

# MATHAI 2025 (ROOM 2 - CHAMONIX )

INTERNATIONAL CONFERENCE DEDICATED TO MATHEMATICS IN ARTIFICIAL INTELLIGENCE

SIRIUS INTERNATIONAL MATHEMATICAL CENTER

SOCHI, 24-28 MARCH 2025

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<p>Day of arrival, accommodation of participants</p>	<p><b>14:00pm-14:20pm</b> Dmitriy Sviridenko (online): Semantic dynamic modeling</p> <p><b>14:20pm-14:40pm</b> Vladimir Yahno (online): Semantic models of cognitive systems. Diversity of interpretations.</p> <p><b>14:40pm-15:00pm</b> Evgenii Evstafev(online): Token-by-Token Regeneration and Domain Biases: A Benchmark of LLMs on Advanced Mathematical Problem-Solving</p> <p><b>15:00pm-15:20pm</b> Segrey Petukhov (online): Genetic intelligence and tensor-unitary transformations</p> <p><b>15:20pm-15:40pm</b> Mohammad Alkousa (online): Mirror Descent Methods with Weighting Scheme for Outputs for Constrained Variational Inequality Problems</p> <p><b>15:40pm-16:00pm</b> Anton Kolonin (online): Generalized Reputation Computation Ontology and Temporal Graph Architecture</p> <p><b>16:00pm-16:20pm</b> Break</p> <p><b>16:20pm-16:40pm</b> Igor Katrichek (online): HOUND: High-Order Universal Numerical Differentiator for a Parameter-free Polynomial Online Approximation</p> <p><b>16:40pm-17:00pm</b> Anna Avdyushina(online): Application of Poisson Learning for the Classification of Solutions of Dynamical Systems</p>	<p><b>14:00pm-14:20pm</b> Dmitry Kondratyev (online) Formal verification of neural networks.</p> <p><b>14:20pm-14:40pm</b> Oleg Sokolkov (online): Model for segmentation of forest logging in northern latitudes using Sentinel-2 images based on an ensemble of multi-specialized segmenters</p> <p><b>14:40pm-15:00pm</b> Alexey Stukachev (online): Interpretability in Mathematics and XAI</p> <p><b>15:00pm-15:20pm</b> Break</p> <p><b>15:20pm-15:40pm</b> Yulia Zakharova (online): Hyperparameter tuning in metaheuristics for NP-hard combinatorial optimization problems</p> <p><b>15:40pm-16:00pm</b> Vladimir Bulygin(online): Cyberenic approach to understanding language</p> <p><b>16:00pm-16:20pm</b> Break</p> <p><b>16:20pm-16:40pm</b> Evgeniy Golikov (online): Wide neural networks: Tensor Programs, Master theorem, and critical width</p> <p><b>16:40pm-17:00pm</b> Xiangri LU (online): Position-Adaptive Optimization for Agent Confrontation Using the Game Triangle Plane Model</p> <p><b>17:00pm-17:20pm</b> Xiangri LU (online): Position Estimation of Obstacles Using Maximum Expectation Stochastic Gradient Variational Inference in Intelligent Control Game Systems</p>	<p><b>9:00pm-18:00pm</b> Day off</p>	<p><b>9:00pm-18:00pm</b> Day off</p>	<p><b>9:00pm-18:00pm</b> Day off</p>	<p><b>13:00pm-17:00pm</b> Day of departure of participants</p>