

IVUS 2026

MAY 12

INFORMATION SOCIETY AND UNIVERSITY STUDIES

08:30 – 09:00	REGISTRATION EDU_Lab (Studentų st. 50)
09:00 – 09:15	OPENING CEREMONY Assoc. Prof. Audrius Lopata, Faculty of Informatics, Kaunas University of Technology

In-person

09:15 – 11:00 Session 1, chaired by Assoc. Prof. Audrius Lopata EDU_Lab, Room 108	
09:15 – 09:30	Gvidas Ambrozaitis and Mantas Jurgelaitis Rethinking Model Differencing for SysML v2: Challenges and Future Directions
09:30 – 09:45	Ieva Valatkevičiūtė, Lina Čeponienė and Tomas Valatkevičius <i>The Use of UML Use Case Diagrams and Their Specifications for Test Case Generation</i>
09:45 – 10:00	Arnas Bosas and Eglė Butkevičiūtė <i>AI-Assisted Clinical Decision Support for Urology Oncology: Baseline Machine Learning Experiments on Noisy EHR Data</i>
10:00 – 10:15	Deividas Urbonas and Ramūnas Kubiliūnas <i>Updating The Professional Knowledge of Electronics Engineers in the Context of Rapidly Changing Technologies</i>
10:15 – 10:30	Tomas Kanapickas, Ugnius Lukošius and Andrius Kriščiūnas <i>Geo-Localization in OpenStreetMap-Derived Semantic Map Space Using Structural Embeddings</i>
10:30 – 10:45	Tomas Vainoris and Lina Čeponienė <i>Automated Test Generation for Microservices from UML Sequence Diagrams</i>
10:45 – 11:00	Kyrylo Kolesnichenko and Martas Ambrazianas <i>Can Structured Prompting Overcome Knowledge Bias in Vision-Language Models?</i>

Online

09:15 – 11:00 Session 1, chaired by Prof. Daina Gudoniene EDU_Lab, Room 106	
09:15 – 09:30	Jakub Dras and Piotr Pilszczek <i>Hawk-Dove Dynamics in Continuous Spaces: Escaping Local Optima via Game-Theoretic Swarm Regulation</i>
09:30 – 09:45	Maksim Iavich, Vladimir Svanadze and Ketevani Grdzeldze <i>Development of an Information Security Governance Framework in Fragmented Circumstances</i>
09:45 – 10:00	Malika Baizakova and Kadyralieva Nurayim <i>A Federated Graph Neural Network for Integrating Clinical, Imaging, and Genetic Data Across Hospital Systems</i>
10:00 – 10:15	Piotr Pilszczek <i>The Effect of Providing LSTM-Based Neural Networks Used for Time-Series Predictions with Relational Data</i>
10:15 – 10:30	Zhibek Primova and Gulzat Muktarkanova <i>Explainable AI for Fair and Transparent Resource Allocation in Smart Cities</i>
10:30 – 10:45	Bohdan Kostyk <i>An Algorithm Inspired by the Ant Colony System for Solving NxN Sliding Puzzles</i>
10:45 – 11:00	Mukhriddin Arabboev, Begmatov Shohruh, Sukhrob Bobojanov, Nor Erne Nazira Bazin and Akhram Nishanov <i>Benchmarking DenseNet121, ViT-Base, and Swin-Tiny for Multiclass Mpxox Skin Lesion Classification</i>



COFFEE BREAK

11:00 – 11:15



In-person

11:15 – 13:00

Session 2, chaired by Assoc. Prof. Audrius Lopata
EDU_Lab, Room 108

11:15 – 11:30	Guoda Stulpinaitė and Mantas Jurgelaitis Towards Automated Evaluation of UML Models in Teaching Software Engineering
11:30 – 11:45	Tomas Danikauskas, Algirdas Šukys and Milda Aksamitauskas <i>Metadata Quality Governance in a Data Lake: A Case Study of Lithuania's State Open Data Infrastructure</i>
11:45 – 12:00	Vilius Bankauskas and Andrius Kriščiūnas <i>Generative Data Augmentation for Dual-Plane Monocular Depth Estimation of Non-Lambertian Surfaces</i>
12:00 – 12:15	Simas Krušniauskas, Šarūnas Grigaliūnas and Rasa Brūzgienė <i>A Unified Classification Model for Quantum-Enabled Cyberattacks</i>
12:15 – 12:30	Arnas Nakrošis, Jad Kaedbey, Dmytro Klepachevskyi, Marius Klumbys, Vusal Aliyev and Agnė Paulauskaitė-Tarasevičienė <i>Anomaly Detection Approach for Cow Behavior Without Relying on a Predefined Gold Standard</i>
12:30 – 12:45	Algimantas Venčkauskas, Ignas Plauska, Nerijus Šatkauskas <i>Challenge-Based Learning in Cybersecurity Fundamental Studies</i>
12:45 – 13:00	Maksim Iavich, Maia Ninidze, Tea Tvalavadze and Maia Jangidze <i>Graphematic Analysis of Unsigned Manuscripts for Authorship Identification</i>

Online

11:15 – 13:15

Session 2, chaired by Prof. Daina Gudoniene
EDU_Lab, Room 106

11:15 – 11:30	Akylai Zhumabekova, Artem Kipin and Al Khan <i>A Conceptual Architecture for Confidential Feature Engineering: Integrating TEE and Blockchain for Privacy-Preserving IoT Analytics</i>
11:30 – 11:45	Al Khan and Ainur Mukhiyadin <i>Causal Ablation Analysis: Isolating Pathological Features from Spurious Correlations in Dermatoscopic Diagnosis</i>
11:45 – 12:00	Zofia Wawrzos <i>From Pixels to Graphs: Grid and Superpixel Graph Construction for Drone-Bird Image Classification Using Graph Neural Networks</i>
12:00 – 12:15	Sergei Simonovi, Giorgi Iashvili, Avtandil Gagnidze and Malkhaz Bibiluri <i>SISSRP: A Post-Quantum Augmented PAKE Based on the Short Integer Solution Problem</i>
12:15 – 12:30	Bohdan Kostyk <i>The 15-Puzzle: From Solvability Check to Fast Sub-Optimal Solution Search</i>
12:30 – 12:45	Jakub Dras <i>Mathematical Optimization of Loan Approval Neural Networks via First-Order Taylor Pruning and Affine Quantization</i>
12:45 – 13:00	Yuliya Averyanova, Maxim Ivanytskyi, Yevheniia Znakovska, Nadiia Sauliak and Danyil Kloktka <i>Potentials of Neural Models for Wheat Disease Detection in Precision Agriculture</i>
13:00 – 13:15	Sahil Kale <i>Avani: A Voice-Driven AI System for Scalable Farm-Level Decision Support</i>

WORKSHOP (Supported by Project No. 101244751 – AISSAM)
EDU_Lab, Room 108
13:00 – 15:00

Dr. Tamari Kuchukhidze

AI Use in Static and Symbolic Analysis