

THURSDAY, OCTOBER 15th

09:00 – 09:30 **REGISTRATION** | *KTU Campus Library (Studentų st. 48)*

09:30 – 10:00 **OPENING CEREMONY**

Prof. **Kęstutis Baltakys**, Vice-Rector for Research, Kaunas University of Technology

Assoc. Prof. Dr. **Audrius Lopata**, Conference Chair, Faculty of Informatics, Kaunas University of Technology

10:00 – 11:00 **KEYNOTE**

Marcin Woźniak

The Evolution of AI: Breakthroughs, Trends, and What's Next



11:00 – 11:30

11:30 – 12:30 **SESSION 1** (part 1) | *KTU Campus Library*

DATA ANALYSIS

Special Session on ***Intelligent Methods for Data Analysis and Computer Aided Software Engineering***

Chaired by Assoc. Prof. Dr. **Audrius Lopata**

1. ML-Based Prediction of Urban Structure Quality Indicators

Vitoldas Vilkoicas, Milda Sutkaitytė and Rimantas Barauskas

2. Evaluating the Effectiveness of Mobile Applications in a Post-Television Environment: Evidence from the Georgian Public Broadcaster

Natia Popkhadze, Avtandil Gagnidze and Maksim Iavich

3. Method for Detection of Hate Speech in Lithuanian Language

Martynas Čepas, Nerijus Morkevičius, Agnius Liutkevičius,
Audronė Janavičiūtė and Dovas Milkeris

4. Explainable Data-Driven Anomaly Detection Framework for Decision-Making Support

Imelda Zadeja and Kaspars Osis

12:30 – 13:30



13:30 – 14:45

SESSION 1 (part 2) | KTU Campus Library

DATA ANALYSIS

Special Session on **Intelligent Methods for Data Analysis and Computer Aided Software Engineering**

Chaired by Dr. Michael Sletten

1. Siamese Residual Networks for Manuscript Authorship Verification: A Patch-Based Handwriting Discrimination Approach

Maksim Iavich, Maia Ninidze, Tea Tvalavadze and Maia Jangidze

2. Incremental Dense 3D Reconstruction on Mobile Devices Using Classical Geometry Without Depth Sensors

Aivaras Puškorius and Andrius Kriščiūnas

3. Parameter-Efficient MobileNetV2 Subnetwork Selection for Facial Expression Recognition in Low-Data Regimes

Ananthakrishnan Thuruthel Murali and Armantas Ostreika

4. Automated Data Extraction from CV Documents Using Fine-Tuned RoBERTa and DistilBERT Model

Erikas Rudokas, Dominykas Barisas and Mikas Binkis

5. Measuring and Optimising Visibility in Generative Search Systems

Dmytro Klepachevskyi, Samuel Birhanu, Jonas Paulavičius, Lukas Baltramaitis and Aistis Raudys



14:45 – 15:00

15:00 – 16:30

SESSION 2 | KTU Campus Library

CYBER SECURITY

Special Session on **Cyber Security**

Chaired by Assoc. Prof. Dr. *Ilona Veitaitė*

1. The Baby Steps of the European Union Vulnerability Database: An Empirical Inquiry

Jukka Ruohonen

2. Phishing Website Detection: Comparison Between Classic Machine Learning Algorithm XGBoost and LLM Approach

Rokas Gudžiūnas

3. Empirical Overhead Decomposition of Hybrid Post-Quantum Key Exchange in TLS 1.3

Nerijus Šatkauskas and Šarūnas Grigaliūnas

4. A Lifecycle Model Integrating Threat Modelling, Supply Chain Vetting, and Governed Recovery

Augustinas Labutis, Šarūnas Grigaliūnas and Rasa Brūzgienė

5. Cybersecurity Risk Identification: An Experimental Study on Multi-LLM Convergence Across Diverse Data Paradigms
Oleksii Chalyi and Kęstutis Driaunys

6. Structuring Human Oversight in GenAI Systems Through CISO Governance
Ilona Veitaitė, Rasa Brūzgienė, Donatas Misiūnas and Ieva Andrijauskaitė

16:30 – 18:30 

FRIDAY, OCTOBER 16th

09:00 – 09:30 **REGISTRATION** | *KTU Campus Library (Studentų st. 48)*

09:30 – 10:30 **KEYNOTE**
Pete Herzog
Security as a Natural Law: How the Universe Applies Persistence

 10:30 – 11:00

11:00 – 12:45 **SESSION 3** (part 1) | *KTU Campus Library*
SOFTWARE ENGINEERING
Special Session on **Intelligent Systems and Software Engineering Advances**
Chaired by Prof. *Filippo Sanfilippo*

1. AI-Based Selection of Learning Activities for Adaptive Learning Support: A Moodle-Compatible Q-Learning Framework for International Baccalaureate Diploma Programme Practice
Donatas Iliška and Milijus Lynikas

2. Arithmetic Optimization Algorithm for the Quadratic Assignment Problem

Alfonsas Misevičius, Gintaras Palubeckis and Dovilė Verenė

3. Pypatternminer: An Open-Source Python Library for Pattern Mining

Tai Dinh, Bahing Rai Yelung, Sandesh Pathak, Pradhan Shrestha Naresh, Chowdhury Salehin Haque, Alif Ahetasamul Haque and Philippe Fournier-Viger

4. Optimized Transformers and Super-Resolution for Automated Table Extraction from Degraded Invoices

Mohamed El Aidi, Zouhair Elamrani Abou El Assad, Othmane El Meslouhi and Fadoua Khennou

5. A Comparison of Classical and Deep Methods for Extracting Audio Signal Features: MFCC vs VGGish

Mirostaw Witkowski

6. Simulation-Based Learning in Engineering Education: Student Case Studies on Solar-Driven Energy Efficiency Optimization in Buildings

Daina Gudonienė, Evelina Stanevičienė, Jonas Čeponis, Kęstutis Jankauskas, Jurgita Černeckienė, Rokas Valančius, Andriy Kashyrskyy, Jacob Sagrams, Charles Xie, Dylan Bulseco, Oleh Lysak, Oleksandr Tsypliak, Viktor Mileikovskiy

7. Salp Swarm Algorithm for Hyperparameter Optimization in Software Fault Prediction: The Role of Transformation Functions

Kahina Kessi, Ahmed Taha Haouari, Chouaib Karbala, Mohamed Amine Mernache, Mohamed Ilies Charane and Mohamed Abdelillah Ouraou

13:30 - 15:00

SESSION 3 (part 2) | KTU Campus Library**SOFTWARE ENGINEERING****Special Session on *Intelligent Systems and Software Engineering Advances***Chaired by Assoc. Prof. Dr. *Jonas Čeponis***1. Synthetic Personas for Social Networks: Census Demographics with LLM-Generated Behavior***Sergej Schultenkämper and Frederik Simon Bäumer***2. Inclusive Educational Technologies for Students with Physical Disabilities***Bozena Marejek, Justyna Janik, Daina Gudonienė, Evelina Stanevičienė, Donatas Iliška, Maria Pilar Ortega Leal, Natalia Morkun and Gerhard Fischerauer***3. Systematic Identification of Web Accessibility Requirements in Early Software Development Stages***Sofija Sokolovaitė and Kęstutis Kapočius***4. Improvement of PCA: a Dual-Annealing and a Neural Approach***Talha Karadeniz, Gül Tokdemir and H. Hakan Maraş***5. Towards Reliable Instruction-Following in LLM Multi-Turn Workflows: An Empirical Comparison of Prompting and Control Architectures***James Wanjiku, Andrii Zhurba, Yeabtsega Yifat and Aistis Raudys***6. Ablating Retrieval Modules for Temporal Conflict Resolution in Legal RAG***Dmytro Asieiev, Emilija Bareikaitė, Jonas Urnėžius, Jadrine Kaburu, Aušra Šubonienė and Kostas Ragauskas*

15:00 – 15:15

15:15 – 16:15

SESSION 4 | KTU Campus Library**INFORMATION SYSTEMS**Special Session on ***E-Health Information Systems***Chaired by Assoc. Prof. Dr. ***Vytenis Punys******1. Haar Wavelet Patch Embedding for Multiple Sclerosis Lesion Segmentation******Mariia Krasniuk and Dalia Čalnerytė******2. Stress Detection in Humans Only Using Visual Data******Marius Klumbys and Eglė Butkevičiūtė******3. Interpretable Classification of Skin Lesions using ProtoPNet and Expert Feature Integration******Marius Varna and Dominykas Barisas******4. Application of Segmentation Models for Automated Multiple Sclerosis Lesion Detection in MRI******Kamilė Lukoševičiūtė and Dalia Čalnerytė***

16:15 – 16:30

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