

## **Session Program**

**17-19 Sept 2025**

# **2025 RoEduNet Conference: Networking in Education and Research**

## **Open Source Education and Research**

Tehcnical University of Moldova  
168, Stefan cel Mare bd, Chisinau, Republic of Moldova

## Thursday 18 September

11:40

### Open Source Education and Research

**Session** | **Location:** Room 3, Technical University of Moldova | **Convener:** Lilia Sava

11:40–11:55

#### Protocols for semantic interoperability in distributed environments

**Speaker**

Leon Brânzan

11:55–12:10

#### INTELLIT version 3.0 - Advanced Infographics and Semantic Analysis on Romanian Literature Corpora

**Speakers**

Alin-Gabriel Stan, Mr Laurentiu Neagu

12:10–12:25

#### High-Precision Localization for Mecanum-Wheeled Robots Using Sensor Fusion with ArUco Markers

**Speaker**

Alexandru Toader

12:25–12:40

#### Exploring OCR: Combining Open-Source Engines for Improved Document Digitization

**Speaker**

Mr Mihai-Lucian PANDELICĂ

12:40–12:55

#### Design and Implementation of a Preference-Based Activity Management System for Professors and Students

**Speaker**

Ms Diana-Alina Pințoiu

13:00

# Friday 19 September

14:00

## Open Source Education and Research

**Session** | **Location:** Room 1 | **Convener:** Prof. Răzvan Victor RUGHINIȘ

14:00–14:15

### HectorIDE: A Document Centric Platform for AI Powered Software Development

**Speaker**

Gabriel Danca

14:15–14:30

### Heterogeneous Communications in Industrial IoT: Trends, Challenges, and Opportunities

**Speakers**

Dumitru-Cristian Tranca, Mrs Nicoleta-Alexandra Maracine

14:30–14:45

### Can Chatbots Build CTFs? A Preliminary Assessment of LLMs in Jeopardy-Style Challenge Generation

**Speaker**

Mihai Chiroiu

14:45–15:00

### Optimizing Renewable Energy Consumption in Smart Homes Using Deep Q Networks and Knowledge Graphs

**Speaker**

Cristina Pop

15:00–15:15

### An AI-Driven Architectural Framework for Autonomous Network Management in 5G SA and Beyond

**Speaker**

Mrs Ioana Dragus

15:15–15:30

### Optimisation of the Gray-Scott Model for Reaction-Diffusion - CPU-GPU Component

**Speaker**

Alexandru-Constantin Bala

15:30