



Program of The 38th Conference of Open Innovations Association FRUCT

Helsinki, Finland
5 - 7 November 2025



**GAUDEAMUS IGITUR,
JUVENES DUM SUMUS!
POST JUCUNDAM JUVENTUTEM,
POST MOLESTAM SENECTUTEM
NOS HABEBIT HUMUS.**

**UBI SUNT, QUI ANTE NOS
IN MUNDO FUERE?
VADITE AD SUPEROS,
TRANSITE AD INFEROS,
UBI JAM FUERE.**

**VITA NOSTRA BREVIS EST,
BREVI FINIETUR,
VENIT MORS VELOCITER,
RAPIT NOS ATROCITER,
NEMINI PARCETUR.**

**VIVAT ACADEMIA,
VIVANT PROFESSORES!
VIVAT MEMBRUM QUODLIBET,
VIVANT MEMBRA QUÆLIBET!
SEMPER SINT IN FLORE!**

**VIVANT OMNES VIRGINES
FACILES, FORMOSÆ!
VIVANT ET MULIERES,
TENERÆ, AMABILES,
BONÆ, LABORIOSÆ!**

**VIVAT ET RESPUBLICA,
ET QUI ILLAM REGIT!
VIVAT NOSTRA CIVITAS,
MÆCENATUM CARITAS,
QUÆ NOS HIC PROTEGIT**

**PEREAT TRISTITIA,
PEREANT DOLORES,
PEREAT DIABOLUS,
QUIVIS ANTIBURSCHIUS,
ATQUE IRRISORES**

Practical Information

All FRUCT38 presentations are pre-recorded by the authors and uploaded to Youtube. The conference program contains links to individual presentations and playlists of all talks for each session. All conference sessions consist of two modules:

- 1) **Self-watching of the presentations on Youtube.** You are welcome to use the advantages of online participation and freely manage your time. You can ask questions in the comments of the videos. Please subscribe to the FRUCT youtube channel as it will help us to organize video streaming in the future.
- 2) **Please join the Questions and Answers (Q&A) in MS Teams.** You can use MS Teams either locally installed or web version. Please use the corresponding Teams links. Please use your real name at the registration and we will immediately approve the request to connect. Please, make sure to mute your microphone. If you have any questions, please click on a button with the hand (Raise hand button), so the chairman can easily manage the session. We recommend joining a Teams session in audio mode (without video). Please prepare your questions/comments to the authors and use this time to discuss the presented works.

The conference time is Finnish winter time EET (UTC+2). The MS Teams links are published in the conference program. You are welcome to watch video presentations in advance. Please note that all online presentations will be available starting on Monday, November 3, 2025. If you have any further questions don't hesitate to email us at info@fruct.org.

Authors of the selected conference papers get an invitation to publish an extended version of the paper in our partner journals. If you are interested in this opportunity, please express it clearly to the chair of your session. The list of partner journals is as follows:



Authors of the best papers of the FRUCT conference can get invitation to publish an extended version of the paper in the Computers journal (2073-431X) that is an open access and indexed by the ESCI (Web of Science), Scopus, DBLP, Ei Compendex, and other databases. They received the Impact Factor of 2.6 and the Citescore of 7.5, the JCR Category Rank Q2 (Computer Science, Interdisciplinary Applications). If you have difficulties to pay the publication fee, you can request for a discount.



Authors of the best papers of the FRUCT conference can get invitation to publish an extended version of the paper in the Data journal (2306-5729) that is an open access journal published by MDPI and indexed in the Emerging Sources Citation Index - ESCI (Web of Science, JIF 2.2) and Scopus (CiteScore 5.0)

The proceedings of 38th FRUCT conference are available online:

Issue 1: <https://fruct.org/publications/fruct38/>

Issue 2: <https://fruct.org/publications/acm38/>

General Facts and Statistics for the 38th FRUCT Conference:

Total submissions: **88**

Total authors: **176**

Accepted Full Papers: **40**
representing **17** countries

Acceptance rate: **45%**

Organization Committee of the 38th FRUCT conference

Conference Chair: Sergey Balandin

Publishing team leader: Tatiana Shatalova

Program Committee

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Christopher Harris	Marina Nikitina	Mark Zaslavskiy
Bogdan Iancu	Valentin Olenev	John Zhang

Program of the 38th FRUCT conference

5-7 November 2025, Helsinki, Finland

NOTE: Conference time is Finnish Winter time (UTC+2)

DATE	TIME	PROGRAM
5.11.25	11:00-11:10	Opening of the 38th FRUCT conference
	11:10-12:00	Keynote talk: Ethical AI in Database Systems: Governance Architecture for Financial Institutions, by Ohm Hareesh Kundurthy, Santander Bank USA
	12:00-13:30	Onsite/Online session: Artificial Intelligence Applications I
	13:30-14:00	Lunch break
	14:00-15:30	Onsite/Online session: Security and Privacy
	15:30-17:30	Onsite/Online session: Computer Vision, Image, Audio and Video Processing
	18:00-21:00	AI Meetup in Helsinki
6.11.25	10:00-11:45	Online session: Network Technologies
	11:45-13:00	Online session: e-Health and Wellbeing
	13:00-14:00	Lunch break
	14:00-16:00	Online session: Workshop: The 11th DataWorld
	16:00-17:30	Online session: Artificial Intelligence Applications II
7.11.25	10:00-12:00	Online session: Artificial Intelligence in Text Analysis and Generation
	12:00-13:15	Online session: Artificial Intelligence, Robotics and Automation
	13:15-14:00	Lunch break
	14:00-15:15	Online session: Innovative Applications and Designs
	15:15-15:30	Official closing of the 38th FRUCT conference

MS Teams links:

November 5, 2025 (Wednesday): https://teams.microsoft.com/l/meetup-join/19%3ameeting_OGRhZjYzYWUtZGJmZC00YmlyLTk0NGQtZmYyODU3NTU2ZWY2%40thread.v2/0?context=%7b%22Tid%22%3a%228324ff4b-14c8-4bf5-b07e-a0713179f37e%22%2c%22Oid%22%3a%224d479202-a42c-46e9-b2f3-e8b1c1583ae9%22%7d

November 6, 2025 (Thursday): https://teams.microsoft.com/l/meetup-join/19%3ameeting_YzM0NWZmMDEtOGM3ZC00YWFlLTkzNTAtM2UzMzAzOGJmODEw%40thread.v2/0?context=%7b%22Tid%22%3a%228324ff4b-14c8-4bf5-b07e-a0713179f37e%22%2c%22Oid%22%3a%224d479202-a42c-46e9-b2f3-e8b1c1583ae9%22%7d

November 7, 2025 (Friday): https://teams.microsoft.com/l/meetup-join/19%3ameeting_Zjg1MTMyYWQzZmYyODU3NTU2ZWY2%40thread.v2/0?context=%7b%22Tid%22%3a%228324ff4b-14c8-4bf5-b07e-a0713179f37e%22%2c%22Oid%22%3a%224d479202-a42c-46e9-b2f3-e8b1c1583ae9%22%7d

Thank you and we are looking forward to see you at the 39th FRUCT on April 28-30, 2026!

Program of the 38th FRUCT conference

November 5 (Wednesday), Online/Onsite participation

NOTE: Conference time is Finnish Winter time (UTC+2)

Online Session: Opening and Plenary session of the 38th FRUCT conference		Chairman: Sergey Balandin
11:00	10m	Welcome addressing and practical information for the participants of the 38th FRUCT conference , by Sergey Balandin
11:10	35m	Keynote talk: Ethical AI in Database Systems: Governance Architecture for Financial Institutions , by Ohm Hareesh Kundurthy, Santander Bank USA
11:45	10m	Keynote talk Q&A
11:55	5m	Break
Onsite/Online Session: Artificial Intelligence Application I		Chairman: Alexey Kashevnik
Playlist: https://www.youtube.com/watch?v=fHMLiPBcaZU&list=PLKIZJpg1JqdMwQyF5JVWJCpaAFoSuvT8		
12:00	50m	Domain Independent XAI for Material Science , by Ziauddin Ursani, Dmytro Antypov, Katie Atkinson, Matthew Dyer, Matthew Rosseinsky, Sven Schewe, Andrij Vasylenko Human-IoT Interaction via EEG-Based Brain-Computer Interface Using Weak AI Models , by Mohamed Gismelbari, Ilya Vixnin, Ali Alhasan, Ruslan Gataullin Zero-Shot Vehicle Model Recognition via Text-Based Retrieval-Augmented Generation , by Wei-Chia Chang, Yen-Ann Chen AI-Driven Waste Detection in Russia: Towards a National Environmental Monitoring System , by Anton Makarov Detection of Suspicious Microcalcification Clusters in Mammography: A Patch Classification Approach , by Adam Mračko, Lucia Vanovčanová, Aneta Gábrišová, Darina Narova, Ivan Cimrák
12:50	40m	Q&A for the Artificial Intelligence Applications I session
13:30	30m	Lunch break
Onsite/Online Session: Security and Privacy		Chairman: Marek Kvet
Playlist:		
14:00	50m	Quantum-Resistant Cryptographic Architecture for Secure Payments and IoT-Driven Banking Ecosystems , by Chaitanya Tumma, Supraja Ayyamgari, Rithwik Sannapu, Abhignan Srivatsava, Sribhashyam, Saicharan Kadari A Method of Cryptographically Strong Pseudorandom Sequences Generation for Forming a One-Time Pad , by Vladimir Grozov, Mikhail Budko, Alexei Guirik Enhancing Digital Payment Security: A Blockchain-Based Framework with Multi-Factor Authentication and Quantum-Resistant Cryptography , by Tushar Gupta, Rahul Azmeer, Srikanth Soma, Charan Thumma, Bhargavi Konda, Vinay Kumar Kasula Multitenant Cybersecurity Operations Center Designed as an Open Cloud Service with Machine Learning Elements , by Ivana Gabrišová, Gabriel Koman Comparative Analysis of Artificial Intelligence Models for Facial Image Modification Detection, by Diana Levshun, Dmitry Levshun
14:50	35m	Q&A for the Security and Privacy session
15:25	5m	Break
Onsite/Online Session: Computer Vision, Image, Audio and Video Processing		Chairman: Dmitry Korzun
Playlist: https://www.youtube.com/watch?v=Gb4MP4AJMHg&list=PLKIZJpg1JqdOkSMnI2q54rQ7m-LHyHndR		
15:30	75m	Lightweight ML-Based Method for Mental Fatigue Assessment Using Human Facial Video , by Batol Hamoud, Walaa Othman, Nikolay Shilov, Alexey Kashevnik An Approach to Point Cloud Model Creation Based on Knowledge Distillation from Image Networks with Multi-Scale Feature Extraction , by Aleksei Kuchkov, Alexey Kashevnik Small Object Detection for Ornithological Monitoring Tasks , by Natalia Obukhova, Alexandr Motyko,

		<p>Alexandr Pozdeev, Alexander Savelev, Pavel Baranov, Konstantin Smirnov, Dmitry Sharivzyanov, Aleksei Samarin, Egor Kotenko</p> <p>Tracking Small Objects in Global Motion Conditions for an Ornithological Monitoring System, by Natalia Obukhova, Alexandr Motyko, Alexandr Pozdeev, Alexander Savelev, Pavel Baranov, Konstantin Smirnov, Dmitry Sharivzyanov, Aleksei Samarin, Egor Kotenko</p> <p>AVQS: Advanced Video Querying System for Machine Learning Applications, by Vikas Kumar, Brendan Gignac, Abdulrauf Gidado, Naman B. Shah, Krish J. Shah</p> <p>Towards Efficient Universal Audio Analysis: A Low-Complexity Model via Synergistic Multi-Task Learning, by Maxim Surkov</p> <p>Enhancing YOLO Models for Handwritten Text Recognition, by Nikita Lomov</p> <p>Automated Immunohistochemistry Scoring: A Review of Advanced Computational Methods in Histopathology, by Dominika Petříková, Ivan Cimrák</p>
16:45	45m	Q&A for the Computer Vision, Image, Audio and Video Processing session
18:00	3h	AI Meetup in Helsinki

November 6 (Thursday), Online participation

NOTE: Conference time is Finnish Winter time (UTC+2)

Online Session: Network Technologies		Chairman: Nikolay Shilov
Playlist:		
10:00	70m	<p>Network-Aware gRPC Streaming for Edge-to-Cloud Time-Series Data Ingestion: A Multi-Objective Optimization Framework with Reinforcement Learning and Federated Intelligence, by Manas Bhole</p> <p>A Comprehensive Review on the Use of Artificial Intelligence, Internet of Things, Sensors, and Green Energy in Non-Invasive Agricultural Techniques, by Kemal Serdaroğlu, Nazlı Tokatli</p> <p>Learning at the Edge: Simulated DDoS Detection in 5G Networks, by Karim Khalil, Christian Gehrman, Lars Breum Hansen, Elham Tayebi</p> <p>An Energy and Migration-Aware VM Placement Model and Heuristics for Green Cloud Data Centers, by Okan Çandır, Ali Haydar Özer</p> <p>Blockchain-Enabled Zero Trust Architectures for Securing 6G-Connected Smart Cities, by Hani Al-Balasmeh</p> <p>Telecommunications Asset Management Models and Platforms for 5G/6G Networks, by Alexandr Goldstein</p>
11:10	30m	Q&A for the Network Technologies session
11:40	5m	Break
Online Session: e-Health and Wellbeing		Chairman: Ksenia Lagutina
Playlist:		
11:45	50m	<p>RehaSpeeder: A Gesture-Based Rehabilitation System That Supports the Free Definition of Movement Inputs for Enhanced Personalization and Motivation in Hand Therapy, by René Baranyi, Luke Nemeskeri, Selina Breuer, Christoph Aigner, Werner Hoerner, Thomas Grechenig</p> <p>Enhancing Healthcare Data Security Using PQ-ABE and Verifiable Secret Sharing Schemes, by Saicharan Kadari, Rithwik Sannapu, Charan Thumma, Bhargavi Konda, Vinay Kumar Kasula, Sarath Babu Rakki</p> <p>Machine Learning Models for the Detection of ADHD in Primary School Students in Peru, by José Vara, Djalma Diones, Lenis Wong</p> <p>Intelligent Web Application based on RF and CNN for the Multiclass Classification of Cognitive Impairment in Older Adults in Peru, by Joseph Ramirez-Sarmiento, Sara Estrada-Fernández, Willy Ugarte</p> <p>Building a Comprehensive Robust Framework for Predictive Machine Learning Models Development Using Real-World Clinical Data, by Andrey Ermak, Denis Gavrilov, Roman Novitskiy, Alexander Gusev, Anna Andreychenko</p>

12:35	25m	Q&A for the e-Health and Wellbeing session
13:00	1h	Lunch break
Online Session: The 11th DataWorld Workshop		Chairman: Michal Kvet
Playlist: https://www.youtube.com/watch?v=y2lpmzu8AI&list=PLKIZJpq1JqdPZWqWbxpnKmkhwiekQFK8t		
14:00	75m	Invited talk: Autonomous Databases in the Cloud: Enabling Self-Tuning and Self-Healing Systems , by Ganesh Nerella Database Analytics and Performance on Dataset of Global Temperature Changes (1970 – 2021) , by Michal Kvet, Tomáš Staroň Batch Updates and CDC at Scale: A Comparative Study of Iceberg and Paimon , by Kirill Ievlev, Vadim Surpin Semantic Metadata Extraction from Online News Using a Modular Media Scraper , by Richard Marko Info-Activity Method in Problem Solving , by Alexander Geyda Big Data Analytics for Predicting Policy Impacts on Religious Literacy in Secular Education Systems , by Joel Raj, Taylor Daan
15:15	40m	Q&A for the The 11th DataWorld Workshop session
15:55	5m	Break
Online Session: Artificial Intelligence Applications II		Chairman: Nikolay Teslya
Playlist:		
16:00	1h	Risk-Sensitive Microgrid Management Using Proximal Policy Optimization , by Christopher Harris Agentic AI for Real-Time, Resilient, and Adaptive Fraud Detection in Digital Payment Systems , by Supraja Ayyamgari, Chaitanya Tumma, Ravi Kiran Uba, Rithwik Sannapu, Abhignan Srivatsava, Sribhashyam Improving Lean Construction by Integrating ML for Contractor Performance Prediction , by Pedro Fonseca Ortiz, Sergei Chuprov, Juan Solis, Gael Marquez Compressing Large Language Models for SQL Injection Detection: A Case Study on Deep Seek-Coder and Meta-Llama-3-70b-instruct , by Borhanullah Hairan, Mehmet Akif Şahman Intelligent web application with computer vision algorithms for detecting flaws and damage on fabric in the textile industry, by Sebastian Gonzales-Sotomayor, Rodrigo Sabino-Valer, Willy Ugarte
17:00	30m	Q&A for the Artificial Intelligence Applications II session
17:30		Closing of the day

November 7 (Friday), Online participation

NOTE: Conference time is Finnish Winter time (UTC+2)

Online Session: Artificial Intelligence in Text Analysis and Generation		Chairman: Lidia Pivovarova
Playlist:		
10:00	75m	Parsing Bibliography Descriptions using Few-Shot Prompting with LLM , by Kenan Kassab, Nikolay Teslya Open-Source Large Language Model Frameworks for Automated Penetration Testing: Opportunities, Challenges, and Solutions , by Nikolai Eritenko, Alexander Menschikov, Danil Sviridov, Maksim Sheryagin, Sergey Sergienko CoolPrompt: Automatic Prompt Optimization Framework for Large Language Models , by Nikita Kulin, Viktor Zhuravlev, Artur Khairullin, Alena Sitkina, Sergey Muravyov Describing Images: Linguistic Signatures of AI and Humans , by Tatiana Litvinova, Viktoriya Molchanova, Olga Dekhnich, Pavel Seredin Detecting Token-Level Hallucinations Using Variance Signals: A Reference-Free Approach , by Keshav Kumar Digital Guardians: Can GPT-4, Perspective API, and Moderation API Reliably Detect Hate Speech in Reader Comments of German Online Newspapers? by Manuel Weber, Moritz Huber, Maximilian Auch, Alexander Döschl, Max-Emanuel Keller, Peter Mandl

11:15	40m	<u>Q&A for the Artificial Intelligence in Text Analysis and Generation session</u>
11:55	5m	Break
Online Session: <u>Artificial Intelligence, Robotics and Automation</u>		Chairman: Alexander Smirnov
Playlist: https://www.youtube.com/watch?v=5IDhCl5EdyA&list=PLKIZJpg1JqdOLNqu-2nh6WTlemVdjLtUI		
12:00	45m	<p><u>Learning to Defer with Better Features: A Case for Going Beyond the Final Layer</u>, by Andrew Ponomarev, Anton Agafonov</p> <p><u>Explaining Takeover Requests: The Role of Hazard Type and Explanation Strategy in Conditionally Automated Driving</u>, by Subin Jeong, Yejin Kang, Myung Hwan Yun</p> <p><u>Distributed Model Predictive Control for Multi-Agent Systems: Conception and Design for Dynamic Routing Task</u>, by Fransiska Fransiska, Dennis Salzmänn, Hans D. Schotten, Fransiska Fransiska</p> <p><u>AI-Enhanced Sensor Fusion: Bridging Traditional and Neural Network Filters in Real-Time Localization</u>, by Aaryaa Shekhar Padhyegurjar, Dennis Salzmänn, Hans D. Schotten</p>
12:45	30m	<u>Q&A for the Artificial Intelligence, Robotics and Automation session</u>
13:15	45m	Lunch break
Online Session: <u>Innovative Applications and Designs</u>		Chairman: Dmitry Korzun
Playlist:		
14:00	50m	<p><u>Design and Implementation of a High Stability Laser Diode Driver and Precision TEC Controller for Tunable Diode Laser Absorption Spectroscopy</u>, by Hasan Koçer, Selman Eldem, A.Oktay Dündar</p> <p><u>Observability and AIOps in Cloud-Scale DevOps: Technologies, Architectures, Challenges, and Future Trends</u>, by Sudheer Amgothu</p> <p>Desktop Application for a Virtual Chemistry Lab with Computer Vision-based Interaction for High School Students, by Marlon Llagueto-de-la-Cruz, Juan Osorio-Quiroz, Willy Ugarte</p> <p>Modeling a Cyberimmune Architecture: The Case of Open Source Intelligence Systems, by Kirill Ivashnev, Dmitry Korzun</p>
14:50	25m	<u>Q&A for the Innovative Applications and Designs session</u>
15:15	15m	<u>Official closing of the 38th FRUCT conference</u>



FOR NOTES



The 38th Conference of Open Innovations Association FRUCT

Program

Helsinki, Finland
5 - 7 November 2025

A special word of thanks goes to the
*IEEE Communications Society, the Computers MDPI journal, and
the Data MDPI journal for sponsoring the conference.*

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CALL FOR PARTICIPATION

The 39th Conference of Open Innovations Association FRUCT

28 - 30 April 2026



Overview

FRUCT conference is a high-quality scientific event for meeting academia and business people and setting projects. The average conference is attended by 150+ participants from academia and industry. The average **acceptance rate is below 40%**. Traditionally the conference attracts most active and talented students to present their R&D projects, meet interesting colleagues, create new teams, and find employers and investors. The conference invites the world-class academic and industrial experts to lecture on the hottest topics. We welcome submitting papers and take part in the conference, present your research results. The FRUCT conference sessions are accessible online plus we organize an onsite meet-up.

The conference offers low registration fee. FRUCT doesn't offer deadline extension, but **we offer the Early-bird submission** with the additional review cycle. For further details please refer to <http://www.fruct.org/cfp39>.

List of conference topics

- ✓ Artificial Intelligence in Text Analysis and Generation
- ✓ Artificial Intelligence, Robotics and Automation
- ✓ Big Data, Knowledge Management, Data Mining Systems
- ✓ Cloud, Fog and Edge Computing and Engineering, HPC
- ✓ Coding Theory, DevOps and DevSecOps Technologies
- ✓ Commercialization of Technologies and Digital Economy
- ✓ Emerging Wireless Technologies, 5G and beyond
- ✓ Gamification, E-learning and Smart Data in Education
- ✓ Internet of Things: Apps and Enabling Technologies
- ✓ Location Based Services: Navigation, Logistics, Tourism
- ✓ Natural Language Processing and Speech Technologies
- ✓ Predictive Analytics, Probability and Statistics
- ✓ Wearable Electronics: Novel Architectures and Solutions
- ✓ Algorithms and Modeling
- ✓ Artificial Intelligence Applications
- ✓ Audio Pattern Recognition, Semantic Audio
- ✓ Blockchain Technology and Applications
- ✓ Computer Vision, Image & Video Processing
- ✓ Crowdsourcing and Collective Intelligence
- ✓ e-Health and Wellbeing
- ✓ Intelligence, Social Mining and Web
- ✓ Networks and Applications
- ✓ Security and Privacy
- ✓ Smart Systems and Embedded Networks
- ✓ Software Design, Innovative Applications
- ✓ Workshop: The DataWorld

Call for papers

Depending on the type and maturity level please submit your work into one of the following 3 categories:

1. **Full paper** (min 6 full pages, max 12 pages) OR 2. **Short paper** (min 2 pages, max 6 pages)

Submission deadline: 2 March 2026

Early-bird deadline: 2 February 2026

Notification of acceptance: **27 March 2026**

Camera-ready deadline: **3 April 2026**

3. **Poster / Demo proposal**: submission deadline: **17 April 2026**

Publication

All submitted Full Papers will be peer reviewed by the technical committee. Accepted Full papers and extended abstracts are published in the proceeding of FRUCT conference (ISSN 2305-7254). The accepted Full Papers will be included to **IEEE Xplore (application is pending)**, indexed by **Scopus, ACM, Web of Science, RSCI (VAK list), DBLP**, etc. The conference proceedings are included in **AMiner, CORE, and Scimago Journal Rank (SJR)** <http://scimagojr.com/journalsearch.php?q=21100305223&tip=sid>. The selected papers get invitations to publish extended versions of the papers in the partner journals, e.g., **IJERTCS**. FRUCT is **rated by many national systems**, e.g., **Finnish (JUFO=1, ID: 72707), Norwegian (NSD=1), Danish (BFI=1, ID: 8782540)**.

Contacts

Paper templates, conference news and other relevant details are available at <http://www.fruct.org/conference39>. If you get some questions that are not covered at the conference web page, feel free to send email to info@fruct.org.