

Program of

The 37th Conference of Open Innovations Association FRUCT

Helsinki, Finland

14 - 16 May 2025

IEEE

IEEE ComSoc
IEEE Communications Society

big data and cognitive computing

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 QUAELIBET!
SEMPER SINT IN FLORE!

VIVANT OMNES VIRGINES
FACILES, FORMOSAE!
VIVANT ET MULIERES,
TENERAE, AMABILES,
BONAE, LABORIOSAE!

VIVAT ET RESPUBLICA,
ET QUI ILLAM REGIT!
VIVAT NOSTRA CIVITAS,
MAECENATUM CARITAS,
QUAE NOS HIC PROTEGIT

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

Practical Information

All FRUCT37 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 time EEST (UTC+3). 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, May 12, 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:

big data and cognitive computing

Authors of the best papers of the FRUCT conference can get invitation to publish an extended version of the paper in the Big Data and Cognitive Computing journal that is indexed by the ESCI (Web of Science), Scopus, Ei Compendex, etc. (Impact Factor 3.7, Citescore 7.1, SJR 2024 rank is Q1, and H-index: 44) with 20% discount (or even more in special cases).

An official publication of the Information Resources Management Association

IGI Publishing www.igi-global.com

INTERNATIONAL JOURNAL OF Embedded and Real-Time Communication Systems

Authors of the best papers of the FRUCT conference can get invitation to publish an extended version of the paper in the International Journal of Embedded and Real-Time Communication Systems (IJERTCS) (ISSN 1947-3176, **Scopus** indexing, etc.)

The proceedings of 37th FRUCT conference are available online:
Issue 1: https://fruct.org/publications/fruct37/
Issue 2: https://fruct.org/publications/acm37/

General Facts and Statistics for the 37th FRUCT Conference:

Total submissions: **97**
Accepted Full Papers: **41**
Acceptance rate: **42%**
Total authors: **141**
representing **15** countries

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Publishing team leader: Tatiana Shatalova

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Program of the 37th FRUCT conference

14-16 May 2025, Helsinki, Finland

NOTE: Conference time is Finnish time (UTC+3)

DATE	TIME	PROGRAM
14.05.25	11:00-11:05	**Opening of the 37th FRUCT conference**
	11:05-12:00	**Keynote talk:** Minimal Data, Maximum Trust: Secure Archiving of e-Signatures, by Eduard Baraniak, Brain:IT
	12:00-13:30	Online session: Workshop: The 10th DataWorld
	13:30-14:15	**Lunch break**
	14:15-14:45	Invited talk: Data Engineering with AI/ML Automation, by Srinivas Murri
	14:45-16:00	Online session: Artificial Intelligence Applications I
	16:00-17:00	Onsite/Online session: Machine Learning Applications
	17:30-21:00	AI/ML Meetup in Helsinki downtown
15.05.25	10:00-11:00	Online session: Innovative Applications, Software and Service Design
	11:00-12:00	Online session: Artificial Intelligence Applications II
	12:00-13:00	Online session: Artificial Intelligence in Text Analysis and Generation
	13:00-14:00	**Lunch break**
	14:00-15:15	Online session: Natural Language Processing
	15:15-16:15	Online session: Networks and Applications
	16:15-17:30	Online session: Security and Privacy
16.05.25	10:00-12:00	Online session: Algorithms and Modeling
	12:00-13:15	Online session: Blockchain Technology and Applications
	13:15-13:30	**Official closing of the 37th FRUCT conference**

MS Teams links:

May 14, 2025 (Wednesday): https://teams.microsoft.com/l/meetup-join/19%3ameeting_N2M1MjVlOGUtMjI0Yi00MzlhLThjZjUtMmNhZDZhODVjZjQ0%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

May 15, 2025 (Thursday): https://teams.microsoft.com/l/meetup-join/19%3ameeting_NjcyOWU4ZWUtMWJlZi00ZGYyLThmZWYtMmMzZmZmNGZjZWMz%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

May 16, 2025 (Friday): https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZmZkZjNiODMtYjE2Ni00ZWFkLTg3NDMtNWI4NzA5NzkyMTdi%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 38th FRUCT on November 5-7, 2025!

Program of the 37th FRUCT conference

May 14 (Wednesday), Online/Onsite participation

NOTE: Conference time is Finnish time (UTC+3)

Online Session: Opening and Plenary session of the 37th FRUCT conference		Chairman: Sergey Balandin
11:00	5m	Welcome addressing and practical information for the participants of the 37th FRUCT conference, by Sergey Balandin
11:05	40m	**Keynote talk: Minimal Data, Maximum Trust: Secure Archiving of e-Signatures**, by Eduard Baraniak, Brain:IT
11:45	10m	Keynote talk Q&A
11:55	5m	**Break**
Online Session: Workshop: The 10th DataWorld		Chairman: Michal Kvet Playlist: https://www.youtube.com/watch?v=qHfMTkOtbcs&list=PLKlZJpq1JqdPqQADua7N9ySz1Jy907FXi&index=1
12:00	55m	Database Analytics and Performance on Data From Telecom Customer Service, by Michal Kvet, Janka Šepetková, Rebeka Panáková Effect of JOIN Type on Query Performance, by Andrea Meleková Artist's ordering system, by Marek Kvet Object Type-based Data Description by Aggregation for Graph Databases, by Adam Kleinedler (Matej Bel University), Adam Dudáš Teaching Process and Student Result Analysis – Case Study, by Michal Kvet
12:55	35m	**Q&A for the Workshop: The 10th DataWorld session**
13:30	45m	**Lunch break**
14:15	20m	Invited talk: Data Engineering with AI/ML Automation, by Srinivas Murri, University of Washington
14:35	10m	**Invited talk Q&A**
Online Session: Artificial Intelligence Applications I		Chairman: Alexey Kashevnik Playlist: https://www.youtube.com/watch?v=oJ2_HYCn7vU&list=PLKlZJpq1JqdN1dm99b49R3Wk2-LOrt1m2
14:45	45m	Generative Adversarial Neural Networks For Random and Complex Chord Progression Generation, by Alexander Melendez-Rios, Roberto Vega-Berrocal, Willy Ugarte Transformer-Based Multimodal Framework for Music Similarity Analysis and Recommendation Systems, by Mikhail Rumiantcev Improving Radiological Interpretation through Optimization of Radiographs using Vision Transformers, by Luis Arroyo-Bonifaz, Cesar Osorio-Guerra, Willy Ugarte Early Detection of Malicious Activity in Log Event Sequences using Deep Learning, by Andrej Ralbovský, Ivan Kotuliak
15:30	25m	**Q&A for the Artificial Intelligence Applications I session**
15:55	5m	**Break**
Onsite/Online Session: Machine Learning Applications		Chairman: Alexander Smirnov Playlist: https://www.youtube.com/watch?v=jkK33LK7_5I&list=PLKlZJpq1JqdMwp6DeQp5FRvIlIlr58UXO
16:00	35m	EEG Headband-Based Emotion Valence Prediction Approach: CNN Model and Evaluation, by Vladimir Romaniuk, Alexey Kashevnik Dynamic Data Linkage Keys Generation Technology for Process Flow Data Analysis using User's Criteria, by Amit Kumar Analysis of Computer Vision-Based Physiological Indicators for Operator Fatigue Detection, by Batol Hamoud, Walaa Othman, Nikolay Shilov, Alexey Kashevnik
16:35	25m	**Q&A for the Machine Learning Applications session**
17:30	3.5h	**AI/ML Meetup in Helsinki downtown**

May 15 (Thursday), Online participation

NOTE: Conference time is Finnish time (UTC+3)

Online Session: Innovative Applications, Software and Service Design		Chairman: Dmitry Korzun Playlist: https://www.youtube.com/watch?v=PtcKlRqJV1Y&list=PLKlZJpq1JqdM96L3eBo_3iW5TjmdiT4Ta
10:00	25m	Specialized Image Descriptors Adaptation for Generated Images Recognition, by Aleksei Samarin, Aleksei Toropov, Egor Kotenko, Artem Nazarenko, Elena Mikhailova, Valentin Malykh, Alexander Savelev, Alexander Motyko The PYSATL Experiment Framework, by Alexey Mironov Lightweight Image Pre-processing Model for Improving Segmentation of Infrared Human Eye Images, by Aleksei Samarin, Aleksei Toropov, Egor Kotenko, Artem Nazarenko, Elena Mikhailova, Valentin Malykh, Alexander Savelev, Alexander Motyko
10:25	30m	**Q&A for the Innovative Applications, Software and Service Design session**
10:55	5m	**Break**
Online Session: Artificial Intelligence Applications II		Chairman: Nikolay Teslya Playlist: https://www.youtube.com/watch?v=DJGnBbwTu2A&list=PLKlZJpq1JqdMpy0-YgkhEIIOp9fGk7pe2
11:00	25m	Machine Learning Model of Seasonal Autoregressive Integrated Moving Average with Exogenous Variables for Logistics, by Sergei Ivanov, Tatiana Zudilova, Nikita Osipov, Irina Osetrova, Igor Anantchenko, Lubov Ivanova Intelligent Vehicle Maneuver Detection Based on Synthetic Gyroscope Data Calculated from GPS, by Varvara Shushkova, Alexey Kashevnik, Andrey Stankevich, Nikolai Andreev, Dmitry Zubok, Svyatoslav Shtumpf Intelligent Method for Human Concentration Recognition Based on EEG Sensor Data, by Eduard Glekler, Alexey Kashevnik, Andrey Stankevich
11:25	30m	**Q&A for the Artificial Intelligence Applications II session**
11:55	5m	**Break**
Online Session: Artificial Intelligence in Text Analysis and Generation		Chairman: Lidia Pivovarova Playlist: https://www.youtube.com/watch?v=IUm-nBDeHaA&list=PLKlZJpq1JqdP3k-fUKrZsl9ufPtr_CAu3
12:00	30m	Structure Extractor: Multilingual Extraction of Sections from Scientific Document, by Ilia Kopanichuk, Artem Chashchin, Inga Ochneva, Andrey Grabovoy, Aleksandr Ogaltsov, Aleksandr Kildyakov, Yury Chekhovich Development of a Benchmark for Assessing the Quality of Language Models in Russian, by Muslimbek Abdurakhimov, Maria Khodorchenko Data Pseudonymization in the Generative Artificial Intelligence Environment, by Jaroslava Kniežová, Patrik Hrkut, Emil Kršák
12:30	30m	**Q&A for the Artificial Intelligence in Text Analysis and Generation session**
13:00	1h	**Lunch break**
Online Session: Natural Language Processing		Chairman: Ksenia Lagutina Playlist: https://www.youtube.com/watch?v=6m1XiK8nAQ8&list=PLKlZJpq1JqdPUcJzrbdhw5AQiZ7-2c1Kh
14:00	45m	Memory-Efficient Sound Event Detection using Multi-Head Gated Recurrent Unit, by Maxim Surkov A Spatial Spectral Mask for Dual - Microphone Systems, by Trong The Quan, Trang Ninh Thi Thu Ghosts in the Markup: Techniques to Fight Large Language Model-Powered Web Scrapers, by William Brach, Matej Petrik, Kristian Kostal, Michal Ries Novel Approaches to Content Management System (CMS): Design and Development of an Android Application for Scientific Spiritualism (poster), by Ranita Ganguly, Srinivasa Rao Bittla, Priyam Ganguly
14:45	25m	**Q&A for the Natural Language Processing session**
15:10	5m	**Break**
Online Session: Networks and Applications		Chairman: Nikolay Shilov Playlist: https://www.youtube.com/watch?v=3iqqI9gaOIY&list=PLKlZJpq1JqdO5r-oq9zOmLTSQjd-zSu0k
15:15	35m	Load Balancer Filter-Based Approach To Enable Distributed API Rate Limiting, by Adeesha Wijayasiri, Thivaharan Kalyanasundaram, Kobinarth Panchalingam, Tharsigan Jegatheesan, Srinath Perera Network Recovery Optimization in SDN, by Slavomír Tatarka, Jozef Papan, Dominik Škvarna, Ivana Bridová

		Efficient GPU Resource Pooling for Machine Learning Workloads, by Adeesha Wijayasiri, Adeesha Jayasinghe, Kavindu Janith, Ravindu Wickramage
15:50	20m	**Q&A for the Networks and Applications session**
16:10	5m	**Break**
Online Session: Security and Privacy Chairman: Jozef Papán Playlist: https://www.youtube.com/watch?v=SNYbeu45D6M&list=PLKlZJpq1JqdOli-VgDVA0tUiBLXi16D9u		
16:15	50m	Enhanced Cybersecurity Entity Recognition Using DeBERTa, Transformer-CNN Hybrids, and BiLSTM-Softmax, by Akhila Reddy Yadulla, Vinay Kumar Kasula, Mounica Yenugula, Bhargavi Konda Enhancing Hyperledger Fabric Security with Lightweight Post-Quantum Cryptography and National Cryptographic Algorithms, by Akhila Reddy Yadulla, Vinay Kumar Kasula, Mounica Yenugula, Bhargavi Konda Design of Almostperfectly Secure Stegosystems for Video Files, by Valery Korzhik, Ekaterina Gerling, Aleksei Zhuvikin Lightweight Neural Network for Adversarial Defense: A Novel NTK-Guided Pruning Approach, by Akhila Reddy Yadulla, Vinay Kumar Kasula, Mounica Yenugula, Bhargavi Konda
17:05	25m	**Q&A for the Security and Privacy session**
17:30		**Closing of the day**

May 16 (Friday), Online participation
NOTE: Conference time is Finnish time (UTC+3)

Online Session: Algorithms and Modeling Chairman: Dmitry Korzun Playlist: https://www.youtube.com/watch?v=Fst8JoQBiEM&list=PLKlZJpq1JqdMc3KLd-TEBYwkNJTFAODGH		
10:00	1h	Methods of Decision Making and Fuzzy Sets in the Selection of the Optimal Location for a Metro Station, by Alexandra Ponomareva Methods for Solving the Linear Cutting Stock Problem on Several Slitting Machines with Minimizing the Number of Waste and Knives Changes, by Vladislav Klimenko, Liudmila Shchegoleva Imbalanced Learning Ensemble Optimization, by Maksim Aliev, Sergey Muravyov L-Moments Method: Introducing Novel Approach of Mixture Parameters Estimation and Its Implementation in Python Library Pysatl-Mpest, by Danil Totmyanin, Viacheslav Gorikhovskii ChunkFS: A Tool for Data Deduplication Methods Comparison, by Oleg Piletskii, Viacheslav Gorikhovskii Classification-Based Barrier Change Point Detection Methods, by Artemii Patov, Viacheslav Gorikhovskii, Vladimir Kutuev Development and Operations Modeling as Information Application in Cause-and-Effect Relations Chains, by Alexander Geyda
11:00	50m	**Q&A for the Algorithms and Modeling session**
11:50	10m	**Break**
Online Session: Blockchain Technology and Applications Chairman: Marek Kvet Playlist: https://www.youtube.com/watch?v=8MRDsbG6Lbk&list=PLKlZJpq1JqdOOHDZiSP3BiAz21xDZ_fzK		
12:00	45m	Detecting and Predicting Changes in Crypto Markets, by Dušan Morháč, Kristián Košťál, Peter Kolek, Jakub Horvat, Erik Matovič, Viliam Jusko, Šimon Drienik, Martin Bačovský Exploring Hyperledger Sawtooth: Model Checking Proof-of-Elapsed Time Algorithm and Testing Methods for Enterprise Blockchain Applications, by Sergey Staroletov Building Interoperability: A Decentralized Bridge Connecting Polkadot and Cosmos Ecosystems, by Dušan Morháč, Kristián Košťál, Juraj Mečír University Students' Perceptions of the Potential of a Metaverse-Based Virtual Learning Environment: An Exploratory Case Study, by Juho Mattila, Sami Pohjolainen, Ruut Tikkanen, Joona Kauranen, Iikka Paajala, Pasi Karppinen
12:45	30m	**Q&A for the Blockchain Technology and Applications session**
13:15	15m	**Official closing of the 37th FRUCT conference**


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FRUCT

FOR NOTES

The 37th Conference of Open Innovations Association FRUCT

Program

Helsinki, Finland
14 - 16 May 2025

A special word of thanks goes to the

IEEE Communications Society and the Big Data and Cognitive Computing MDPI journal for sponsoring the conference.

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Number of copies 200

CALL FOR PARTICIPATION
The 38th Conference of Open Innovations Association FRUCT
5-7 November 2025

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/cfp38.

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: 8 September 2025 **Early-bird deadline: 11 August 2025**

Notification of acceptance: **3 October 2025** Camera-ready deadline: **10 October 2025**

3. **Poster / Demo proposal:** submission deadline: **20 October 2025**

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/conference38. If you get some questions that are not covered at the conference web page, feel free to send email to info@fruct.org.