RaTSiF-2024

The 45th Research and Technology – Step into the Future Conference

Agenda

Date: 19th April 2024
Time: 10:00 – 17:00
Location: Transport and Telecommunication Institute
Link to plenary session: https://meetings.tsi.lv/b/jel-b2j-v8m-x92

PLENARY SESSION (Aud. 130)		
Moderators:	**Prof., Ph.D. Emmanuel Merchan** **Mg.Oec. Valerija Kozlova**	
10:00 - 12:00	Welcome Speech	**Juris Kanels**, Ph.D., Rector, TSI (Latvia)
	The impact of AI in the Education Process from a Doctoral Student´s Perspective	**Aleksejs Vesjolijs, Mg.Sc.Ing.,** Researcher**,** TSI, (Latvia) **Francesco Maria Turno, Mg.Sc.Ing.,** TSI (Latvia)
	Urban Logistics Trends from Planning to Implementation	**Mihails Potihonins,** Project Manager for Transportation and Mobility Development Projects, Riga City Council (Latvia)

Parallel Session

SESSION #1_Part 1 (Aud. 130)

Link to Session 1 Part 1: https://meetings.tsi.lv/b/jel-hv9-sba-3r0

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. Nadezhda Spiridovska Prof., Ph.D. Emmanuel Merchan Prof., Dr.sc.ing. Aleksandrs Grakovskis**	
12:30 - 14:30	Enhancing Supply Chain with Blockchain	Gourav Deepak
	Remote Scan & Recognition of Human's Signature	Alan Terbeche, Clément Delestre, Jean De Rosnan, Saly Yang, Victor Barouh
	Comparative Data Visualization between France and Latvia	Sania Badirou, Ibtihal Chaouch, Mathieu Duffee, Marina Kiesse-Samba, Haby Niane
	Enhancing Decision-Making in Information Systems with AI Tools: A Case Study Analysis	Kafumukache Besa Bwalya
	Personal Information Management Using Adaptive Information Systems *(online)*	Sergejs Paskovskis
14:30 - 14:45	**Break**	
14:45 - 17:00	Empowering a Large Language Model with New Data: Parameter Efficient Fine-Tuning vs. In-Context Learning	Yann Jojo Babala-Masiala, Leopold Nathan, Ablaye Sow, Sofyane Chraki, Yasmine Houhou, Thylan Doumbe Endene
	Evaluating the Effectiveness of Existing Intrusion Detection Systems in Small and Medium-Sized Enterprises (SMEs)	Prashanth Bhatti
	The Automated Business Processes Integration and its Impact on SMEs in Latvia	Jevgenija Fatunova
	Best Practices for Managing Remote Teams	Stanislavs Makarevičs
	Framework of Information System for Sustainability Reporting	Sanita Bringmane
	Recommendation for Design Mobile Application in Event Management Industry	Sergejs Kakta
	Enhancing Inverse Kinematics for Singularity-Free Trajectories in Robot Manipulators	Nawel Chekkal, Erwann Chassagne, Benoit Thomas, Simon Feger, Yannick Mechouk, Said Sefiane

Parallel Session

SESSION #1_Part 2 (Aud. II)

Link to Session 1 Part 2: https://meetings.tsi.lv/b/jel-rg8-7rj-4vl

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. Irina Pticina Assoc.Prof., Dr.sc.ing. Samuel Moveh**	
12:30 - 14:30	Comparative Analysis of LLM-Based Approaches for SQL Generation	Maksim Ilin
	Research of Boosting Algorithms Versus Traditional Methods in Credit Card Fraud Detection Across Varied Datasets	Justs Vīdušs
	Unsupervised Machine Learning Approach for Hierarchical Graph-Based Representation of Natural Language Text Collections	Jevgenijs Bodrenko
	Rag Refined: a Detailed Investigation into Diverse Enhancement Techniques	Sigita Lapina
	Predictive Analytics for Online Casino Revenues in Australia: an Integration of Economic Indicators and Weather Data *(online)*	Janis Zelannovs
	Development of a Mathematical Model for Optimizing Bead Geometry in 3D Printing of Structural Aviation Components Using Wire Arc Additive Manufacturing (WAAM)	Rostislavs Palivoda
	The Development of a Model for Accelerated Production of UAVS in Latvia *(online)*	Anar Veliev
14:30 - 14:45	**Break**	
14:45 - 17:00	Development of an AI Framework for Monitoring, Maintenance and Modeling for Domestic Wastewater Treatment by Biological Wastewater Treatment Processes	Arnis Birzmalis
	Developing a Machine Learning Model to Mitigate Bias in the Future AI-Based Recruitment in Public Sector	Ērika Todjēre
	Improvement of Machine Leaning Algorithms Performance by Data Set Dimensionality Reduction Using Cellular Automata	Alexey Kuchvalskiy
	Evaluation of Microcontrollers Efficiency for Developing an Industrial Mini Robot Control System	Ivans Gercevs
	Vibration Analysis-Based Fault Diagnosis of Electric Motor-Powered Machines Using Convolutional Neural Networks	Marawan Youssef
	Application of Time Series Algorithms for Container Imbalance Forecasting Using Event Data	Vjačeslavs Matvejevs
	Real-Time Lane Detection and Tracking for Autonomous Vehicle Control	Samuel Moveh

Parallel Session

SESSION #2 (Aud. III)

Link to session 2: https://meetings.tsi.lv/b/jel-p3a-pon-x0q

Online: Only for Distant Learning Students

12:30 - 17:00	TRANSPORT AND LOGISTICS TRANSPORTS UN LOĢISTIKA	
Moderators:	**Asst.Prof., Ph.D. Berdymyrat Ovezmyradov Asst.Prof., Dr.sc.ing. Olga Zervina**	
	Mitigating Human Errors and Boosting Efficiency through the Integration of AI in Operations Management in Airline	Slavia Robert Kanjirethingal
	Scope 3 Greenhouse Gas Emissions Accounting and Reporting Framework for an Airline Company	Jekaterina Šavikina
12:30 - 14:30	Research of Smart and Automatised Solutions in Warehouse Logistics	Kuat Kutymbetov
	Sustainability Component of the Development of the International Transport Corridor	Zura Sansyzbayeva
	Estimating Generalised Transport Costs of Road Freight Transportation in the Baltic Sea Region	Angelina Nekludova
14:30 - 14:45	**Break**	
Moderators:	**Assoc.Prof., Dr.sc.ing. Evelina Budiloviča Asst.Prof., Ph.D. Berdymyrat Ovezmyradov**	
	Customer Satisfaction in Information Provision in Bus and Coach Terminals	Diane Aliou Yasmine
	Development of Trucking Services in Nigeria (Problems & Perspectives)	Olusola Ademola
	Use of Green Vehicle in Green Logistics in India	Simil Mundakkal
	Improvement of Logistics Sector in Uzbekistan through Integration of Smart Technologies	Otabek Usmanov
	Development of "Green Logistics" Strategy and Justification of its Choice for Ensuring Sustainability a Medium-Sized Courier Company	Ernests Grahoļskis

Parallel Session

SESSION #3 (Aud. 221)

Link to session 3: https://meetings.tsi.lv/b/jel-dpj-pxb-yel

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. Irina Kuzmina-Merlino** **Prof., Dr.sc.administr. Yulia Stukalina**	
12:30 - 14:30	Impact of Real-Time Customer Communication on E-Commerce Success	Taley Muhammad
	Role of Social Media for Boosting Ecotourism	Navjot Kaur
	Digital Finance and Economic Growth of a Country	Etian Boress Kemgou Voptia
	Managing Investment in Human Capital in a Changing Environment	Edgars Bilde
	Dodd-Frank Regulation Risk Management in Banking Industry	Aleksandra Fesjuka
	AI-Driven Digital Transformation: Challenges and Opportunities for Organisations *(online)*	Amli Aboo Bakar
14:30 - 14:45	**Break**	
14:45 - 17:00	Building a Successful Business after Completing a Business Incubator Program: Success Factors and Challenges	Artjoms Čubs
	Use of Artificial Intelligence in Human Resource Management	Ana Enache
	Identification of Online Food Sales Market Trends in Latvia	Daņiils Urbans
	Creating Innovative Solutions for HR Management in the Context of Changes in the Latvian Labor Market	Alina Uljanovska
	Development of Marketing Strategy for Business Expansion	Vijay Singh Thakur

Parallel Session

SESSION #4 (Aud. 222)

Link to session 4: https://meetings.tsi.lv/b/jel-9xg-7tu-c5b

Online only for Distant learning students

14:45 - 16:30	MODERN TECHNOLOGIES OF EDUCATION MŪSDIENU IZGLĪTĪBAS TEHNOLOĢIJAS	
Moderators:	**Prof., Dr.sc.ing. Boriss Misnevs Assoc.Prof., Dr.psych. Ishgaley Ishmuhametov**	
14:45 – 16:30	Basic Teacher Kit for Developing Lectures Using Artificial Intelligence	Boriss Misnevs
	Artificial Intelligence Using in the Education Process at Riga Purvciems Secondary School	Mihails Zakutajevs
	Evaluate the Effectiveness of Personnel Training Systems in Organizations *(online)*	Aaliyah Lyubov Mikhaylova