evaluation of TUS Airways' Green Hangar Investment: A Strategic Perspective on Sustainable Business Development	Natalja Milovanova <i>online</i>
	Perceived Safety Management System Gaps And Challenges in ACMI Operations: A Cross-Organisational Survey-Based Study	Alina Risteska <i>online</i>

Parallel Session

SESSION #3 (Aud. 221)

Link to session 3: <https://meetings.tsi.lv/b/jel-i2m-c4x-3pu>

Online only for Distant learning students

12:30 – 17:00 MARKET: RESEARCH, PROJECTS, TECHNOLOGIES AND PROBLEMS OF THE MODERN ECONOMY AND BUSINESS TIRGUS: PĒTĪJUMI, PROJEKTI, TEHNOLOĢIJAS UN MŪSDIENU EKONOMIKAS UN BIZNESA PROBLĒMAS		
Moderators:	Prof., Dr.oec. Inna Stecenko Prof., Dr.oec. Yulia Stukalina Prof., Dr.oec. Irina Kuzmina-Merlino	
12:30 – 14:30	A Systematic Literature Review of Digital Transformation in the Public Sector: Implications for Governance and Service Innovation	Mustafa Yaasin Sheik
	Digital Assets and Interconnectedness in European Financial Institutions	Nijat Masmaliyev and Mehemmed Maharramov
	DO SQRTM and Cholesky Spillover Indices Bound Each Other? Evidence from Variance-Covariance Matrix Tuning	Mehemmed Maharramov
	Digital Transformation of the HORECA Sector in Azerbaijan	Rasim Isgandarov
	Strategic Alignment for the SDGS: A Literature-Based Roadmap For Sustainable Business Transformation in Sub-Saharan Africa	Etian Boress Kemgou Voptia
	Development of Organizational Resilience of Startups	Zeyad Sobhy Ahmed Elsayed Ahmed
	Digital Economy and the Urban-Rural Income Gap: Strategies for Cross-Border Innovation from China	Bo Yang <i>online</i>
	Monetising Data Quality Risk: A Model-Agnostic Matrix for Pricing Defects in Credit Portfolios	Daniel Mitrofanovs <i>online</i>
14:30 – 14:45	Break	

14:45 – 17:00	Comparative Study of Explainable Models in Fraud Detection	Ibrahim Israfilov
	Designing an Ethical Scorecard for AI-Enabled Financial Services	Mehak Gupta
	Generative AI as a Virtual CEO: Strategic Coherence in Multi-Scenario Competitive Simulations	Ugo F. de F. L. do Prado Pacificque
	KPIs For Sustainable Marketing	Chau Long Tran
	Informal Trade in the Digital Economy: Pathways and Barriers in West Africa	Diane Aliou Yasmine
	Comparative Analysis of Digital Employment Platforms for People with Disabilities	Natig Safarli <i>online</i>
	Drone-Based Irrigation Monitoring for Sustainable Water Management in Azerbaijan’s Agricultural Sector	Sadat Alizada <i>online</i>
	Analysing of the Impact of Digital and Green Transformation on the Business World: In Case of Azerbaijan and Latvia Examples	Samra Mansimli <i>online</i>

