europass

Dr. Aleksejs Vesjolijs

Date of birth: 27/03/1985 | **Place of birth:** Riga, Latvia | **Nationality:** Latvian | **Gender:** Male | **Phone number:** (+371) 26878952 (Mobile) | **Email address:** veselij@gmail.com | **Website:** https://orcid.org/0009-0008-2845-7498 | **LinkedIn:** linkedin.com/in/alex-veseliy | **Skype:** amur_scaevola | **Address:** Hospitalu 37-50, 1013, Riga, Latvia (Home)

ABOUT ME

- Lead Data Engineer at Accenture
- Assistant Professor (2026, Transport and Telecommunication Institute)
- Dr. Sc. Ing (2025, Transport and Telecommunication Institute)

WORK EXPERIENCE

ACCENTURE BALTICS – RIGA, LATVIA

SENIOR DATA ENGINEER – 17/06/2023 – 31/05/2026

Senior Data Engineer
Fields: Health & Public Services, Supply Management
Skills: Python · Databricks · Scala · Spark · PySpark · Docker · Airflow · Extract, Transform, Load (ETL) · ETL Tools · SQL · Amazon Web Services (AWS) · Microsoft Azure · Azure DevOps · Shell Scripting · Snowflake · CRM

LEAD DATA ENGINEER – 01/06/2025 – Current

Fields: Health & Public Services
Skills: PySpark · Terraform · Apache Iceberg · Amazon Web Services (AWS) · Python · Databricks · Scala · Spark · Docker · Airflow · Extract, Transform, Load (ETL) · ETL Tools · SQL · Microsoft Azure · Azure DevOps · Shell Scripting · Snowflake · CRM

TECHNICAL BUSINESS ANALYST – ACCENTURE BALTICS – 19/12/2022 – 16/06/2023 – LATVIA

Technical Business Analyst / Big Data product engineer
Field: Hospitality
Skills: Information Technology · Change Management · Agile Project Management · Scrum · Airflow · Snowflake · Microsoft Power BI · SQL · Python (Programming Language) · AWS

TRANSPORTA UN SAKARU INSTITŪTS – RIGA, LATVIA

UNIVERSITY RESEARCH ASSISTANT – 01/10/2021 – 27/02/2025

- Domain: Telematics and Logistics, Hyperloop, MIS, software engineering, data engineering
- Supporting Senior research fellows with systematic analysis and synthesis
- Designing, implementing, and analyzing research projects
- Collecting, processing, and interpreting qualitative/quantitative data
- Supporting writing research reports, papers, and conference presentations

RESEARCHER – 28/02/2025 – 26/08/2026

- Domain: Engineering, Economics, Quantum Computing
- Conduct scientific research, contribute to scientific cluster, publish research papers

ASSISTANT PROFESSOR – 26/08/2026 – Current

- Domain: Programming, Engineering, Hyperloop, Business & Economics, Quantum Computing

COMPUTER SCIENCE LECTURER – BIZNESA, MĀKSLAS UN TEHNOLOĢIJU AUGSTSKOLA "RISEBA" – 01/09/2022 – Current – RIGA, LATVIA

Teaching Masters degree students in discipline "Big Data Tools"

DATA ENGINEER – ACCENTURE BALTICS – 01/09/2019 – 18/12/2022

Big Data Engineer / Spark application developer
Field: Health Care & Public Services
Skills: Scala · Apache Spark · Shell Scripting · CA Workload Automation AE · Tableau · Extract, Transform, Load (ETL) · ETL Tools · SQL · Cloudera · Hadoop · MapReduce · Amazon Web Services (AWS) · Python

SOFTWARE DEVELOPER – ACCENTURE BALTICS LLC – 15/04/2019 – 01/09/2019 – RIGA, LATVIA

Business or Sector: Information and communication

Junior Data engineer / API Development
Field: Video Analytics
Skills: Swagger API · API Development · Amazon Web Services (AWS) · QlikView

EDITOR-IN-CHIEF – EIROPAS JAUNATNES TĪKLS (EUROPEAN YOUTH NETWORK) – 09/01/2015 – 05/05/2022 – RIGA, LATVIA

Journalism, proof-reading articles, content creation, online platform management.

IT STARTUP EVENT ORGANIZER – TECHRIGA 2018 – 01/12/2018 – 18/12/2018 – RIGA, LATVIA

ACCOUNTANT AND FINANCIAL CONSULTANT – SIA GRAMATVEDIBA UN AUDITS LATVIA – 28/12/2016 – 31/12/2017 – RIGA, LATVIA

EDITOR-IN-CHIEF – KAS NOZĀRE BŪVNIECĪBA – 01/04/2017 – 30/11/2017 – RIGA, LATVIA

Editor-in-chief for Latvian magazine about building and construction.

LEADERSHIP COURSES TRAINER – BALTIC EDUCATION CENTRE – 08/08/2016 – 08/11/2016 – RIGA, LATVIA

PORTAL EDITOR – VESTI.LV – 10/12/2014 – 15/10/2015 – RIGA, LATVIA

Online portal management

GRAPHIC DESIGNER – BUSINESS AND BALTICS – 10/07/2008 – 10/12/2014 – RIGA, LATVIA

Newspaper & magazines layout, print and web design, IT support, online editing

GRAPHIC DESIGNER – BUSINESS AND BALTICS – 10/12/2006 – 20/12/2014 – RIGA, LATVIA

Newspaper & magazines layout, print and web design, IT support, online editing

GRAPHIC DESIGNER – KOMMERSANT BALTIC – 16/08/2005 – 21/12/2006 – RIGA, LATVIA

Print magazine layout & design

EDUCATION AND TRAINING

01/09/2021 – 10/10/2025 Riga, Latvia
PHD IN ENGINEERING (DR. SC. ING) TRANSPORTA UN SAKARU INSTITŪTS

Thesis Decision-making system for Hyperloop technology implementation

01/09/2026 – 01/09/2028
DATABRICKS CERTIFIED DATA ENGINEER ASSOCIATE Databricks Academy

Website https://credentials.databricks.com/fb25d93c-90ca-44a0-a8ee-d0f30150c7b0#acc.J4dzpNu2 |

Field of study Data Engineering

17/08/2026 – 17/08/2029
AWS CERTIFIED SOLUTIONS ARCHITECT – ASSOCIATE (8547BE3A4A424EFAB53062284B7C70D9) Amazon Web Services Training and Certification

Website https://aws.amazon.com/verification | **Field of study** Cloud Engineering

22/12/2022 – 22/12/2022
AWS CERTIFIED CLOUD DEVELOPER ASSOCIATE Amazon Web Services

AWS Certified Developer - Associate

Website https://aws.amazon.com/verification | **Field of study** Information and Communication Technologies |

Valid until 22/12/2029

13/09/2021 – 13/09/2021
AWS CERTIFIED CLOUD PRACTITIONER (9LDKPKLDLB1EQX3V) Amazon Web Services (AWS)

Describe the subjects or topics that you learnt.

Website https://aws.amazon.com/verification

16/07/2026 – 25/08/2026 Cambridge, United States
QUANTUM COMPUTING: STRATEGY AND IMPACT MIT - Massachusetts Institute of Technology

Level in EQF EQF level 6

29/01/2024 – 04/03/2024 London, United Kingdom
CRITICAL THINKING: PROBLEM-SOLVING AND DECISION-MAKING IN A COMPLEX WORLD The Economist Education

Website https://economist.credential.getsmarter.com/7f9144d6-e035-4199-885e-7853134d0b6b#gs.5x6hv8

01/06/2022 – 31/08/2022 London, United Kingdom
THE ECONOMIST - PROFESSIONAL COMMUNICATION: BUSINESS WRITING AND STORYTELLING WITH DISTINCTION The Economist Education

Website https://www.economist.com/

01/09/2019 – 03/07/2021 Riga, Latvia
MASTER OF ENGINEERING SCIENCES IN INFORMATION SYSTEMS MANAGEMENT TRANSPORTA UN SAKARU INSTITŪTS

Thesis EVALUATION OF THE IMPORTANCE OF ETHICAL REQUIREMENTS IN AI SOLUTIONS USING AN EMPIRICAL APPROACH

01/09/2015 – 16/06/2019 Riga, Latvia
BACHELOR OF SOCIAL SCIENCES IN MANAGEMENT SCIENCE TRANSPORTA UN SAKARU INSTITŪTS

Thesis Comparative Analysis of the Effectiveness of Media Agency's Advertising Business: case of Latvia, Sweden and France

10/07/2014 – 11/08/2014 Paris, France
STRATÉGIE DE COMMUNICATION Centre de formation des journalistes

LANGUAGE SKILLS

Mother tongue(s): **RUSSIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
LATVIAN	C2	C2	C2	C2	C2
GERMAN	C1	C1	B2	B2	B2
SPANISH	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PUBLICATIONS

2025

Evaluating the socio-economic impacts of Hyperloop technology through the lens of labour market: a focus on Intelligent Transportation, case of Latvia

How will Hyperloop impact the daily lives and economic well-being of Latvian residents, as well as the development of the country's Intelligent Transportation System? How much are residents of Latvia willing to pay for a Hyperloop ticket, considering current labour market dynamics? This research presents a comprehensive analysis of the socio-economic impacts of Hyperloop technology, with a focus on the EU's green and digital transformation objectives. The study includes a case analysis of the European Hyperloop Week 2023 contest, specifically the teams competing in the socio-economic category: DELFT, Queen's Hyperloop, Avishkar, Hyperlink, and Swisstube. The socio-economic impacts of Hyperloop were evaluated across fifteen categories. A survey conducted among students and graduates in transport, transport services, and logistics, residing in Riga, revealed significant interest in Hyperloop technology and its potential implementation in Latvia. However, respondents indicated they are unwilling to pay more than 20 EUR for a city ride or 30 EUR for an intercity connection. The majority also expressed a willingness to consider international travel via Hyperloop. To assist decision-makers and stakeholders, the study provides policy recommendations for the successful implementation of Hyperloop in Latvia.

Vesjolijs, A., Skorobogatova O., (2025) Evaluating the socio-economic impacts of Hyperloop technology through the lens of labour market: a focus on Intelligent Transportation, case of Latvia. FTC 2025, Berlin, Germany

Authors: Aleksejs Vesjolijs & Oksana Skorobogatova | **Journal Name**: Future Tech Conference 2025 | **Publisher**: Springer

2025

Hyperloop Routes Optimisation Considering Barren Soil, Case of Latvia

This study investigates the optimisation of Hyperloop routes through barren soils in Latvia, aimed at leveraging underutilised land to minimise environmental impact and promote sustainable infrastructure. Methodology for Hyperloop route construction considering barrel soils is proposed based on USA Swiftube Hyperloop development plans for Latvia. Source of data for study is Copernicus Data Space Ecosystem. Solution utilizes Binary Integer Programming and Multi-Criteria Decision Analysis to identify optimal routes, maximising barren soil utilisation. The result demonstrates 35.4% improved efficiency compared to non-optimised route and 162.2% towards optimisation without considering barren soils. Optimised total barren soil coverage is 402.08 km against 340.18 km and 111 km, correspondingly. The selected routes strategically utilize areas of barren soil to minimize environmental impact on fertile lands. Key connections such as Riga to Jelgava and Daugavpils to Rezekne play crucial roles in ensuring that the network is both efficient and sustainable. Proposed methodology highlights the benefits of integrating environmental data into transport planning, aligning with EU soil conservation strategies 2030, and contributing to UN SDG 9, SDG 12 and SDG 13.

Vesjolijs, A. (2025). Hyperloop Routes Optimisation Considering Barren Soil, Case of Latvia. RelStat 2024. Springer, Cham. https://doi.org/10.1007/978-3-031-87532-8_12

Authors: Aleksejs Vesjolijs | **Journal Name**: Reliability and Statistics in Transportation and Communication 2024 | **Volume, Issue and Pages**: vol 1337 | **Publisher**: Springer, Cham

2025

Assessment of Socio-Economic Impacts of Hyperloop Technology on European Trade Routes

This study investigates the possible socio-economic impacts of Hyperloop technology on establishing and reshaping EU trade routes. Hyperloop—a novel ultra-high-speed transportation system—demonstrates the capability to achieve supersonic speeds to move cargo and passengers. Delivering goods in a faster and sustainable way could change the existing trade routes and offer new opportunities for the development of international trade. This research focuses on assessing how Hyperloop may influence existing EU trade routes by improving delivery times and reducing energy usage/carbon emissions (these terms will be used interchangeably throughout the paper where both reducing long-terms costs and meeting climate goals are equally impacted by this technology). Further objectives include evaluating potential new trade routes that could emerge due to Hyperloop's capabilities. In this paper, twelve different scenarios are constructed and compared; these scenarios contain the description of current EU trade routes that could be influenced by Hyperloop and those that could be introduced given the improved delivery times and sustainable business opportunities. The gravity model is proposed and an equation is estimated using the PPML (Poisson Pseudo Maximum Likelihood) method based on Eurostat and IMF open data. Based on the research results, different socio-economic outcomes for different layers of EU trade, including negative and positive impacts, are identified. The findings suggest that deploying Hyperloop technology would result in a 15% increase in exports and a 10% increase in imports for European trade. Both positive and negative socio-economic impacts are identified, highlighting the complexities of adopting such a disruptive technology. The research results could be used in the process of decision-making for estimating risks and performing economic analysis on various aspects of the EU trade policy. The study results could also guide EU decision-makers in assessing the main impacts of Hyperloop technology on the transportation industry, on the environment, and on society, in the context of further developing EU trade routes.

Vesjolijs, A., Stukalina Y., Zervina O., (2025). Assessment of Socio-Economic Impacts of Hyperloop Technology on the European Trade Routes. Economies. https://doi.org/10.3390/economies13030065

Authors: Aleksejs Vesjolijs, Yulia Stukalina, Olga Zervina | **Journal Name**: Economies | **Volume, Issue and Pages**: 13(3), 65 | **Publisher**: MDPI

2025

Evaluation of Hyperloop Technology Project Maturity Through System Dynamics: Modelling and Simulation

This paper introduces eight stock-and-flow models to assess project maturity in the Hyperloop technology domain, based on multivariate technical, social, and financial criteria. Four scenarios are simulated: rapid decline, gradual decline, rapid growth, and sustainable growth. An interactive dashboard has been developed to visualise the simulation results and provide public access to the models. The primary users of these models are project decision-makers and industry analysts. The core research methodology utilised is system dynamics modelling, which captures the challenging dynamics of multi-loop systems inherent in Hyperloop transportation projects. The results demonstrate the models' effectiveness in providing real-time insights into how various factors interact and affect project performance. The proposed models facilitate real-time evaluation of project maturity and offer a conceptual framework for analysing context-specific factors critical to successful project implementation. This research supports the European Green Deal and Digital Transformation 2030 strategies by contributing to the development of strategies for Hyperloop technology advancement – an EU Commission priority for Tourism and Sustainable Transportation, as set by the European Commission President on 18 September 2024.

Vesjolijs, A., (2025). Evaluation of Hyperloop Technology Project Maturity Through System Dynamics: Modelling and Simulation. Economics and Business, 39, 53-68. https://doi.org/10.7250/eb-2025-0005

Authors: Aleksejs Vesjolijs | **Journal Name**: Economics and Business | **Volume, Issue and Pages**: 39, 53-68 | **Publisher**: Riga Technical University

2024

Hyperloop Decision Making Ecosystem Empowered by Ambient Artificial Intelligence

The recent shutdown of Hyperloop ONE and closure of Tesla Hyperloop subproject brought more than 1 billion EUR losses in Hyperloop industry. Hyperloop decision-making ecosystem is introduced to support stakeholder's decisions and improve the success rate of Hyperloop projects. The research provided comprehensive analysis of Hyperloop decision-making ecosystem which is empowered by Ambient AI through the lens of Ambient Intelligence. A novel, scalable, and decentralized ecosystem design is proposed, incorporating DataOps principles and data mesh architecture. The enhanced ETL model supported by Generative AI is a foundation for technical architecture. Snowflake data warehouse, Streamlit, Python programming language, ChatGPT Model 4, Microsoft PowerBI, and GitHub is part of the proposed solution. Flexible and adjustable decision-making lifecycle methodology is introduced. It is based on reframing and repurposing project goals, purpose and scope after each phase completion to enable maximum adaptivity to rapidly changing Hyperloop industry and increase project resilience. Finally, AmI value chain outlook for Hyperloop project is designed.

FTC 2024. Lecture Notes in Networks and Systems, vol 1154. Springer, Cham, pp 454–476

2024

The E(G)TL Model: A Novel Approach for Efficient Data Handling and Extraction in Multivariate Systems

This paper introduces the EGTL (extract, generate, transfer, load) model, a theoretical framework designed to enhance the traditional ETL processes by integrating a novel 'generate' step utilizing generative artificial intelligence (GenAI). This enhancement optimizes data extraction and processing, presenting a high-level solution architecture that includes innovative data storage concepts: the Fusion and Alliance stores. The Fusion store acts as a virtual space for immediate data cleaning and profiling post-extraction, facilitated by GenAI, while the Alliance store serves as a collaborative data warehouse for both business users and AI processes. EGTL was developed to facilitate advanced data handling and integration within digital ecosystems. This study defines the EGTL solution design, setting the groundwork for future practical implementations and exploring the integration of best practices from data engineering, including DataOps principles and data mesh architecture. This research underscores how EGTL can improve the data engineering pipeline, illustrating the interactions between its components. The EGTL model was tested in the prototype web-based Hyperloop Decision-Making Ecosystem with tasks ranging from data extraction to code generation. Experiments demonstrated an overall success rate of 93% across five difficulty levels. Additionally, the study highlights key risks associated with EGTL implementation and offers comprehensive mitigation strategies.

2024

Implementation Framework for Hyperloop Decision-Making Ecosystem

The Hyperloop technology is an ultra-high-speed transportation mode proposed and envisioned by Elon Musk in 2012 by reimagining vactrains. It leverages pods moving un super-sonic speed in 3-m vacuum tubes using magnetic levitation for propulsion. Technology Readiness Level is TRL 5 according to HORIZON 2020 standards. At the end of 2023, the shutdown of Hyperloop ONE, one of the largest companies in the Hyperloop industry, emphasized significant challenges in the implementation of Hyperloop technology and revealed dynamic nature of Hyperloop project. This study identifies a research gap: the absence of digital decision-making systems specifically designed for Hyperloop projects. To address this gap, the research presents a six-stage implementation framework for an Hyperloop decision-making ecosystem. The study involves the creation of a functional block diagram, the design of a technical solution blueprint, and the proposal and validation of the implementation framework using a unit testing method on an Hyperloop project case. The proposed technical solution integrates several advanced technologies, including the Snowflake data warehouse, Streamlit, Vensim, Microsoft PowerBI, GPT-4, PostgreSQL, and custom Python applications. The framework's validation process involved iterative testing and refinement, resulting in an increase in the project maturity model from the level 'Defined' to the 'Capable'.

2024

Overview of Factors and Methods for Analysis of Hyperloop Project

Hyperloop project is ultra-high speed transportation mode, that is envisioned in 2012 by Elon Musk. Goal of the current paper to evaluate and compare different factors, methods and innovations that have the potential to significantly impact the Hyperloop project implementation during phase of initial planning from the social, technical, economic and environmental perspectives. The following factors are covered by the research: technical feasibility, quantum factor, safety regulatory approval, social acceptance, reliability scalability, environmental sustainability, infrastructure integration, usability. Research outcomes are presented in a form of overview. The overview could be useful as an aid to decision makers such as regional and national governments, commercial transport policymakers or investors for any Hyperloop transport projects. Comparative analysis matrix is designed providing systematic view of factors and methods in evaluation of Hyperloop project.

Vesjolijs A., RelStat 2023: Reliability and Statistics in Transportation and Communication

2023

State-of-the-art on Hyperloop technology

How to evaluate the impact and mitigate risks of Hyperloop implementation? How will technology change the Transport and Logistics industry? The goal of this research is to identify the theoretical foundation for discussion on Hyperloop technology implementation assessment methodology, define the relevance of the research question and limitations.

2022

Ec-Funded Projects' Lessons Learned In Earth Friendly Freight Transportation

2022
A Modelling System for Evaluating Options for Building and Using a Fleet of Battery Electric Trucks.

PROJECTS

Projects

1. Accenture-TSI Hyperloop Baltics Community 2023
2. Eiropas Jaunatnes Tīkls - EUNetwork.lv - platform for blogers 2015-2022
3. Young Leadership courses 2016
4. Journalism courses 2014-2016
5. Online event system management development
6. U.S. Presidential elections 2012 analytics (12/2018 – 01/2019). Small Data science project on analytics of different aspects of U.S. Presidential elections, based on real data. Technologies & tools: Python, NumPY, matplotlib, Seaborn, Pandas, Plotly, Jupyter
7. Titanic project (10/2018 – 11/2018). Small Data science project on analytics of Titanic passenger's data from Kaggle. Technologies: Python, NumPY, matplotlib, Seaborn, Pandas, Plotly, Jupyter
8. UN World statistics (01/2019 – 02/2019). Small Data science project on analytics of various 2018 real world data from UN. Technologies: Python, NumPY, matplotlib, Seaborn, Pandas, Plotly, Jupyter
9. Organiser of TechRiga2018 Startup Hackathon
10. Organiser & moderator of the various Festival Lampa event

HONOURS AND AWARDS

01/09/2020
AI Global Hackathon Q3 Winner – Accenture

Winner of the AI Global Hackathon Q3, as part of Accenture Latvia team.

WORK-RELATED-SKILLS

IT skills

Programming:
- Scala (advanced)
- Apache Spark (advanced)
- python (advanced)
- pyspark (intermediate)
- AWS cloud service (intermediate)
- Docker (intermediate)
- Snowflake (intermediate)
- bash scripting (intermediate)
- Quiskit (junior)
- Apache NiFi (junior)
- Scoope (junior)
- Kafka (junior)
- Microsoft Azure cloud service (beginner)
- django/python (beginner)
- react/JS (beginner)
- JS (beginner)
- Delphi IDE (beginner)
- Pascal OOP (beginner)
- advanced server administration skills

Web-development:
- HTML 5 (master)
- Web development frameworks (master)
- Bootstrap (master)
- PHP (advanced)
- JavaScript (advanced)
- css (advanced)
- scss (intermediate)

Python data science libraries:
- NumPY

- matplotlib
- Seaborn
- Pandas
- Plotly
- TensorFlow
- SciKit Learn
- Theano
- Keras
- PyTorch

OTHER SKILLS

Other skills

1. Reading: passionate reader
2. Problem solving
3. Wildtourism
4. Mentoring
5. Decision-making
6. Critical thinking

COURSES

Various courses

1. Skillsoft Track 1: Advanced Docker Principles / 21 February 2024 / 6 hours
2. Snowflake Hands On Essentials - Data Warehouse / 13 February 2023 / 8 hours
3. x86 Assembler language from ground up May 16 - May 17 2020 / 16,5 hours
4. Scala and functional programming for beginners May 01 - May 17 2020 / 15,5 hours
5. Accenture Big Data Bootcamp Feb 18 - Mar 08 2019
6. Python for Data Science and Machine Learning Bootcamp / 22.5 hours / 25 Jan 2019
7. Django 2.1 & Python | The Ultimate Web Development Bootcamp / 10 hours / 12 Nov 2018
8. The Ultimate Beginner's Guide to Django 1.11 / 9 hours / 30 Oct 2018
9. Learning Python for Data Analysis and Visualization / 19 hours / 22 Oct 2018
10. Complete Python Bootcamp: Go from zero to hero in Python 3 / 24 hours / 15 Oct 2018
11. Python for Computer Vision with OpenCV and Deep Learning / 14 hours / 11 July 2018

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

- Good communication skills acquired while working as a journalist
- Public speaking is one of my strongest parts - I took part even in the TV debates
- I love to speak various languages, especially in English, writing articles and publications
- Successfully completed the leader training and now use the experience to train young people.

ORGANISATIONAL SKILLS

Organisation skills

- Event management advanced organisation skills
- Leadership skills
- Teambuilding skills
- Advanced Communication
- Agile, fast learning
- Thinking approach
- Responsibility

CONFERENCES, SEMINARS, WORKSHOPS

03/2025

7th International Economic Forum 2025 at Latvian Academy of Science

Location: Riga, Latvia. Report and abstract: “Taxonomy of Socio-Economic Impacts of Hyperloop Technology on Rural Development”

02/2025

83rd International Scientific Conference of the University of Latvia, 2025

Location: Riga, Latvia. Report and abstract: “Realtime data-driven decision-making methodology for Hyperloop technology project maturity level evaluation”

10/2024

Future Tech Conference 2024

Location: London, United Kingdom. Contribution: "Hyperloop Decision-Making Ecosystem Empowered by Ambient Artificial Intelligence"

11/2024

TSI PhD Workshop, November 2024

Location: Riga, Latvia. Contribution: presentation of Hyperloop Decision-support system

11/2024

Accenture EGTL PhD Workshop 2024

Location: Riga, Latvia. Contribution: EGTL model is presented to industry and validated

05/2024

International Conference on Reliability and Statistics in Transportation and Communication 2024

Contribution: "Hyperloop Routes Optimization Considering Barren Soil, Case of Latvia"

10/2024

Swiftube Workshop, October 2024

Location: Suffolk, Virginia, USA (Online). Contribution: Hyperloop decision-making ecosystem is presented to industry and validated

10/2024

Riga Technical University 65th International Scientific Conference 2024 (SCEE'2024)

Location: Riga, Latvia. Contribution: Presented final chapter of dissertation on "Evaluation of Hyperloop Technology Project Maturity Through System Dynamics: Modelling and Simulation."

09/2024

PhD Workshop with PQShield.

Location: London, England - Riga, Latvia (Online). Contribution: validation of EGTL model

10/2024

TSI PhD seminar, October 2024

Location: Riga, Latvia. Contribution: Results of PhD dissertation are presented

06/2024

Digital Baltic & Information Systems 2024

Location: Vilnius, Lithuania. Contribution: "Implementation Framework for Hyperloop Decision-Making Ecosystem"

06/2024

The Economist QC Annual Summit 2024

Location: London, United Kingdom. Contribution: Quantum computing algorithms and post-quantum cryptography framework for Hyperloop technology projects

02/2024

Institute of Hyperloop Technologies Workshop 2024

Location: Emden/Leer University, Germany (Online). Topic: "Advanced Decision-Making in Hyperloop Project Development." Contribution: Hyperloop decision-making lifecycle is presented and approbated

11/2023
European Big Data Conference 2023

Contribution: "Overview of Factors and Methods for Analysis of Hyperloop Project"

05/2023
Reliability and Statistics in Transportation and Communication 2023

Contribution: "Overview of Factors and Methods for Analysis of Hyperloop Project"

06/2023
Hyperloop Conference 2023 Busan

Locations: Busan, Korea. Contribution: Policy development for Hyperloop technology implementation

09/2023
Hyperloop Conference 2023 Gdansk

Locations: Gdansk, Poland. Contribution: Presented Hyperloop project costs calculator as part of Hyperloop decision-making ecosystem

07/2023
European Hyperloop Week 2023

Location: Edinburgh, Scotland. Contribution: Hyperloop technology socio-economic impacts evaluation

05/2023
The Economist QC Annual Summit 2023

Location: London, United Kingdom. Contribution: Evaluation of quantum computing application for Hyperloop technology

05/2023
The 3rd International Conference on Urban Transit and Sustainable Development 2023

Malta, 30.05.2023-02.06.2023. Presentation and report “Criteria for Hyperloop technology successful implementation”

05/2023
The International Awards for Livable Communities LivCom SDG Awards, 2023

Malta, 30.05.2023-02.06.2023. Plenary sessions participation for SDG Awards

05/2023
Young Researchers Seminar – ECTRI 2023

Location: Lisbon, Portugal. Contribution: Completed "State-of-the-Art on Hyperloop Technology" abstract, research and presentation