

# Conference Schedule

**Timing:** Tbilisi local time (GMT+4)

**Venue:** Muskhelishvili Institute of Computational Mathematics (MICM) of the Georgian Technical University (GTU) - Conference Hall, 1st floor

**Address:** 4 Grigol Peradze street, 0159, Tbilisi, Georgia

## 16 September

**10:00 - 11:00 Registration**

**11:00 Welcome**

**11:15 Key-note Lecture: François Brémont**, Action Recognition for People Monitoring

### 12:00 Doctoral Symposium

**12:00 Davit Bitmalkishev** Design and Training of a Georgian Vision-to-Text Model Using ViT and ByT5.

**12:30 Coffee Break**

**13:00 Levan Tsinadze**, Lattice-Theoretic Formal Concepts for Sparse Autoencoder and Transcoder Feature Analysis in Large Language Models

**13:30 Grigol Mikadze**, AI-Augmented Privacy Architecture in Digital Access Control Systems: A Secure and Adaptive Design Approach

**14:00 Irakli Koberidze**, Auditing for Bias in Public Health Communications using Large Language Models as Explainable AI Tools

**14:30 Lunch Break**

**15:30 Luka Nadiradze**, Visual and Auditory Cue Modality Comparison in Spatial Short-Term Memory

**16:00 Beso Mikaberidze**, Parameter-Efficient Transfer Learning for Low-Resource NLP: Towards Advancing Georgian Language Processing

**16:30 Irakly Parshutkini**, Discrimination q-Rung Picture Linguistic Information TOPSIS Approach in Educational Programs Efficiency Evaluation

**17:00 Ketevan Sikharulidze**, Collaborative Filtering and TOPSIS Based Talent Scout Recommendation System

**17:30 End of the sessions**

**19:00 Gala Dinner**

## 17 September

**10:00 - 20:00 Social Event - Excursion outside Tbilisi**

- Uplistsikhe
- Ateni Sioni Church

- Dinner in Ateni at Nika Vacheishvili's Marani<sup>1</sup> and Guest House

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<sup>1</sup>Wine cellar

## 18 September

**10:30 Key-note Lecture:** Philipp Müller, Multi-modal Behaviour Analysis for Effective Human-machine Collaboration

**11:15 Key-note Lecture:** Samir Rustamov, AI Listens, Learns, and Responds: Speech Technologies at the Forefront

**12:00 Key-note Lecture:** Hrachya Astsatryan, High-Performance Artificial Intelligence: Bridging Advanced Computing and AI

**12:45 Coffee Break**

**13:15 Key-note Lecture:** Abzatdin Adamov, The Limits of Intelligence in Modern AI: Engineering Consciousness and Awareness for Human-Like Cognition

**14:00 Track A. Natural Language Processing for Low-resourced Languages**

**14:00** Archil Elizbarashvili, D. Gross-amblard, M. Tsintsadze, M. Ducassé, M. Khachidze, Crowdsourcing as a Complement to Machine Learning for Validating Lexical Data on Georgian Verbs.

**14:20** Ali Parsayan, Mariam Razmadze, Next Word Prediction in the Georgian Language: Challenges and Neural Approaches

**14:40** Rapael Kalandadze, RAFT for Georgian: A High-Quality Corpus for RAG, Fine-Tuning, and Benchmarking in a Low-Resource Language

**15:00** Merium Hazem Anwar Labib Bishara, Lia Kurtanidze, Mikheil Rukhaia, Lali Tibua, Large Unranked Probabilistic Logic and its Applications

**15:20 Lunch Break**

**16:20 Track B. Computer Vision for Perception, Interaction & Intelligent Systems**

**16:20** Zaza Tabagari, Zaza Sanikidze, Giorgi Giorgobiani, The Use of Poisson's Equation and Image Processing Methods in Computer Vision Tasks

**16:40** Tereza Azatyan, Tigran Vandunts, Innovative Approaches to the Use of Computer Vision and Multimodal Systems in Assistive Technologies

**17:00** Hakob Tamazyan, Ani Vanyan, Alvard Barseghyan, Anna Khosrovyan, Evan Shelhamer, Hrant Khachatrian, Large GeoCrossBench: Cross-Band Generalization for Remote Sensing

**17:20** Ioseb Kachiashvili, Luka Tabagari, Human Detection from Body Movements Using Deep Learning Techniques

**17:40** Merihan Hazem Anwar Labib Bishara, Anriette Michel Fouad Bishara, Neurosymbolic Methods in AI

**18:00** Ivan Omelchenko, Yuri Gordienko, Vladyslav Taran, Sergey Peresada, Gert Jeravan, Mairo Leier, Sergey Lyshevski, Sergii Stirenko, Modified Convolutional Architecture for Camouflaged Object Detection (*Online Presentation*)

**18:20 Closure of the conference**