

## **Session Program**

**Apr 27 - 30, 2026**



# **NextGen Synergy: Control Theory and Machine Learning**

## ***Poster Session A***

Faculty of Economics and Management, Czech University of Life Sciences  
Kamýcká 129, 165 00 Prague

# Mon, April 27

4:20 PM

## Poster Session A

Poster Session | Location: Atrium, PEF

**An Integral Controller for Physics-Informed Learning**

**Digital Twin of a Dairy Herd: Multi-Agent Reinforcement Learning and LLM Explainability for Farm Optimisation**

**AI techniques for anomaly assessment in port structures**

**Reinforcement Learning Approach for Traffic Signal Control**

**Control-Informed Machine Learning for Modeling Migration Intention Dynamics: Evidence from a Youth Emigration Survey**

**Relating Discrete-Valued Random Variables: Advanced Bayesian Structure Estimation**

**Tuning Robust Sequential Decision-Making Models in Adversarial Environments**

**Digital Twin of the City of Zilina**

**Qualitative analysis of degenerate evolution equations arising when modelling neural, electrical and gas networks**

**Graph-Based Relational Learning for Cyber-Attack Detection in Water Distribution ICS: An Imbalance-Aware Study on BATADAL**

**On controllability of linear fractional time-varying systems and fractional evolution equations**

**Bayesian inversion methods and toolbox for their application to accidental radionuclide releases**

5:50 PM