

MATHINFO CONFERENCE

8-12 September, 2025

	Monday	Tuesday	Wednesday	Thursday
8:00-9:30	Breakfast	Breakfast	Breakfast	Breakfast
9:30-10:30		Plenary: András Pataricza (Chair: Gyöngyvér Márton)	Excursion (Sovata- Corund-Odorhei- Sighișoara)	
10:00-10:30				Plenary: Mihai Oltean (Chair: Maria Csernoch)
10:30-10:45				
10:45-11:20	Registration	Session (C)		Session (E)
11:20-12:30	Opening Ceremony+ Plenary 1: Krisztian Buza (Chair: David Iclănzan) Senate Hall			
12:30-14:30	Lunch Break			
14:30-16:00	Session (A) (14:30- 16:00)	Plenary: Zoltán Gál (Chair: László Pál)		Panel Discussion: AI for Education: Friend, Foe, or Future? (Hosted by Zoltán Kátai)
16:00-16:30	Coffee Break	Coffee Break		Coffee Break
16:30-18:00	Session (B)	Session (D)		Session (F)
19:00-	Dinner	Dinner		Gala Dinner-Haller Castel, Marosugra/Ogra
	Watching Israel-Italy football game (114 room)/Board game night	Watching Hungary- Portugal football game (114 room)/ Board game night		

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Program Informatics

September 8th, Monday

8:00-9:30 Breakfast

9:30-10:30

10:45-11:20 Registration

11:20-11:30 Opening Ceremony (Csaba Farkas & Emil Horobeț)

11:30-12:20 **Plenary Talk** (Chair: David Iclănzan) - Senate Hall (2nd floor)

Krisztian Buza: Twenty Years of Time Series Classification: From Nearest Neighbors to
ROCKETs and Beyond

12:20-12:30 Discussion

12:30-14:30 Lunch Break

Session (A)

14:30-16:00 Session (A) (Senate Hall)

Chair: Margit Antal

14:30-15:00 **Cristina Andreea Tomoiu:** Automatic AI Detection for Romanian Language

15:00-15:30 **Monica Emilia Văruicu:** Automatic Detection of Core Sections in Scientific Papers

15:30-16:00 **David Iclănzan:** Forensics and Feedback at Scale for Digital Assignments

16:00-16:30 Coffee Break

Session (B)

16:30-18:00 Session (B) (Senate Hall)

Chair: Krisztián Búza

16:30-17:00 **Margit Antal:** Benchmarking Open-Source LLMs in RAG Systems with Diploma
Abstracts

17:00-17:30 **Lóránt Hadnagy:** Algorithmic Expression of Tensor Operations in Iversonian
Languages

17:30-18:00 **Rolland-Zsombor Csiszér:** Embedding Models for Hungarian Chatbots: Retrieval
Performance and Efficiency Analysis

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Program Informatics

September 9th, Tuesday

8:00-9:30 Breakfast

9:30-10:30 Plenary Talk

András Pataricza: Formal methods: the fundament for critical IT applications (Chair: Gyöngyvér Márton) - Room 114

Session (C)

10:30-12:30 Session (C) (Room 114)

Chair: András Pataricza

10:30-11:00 Gyöngyvér Márton: Observations on the impact of AI on cryptography

11:00-11:30 Dániel Derzsi: Automated Dependency Resolution in Container Orchestration

11:30-12:00 Szabolcs Csaholczi: Optimized U-Net Architecture with Residual and Attention Blocks for Multi-Class Tumor Segmentation

12:00-12:30 Mirtill-Boglárka Naghi: Self-Tuning Clustering: Toward Automated Parameter Optimization in Fuzzy C-Means Clustering Models

12:30-15:00 Lunch Break

15:00-16:00 Plenary Talk

Zoltán Gál: Technology and scientific aspects of the satellite-based and mobile cellular communication services integration (Chair: László Pál) - Senate Hall

16:00-16:30 Coffee Break

Session (D)

16:30-18:00 Session (D) (Room 114)

Chair: Mirtill - Boglárka Naghi

16:30-17:00 László Pál: Index Tracking Portfolio Construction with Sector Weight and Turnover Constraints

17:00-17:30 Levente Filep: Performance Evolution of Swarm Intelligence Algorithms

17:30-18:00 Bence Kovács: Investigation and Application of Traveling Salesman Algorithms in Urban Route Planning



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Program Informatics

September 11th, Thursday

8:00-9:30 Breakfast

10:00-10:30 Plenary Talk

Mihai Oltean: F-Roof: a single-layer multifunction roof (Chair: Maria Csernoch) - Senate Hall

Session (E)

10:30-12:30 Session (E) (Senate Hall)

Chair: Mihai Oltean

10:30-11:00 Ádám Gulácsi: Games and algorithms: a co-operative board game for teaching elementary algorithms

11:00-11:30 Erika Osztian: From Dance to Code: A 20-Year Journey

11:30-12:00 Maria Csernoch: Problem-Solving Strategies and Wastes in Digital Text Management

12:00-12:30 Zoltán Kátai: The Sapientia ECN AI Baseline Index: Comparing LLMs to Student Performance in Competitive Programming

12:30-14:30 Lunch Break

14:30-16:00 Panel Discussion

AI for Education: Friend, Foe, or Future? (Hosted by Zoltán Kátai) - Senate Hall

16:00-16:30 Coffee Break

Session (F)

16:30-17:30 Session (F) (Senate Hall)

Chair: Erika Osztian

16:30-17:00 Dániel Nágó: Gamification of Examination: A New Method and Tool in the Spirit of "Who Wants to Be a Millionaire?"

17:00-17:30 Katalin Tünde Jánosi-Rancz: School Dropout of Hungarian Students in Romania