

May 4, 2026

13:00	18:00	Registration
19:00		Welcome Dinner

May 5, 2026

7:30	9:00	Registration, Breakfast
9:00	9:15	Opening Ceremony <i>Milan Turčáni, František Petrovič</i>

Keynote Lectures (Chairman: Zoltán Balogh), Room A

9:30	10:00	Path to Energy-Autonomous Systems-On-Chip Through Ultra-Low-Voltage Design and Energy Harvesting <i>Viera Stopjaková</i>
10:00	10:30	Scaffolding Data-Centric AI: Engineering Patterns and Failure Modes in Undergraduate Projects <i>Tomáš Pitner</i>
10:30	11:00	Break

	Session 1 (Chairman: Boris Aberšek), Room A	Session 2 (Chairman: Gergely Sebestyén), Room B
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	Session 1 (Chairman: Boris Aberšek), Room A	Session 2 (Chairman: Gergely Sebestyén), Room B	
11:00	11:10	Use Of Artificial Intelligence: University Students' Positions in Lithuania and Romania <i>Vincentas Lamanauskas, Gabriel Gorghiu, Costin Pribeanu</i>	Data-Driven Analysis of EV Charging Behavior for Priority-Oriented Load Management Systems <i>Istvan Szucs, József Kopják</i>
11:10	11:20	From Disruption to Evolution: The Next Era of Educational Transformation <i>Boris Aberšek, Metka Kordigel Aberšek, Maja Kerneža</i>	Hierarchical Object Detection in Historical Handwritten Substitution Cipher Keys Using YOLOv11 <i>Stanislav Marochok, Michal Balogh</i>
11:20	11:30	Reading and Writing as Enabling Practices in Technology-Enhanced Learning for Students with Special Educational Needs <i>Maja Kerneža, Maja Vičič Krabonja, Andrej Flogie</i>	PLECS for Resource-Constrained and Distance-Friendly Power Electronics Education: An Education-Focused Comparison with MATLAB/Simulink <i>Mark Wendler, József Kopják, Gergely Sebestyén</i>
11:30	11:40	Teaching Informatics in Primary School: A Comparative Analysis of Ukrainian Teachers' Practices and the Polish Core Curriculum <i>Eugenia Smyrnova-Trybulska, Nataliia Morze</i>	Experiences With AI, Attitudes Towards Its Use and Ethical Concerns of Teaching Students: Correlation Analysis <i>Vladimír Piskura, Jana Burgerová</i>
11:40	11:50	Integrating Generative Artificial Intelligence as a Learning Assistant in Software Engineering: Evaluating	Intelligent Database Systems for Sustainable Development: Real-Time ESG Monitoring in African FMCG Operations

		Developer Productivity with Cost-Benefit Analysis <i>Marta Palade, Maria Elena Boatca, Andra Diaconescu, Anca Draghici</i>	<i>Chinyere Chidera Okechukwu, Petra Poulová, Pavel Bachmann</i> 🎧
11:50	12:00	Interaction between Real and Virtual Environments in Chemistry Education using the Example of Redox Reactions <i>Martin Břlek, Hana Hlavsova, Veronika Machkova</i>	A High-Fidelity VR Framework for Immersive Performance Analytics and Seamless User Feedback in Construction 4.0 Environments <i>Mariana Moreiras, Luis Alfonso, Leonel Deusdado</i> 🎧
12:00	13:00	Lunch	
14:00		Social Event	
19:00		Gala Dinner	

May 6, 2026

7:30	8:30	Breakfast	
		Special Session Smart Biosignal Analysis: IoT, Sensors and Machine Learning Applications (Chairman: Zoltán Balogh), Room A	Special Session Algorithmic Trading and Computational Intelligence in Finance (Chairman: Martin Drozda), Room B
9:00	9:10	Multimodal Analysis of VR Training Scenarios for Industry 5.0: An Interdisciplinary Approach to Physiological, Behavioral, and Technological Aspects <i>Denis Ďuriač, Zoltán Balogh</i>	The Impact of Binary Target Engineering on Sector-Wise Class Differentiation in Next-Day Return Prediction <i>Lívia Kelebercová, Michal Munk, Jakub Marták</i>
9:10	9:20	Machine Learning Classification of Soil Properties for Discriminating Regenerative and Conventional Agricultural Management Regimes Using IoT Sensor <i>Kristián Fodor, Zoltán Balogh</i>	Enhancing Time Series Forecasting using Persistent Homology <i>Patrik Šebek, Martin Drozda, Maroš Čavojský</i>
9:20	9:30	Human vs. LLM Risk Assessment: A Comparative Study of ISO 27001 Cyber Risk Classification <i>Marek Hrabčák, Zoltán Balogh</i>	Kagi Chart Representations as Structured Inputs for Deep Learning Models <i>Filip Hodoň, Maroš Čavojský, Martin Drozda</i>
9:30	9:40	Low-Cost Flight Data Recording and Cloud-Based Analysis Platform for General Aviation Training <i>Martin Vozár, Ladislav Fózó, Peter Korba, Zoltán Balogh</i>	Gamified Financial Education: Human vs. Deep Learning Trading Agents <i>Maroš Čavojský, Martin Drozda, Filip Hodoň</i>
9:40	9:50	Analysis of Security Risks Associated with Cookies in University Information Systems	Geometric and Topological Perspectives on Financial Market Dynamics

9:50	10:00	<p><i>Jan Francisti, Marián Hlavačka, Zoltán Balogh, Azeta Tartaraj</i></p> <p>Security Evaluation of Communication Protocols in Wireless Sensor Networks for Smart Building Environments</p> <p><i>Zoltán Balogh, Zsolt Čonka, Martin Magdin, Norbert Ádám, Shkëlqim Fortuzi</i></p>	<p><i>Jakub Marták, Michal Munk, Daša Munková, Lívia Kelebercová</i></p> <p>Cumulative True Range for Benchmarking of Trading Algorithms</p> <p><i>Martin Drozda, Maroš Čavojský</i></p>
10:00	10:10	<p>Development of a robot function to support children's movement coordination: a NAO-based approach</p> <p><i>Enikő Nagy, György Molnár</i></p>	<p>Portfolio Optimization with TD3 Algorithm Using Technical Indicators</p> <p><i>Šimon Teodora, Peter Likavec, Maroš Čavojský, Martin Drozda</i></p>
10:10	10:20	Break	
		Session 3 (Chairman: Attila Kővári), Room A	Session 4 (Chairman: Jan Francisti), Room B
10:20	10:30	<p>Kandó Cloud Campus: A Project-Based, Distributed-Resource Higher-Education Ecosystem</p> <p><i>István Németh, Gergely Sebestyén, Dávid Sik, György Molnár</i></p>	<p>AI Literacy of Teachers in the Czech Republic in the Context of DigComp 3.0</p> <p><i>Kristýna Kiliánová, Petra Kočková, Kateřina Kostolányová</i></p>
10:30	10:40	<p>Student perceptions of school support for creativity and innovation in technical education</p> <p><i>Elod Gogh, Attila Kovari</i></p>	<p>Comparison of Human and GenAI Feedback Generation for Programming Assignments</p> <p><i>Ľubomír Benko, Janka Pecuchová, Lucia Benková</i></p>
10:40	10:50	<p>Critical Thinking and Media Use in Technical Education</p> <p><i>Elod Gogh, Attila Kovari</i></p>	<p>Mapping Citizen Science Platforms for Environmental Education in Slovakia</p> <p><i>Katarina Skokanova, Imrich Jakab</i></p>
10:50	11:00	<p>Digital Green Campus Interventions: Conditions Under Which AI and IoT Generate Educational Value Alongside Operational Sustainability</p> <p><i>Imre Tóbel</i></p>	<p>Inquiry-Based Learning in Secondary Education through Scavenger Applications</p> <p><i>Imrich Jakab, Zuzana Pucherová, Martina Agarski, Dana Kollárová</i></p>
11:00	11:10	<p>Generative AI in Academia: Student Perspectives</p> <p><i>Olga Martincikova Sojkova, David Martincik, Vaclav Prochazka, Jan Tluchor</i></p>	<p>Didactic Potential of 3D Pen Activities Designed by Pre-service Teachers in the Context of the New National Curriculum: A Qualitative Content Analysis</p> <p><i>Maria Anna Jedina, Lilla Korenova, Angelika Schmid, Katarina Zilkova</i></p>
11:10	11:20	<p>Teaching art history with the help of a three-dimensional virtual model</p> <p><i>Jan Vopršal, Marie Hubálovská</i></p>	<p>STEM in Education: A Comparative Analysis of the Influence of Physical Hardware and Simulation on the Development of Algorithmic Thinking</p> <p><i>Petr Coufal, Eva Milková</i></p>

11:20	11:30	Transforming Higher Education: A Case Study on the Integration of Coursera at the University of Hradec Králové <i>Petra Poulova, Miroslava Černá</i>	An Indicator-Based Framework for Adaptive Distance Learning: Design of a Learner-Needs Model and Expert Validation <i>Iryna Bilous, Viktoriia Homotiuk, Oksana Gomotiyyk, Azeta Tartaraj, Beata Akimjakova, Oto Mucka</i>
11:30	11:40	Integrating AI and Formative E-Assessment in Geometry Education <i>Katerina Biernatova, Lilla Korenova</i>	Developing spatial imagination and STEM skills using unmanned technologies <i>Radek Nemec</i>
11:40	11:50	Voice-Controlled game interaction <i>Patrik Voštinár, Radoslav Proft</i>	Analysis of the pilot verification of the questionnaire on the use of digital teaching aids by teachers in the school education process <i>Júlia Surodová, Ján Záhorec, Michal Munk</i>
11:50	12:00	Students' Intrinsic Motivation When Using Moodle in Informatics Classes <i>Ladislav Kalous</i>	Assessing Cognitive Load in Technology-Enhanced Learning Environments: An Interface-Based Evaluation Framework <i>Iryna Yaroschuk, Oksana Gomotiyyk, Oleksandr Kolesnyk, Lubomir Pekarcik, Tomáš Lengyelfalusy, Filip Makan</i>
12:00	12:10	AI-Generated Single-Use Educational Applications: The Process of Creation, Publication and Quality Verification <i>Petr Voborník</i>	Digital Education as a Tool for Shaping Modern Human Capital: A Comparative Analysis of Eastern European Countries <i>Viktoriia Savitska, Oksana Gomotiuk, Mykola Karmaz, Tomáš Lengyelfalusy, Ervín Weiss, Filip Makan</i>
12:10	12:20	Feedback and Assessment as a Comprehensive Learning Support System in Online Teacher Education Courses <i>Lucie Rohlíková</i>	Digital Inclusive Technologies in the Literacy Education of Primary School Pupils <i>Filip Makan, Andriana Shyshak, Rostyslav Rudenskyi, Silvia Jakobová, Miroslav Tvrdoň, Beáta Akimjaková</i>
12:20	12:30	Reproducible Synthetic Tabular Data Generation for Education with Gemini <i>Olga Martinickova Sojkova, Miroslav Adámek, Mikuláš Gangur</i>	Modeling Cybersecurity in Smart Cities: A Knowledge-based approach <i>Peter Mikulecký, Pavel Čech, Karel Mls, Tereza Otčenášková, Daniela Ponce, Peter Tučník, Andrea Žváčková</i>
12:30	12:40	The use of Guilford's structural model of intelligence in the design of adaptive learning systems <i>Ernest Kováč, Jozef Belko, Ján Máhrik, Stanislav Šurin, Ervín Weiss</i>	
12:45	13:00	Closing Ceremony	
13:00	14:00	Lunch	

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