Thursday 24 April

09:00

09:10

Opening
Session | **Location:** Stara Kotłownia, SK 108, Warsaw University of Technology, Main Campus | **Convener:** Wlodzimierz Dabrowski

09:10

Keynote
Session | **Location:** Stara Kotłownia, SK 108, Warsaw University of Technology, Main Campus

Description
Dawid Adach: seryjny przedsiębiorca, inwestor, współtwórca MDB, CogniVis.ai oraz HydroCrops.farm. Z rozwiązań jego spółek korzysta ponad 3 mln użytkowników – w tym m.in. NASA, Amazon, Airbus czy Nike. Laureat listy „30 przed 30" polskiego „Forbesa".

09:10–09:30   **Agent AI: współpraca, konkurencja czy symbioza?**

Speaker
Dawid Adach

09:30

09:30

Session A (Presentation)
Session | **Location:** Stara Kotłownia, SK 108, Warsaw University of Technology, Main Campus

09:30–09:42

Procedural civilization development including economical aspects and the terrain.

Speakers
Michał Kostera, Paweł Cegielski

09:42–09:54

Convolutional Kolmogorov Arnold Networks as an accurate alternative to Convolutional Neural Networks for rule discovery in Game of Life

Speakers
Maciej Michalski, Patryk Ferenc, Sebastian Górka

09:54–10:06   **Mamba SSM with Kalman Filtering in Pendulum RL environment**

Speaker
Piotr Klepacki

10:06–10:16   **Line Follower Algorithm for a Flying Quadcopter**

Speaker
Mikolaj Stasiak

10:16–10:28

Optimization of neural network model for malware detection accelerated on mobile NPUs

Speaker
Jan Konarski

10:30

10:30

Break
Break | **Location:** Stara Kotłownia, SK 108, Warsaw University of Technology, Main Campus

10:45

10:45

Session B (Poster)

Session | **Location:** Stara Kotłownia, SK 04/05, Warsaw University of Technology, Main Campus

---

10:45–11:15

Testy penetracyjne systemu zarządzania energią elektryczną OpenEMS — identyfikacja i mitygacja podatności w otwartoźródłowych systemach energetycznych

Speaker

Kacper Gorlowski

10:45–11:15 **Proxy Methods in Image Recognition**

Speakers

Barbara Borkowska, Marcin Maciąg

10:45–11:15

Comparing the Efficiency of Selected Reinforcement Learning Algorithms in Stability Control and Navigation Tasks

Speaker

Oskar Wyłucki

10:45–11:15

Automatic translation of Japanese manga using MultiModal Large Language Models

Speaker

Tomasz Nitsch

10:45–11:15

Exploring LLMs mathematical reasoning capability: Insights from GSM-Symbolic in English and Polish

Speakers

Marcin Łomiński, Michał Tomczyk

10:45–11:15 **Ethereum price forecasting using deep neural networks**

Speaker

Oskar Rozwadowski

10:45–11:15

A Lung Volume-Based Perfusion SPECT and CT Comparison Algorithm for Enhanced Pulmonary Embolism Diagnosis

Speakers

Daniel Kisiel, Eryk Muchorowski

10:45–11:15

Enhancing Large Language Models with Retrieval-Augmented Generation: A Case Study on Movie Data Beyond the Training Cutoff

Speaker

Marcel Mikołajczyk

10:45–11:15

Analysis and comparison of missing value imputation methods for atmospheric pollution data

Speaker

Jakub Jasiński

10:45–11:15

Franky: An Intelligent Agent for Stock Portfolio Management Using Large Language Models and Deep Reinforcement Learning

Speakers

Mateusz Bartosik, Mikolaj Zawada

10:45–11:15   ## Zastosowanie modeli GAN do usuwania artefaktów z sygnału EEG

Speaker

Małgorzata Sokół

10:45–11:15

Verification of the authenticity of bullion coins with a mobile application based on frequency analysis using an artificial neural network

Speaker

Tomasz Gryczka

10:45–11:15

Accelerating AI Inference in the Browser with WebGPU: Evaluating Quantization Trade-offs in Latency, Quality, and Memory Usage

Speakers

Ignacy Ruszpel, Nikodem Wójcik

10:45–11:15   ## Evaluating detection methods of synthetic images

Speakers

Michal Wójtowicz, Michał Biliński

10:45–11:15

Comparative Analysis of Multi-Agent LLM Systems for Solving Polish Matura in Physics Exams

Speaker

Piotr Wróbel

10:45–11:15

Examination of PCA Utilisation for Multilabel Classifier of Multispectral Images

Speakers

Bartosz Staszynski, Filip Karpowicz, Wiktor Kępiński

10:45–11:15   ## Przewidywanie wstrząsów wtórnych przy pomocy Sieci Neuronowych.

Speaker

Mikołaj Klębowski

10:45–11:15

Optimizing Football Betting Strategies Using Deep Neural Networks and Modern Portfolio Theory

Speakers

Daniel Kuciński, Tomasz Mycielski

10:45–11:15   ## Pose-Based Motion Analysis for Physical Exercise Quality Assessment

Speaker

Wojciech Jakieła

10:45–11:15   ## Comparison of Models for Automatic Description of Medical Images

Speaker
Jakub Urbański

10:45–11:15

Comparative Analysis of Machine Learning and Statistical Models for Short-Term Energy Production Forecasting in Poland

Speaker
Jakub Karpiński

10:45–11:15   **Explainability of Convolutional Neural Network: Overview of Methods**

Speaker
Magdalena Markowicz

10:45–11:15   **Post-Quantum Cryptography: Benchmarking ML-KEM Against RSA**

Speaker
Nina Łabęcka

10:45–11:15

Evaluating unsupervised data mining methods to assess the utility of such approaches for SIEM event analysis.

Speaker
Marcin Dydo

10:45–11:15

Enhancing Phishing Detection on Websites: A Hybrid Approach Combining Signature-Based Detection and Traditional Machine Learning Methods - Abstract

Speakers
Jakub Romanek, Marcin Latawiec

11:15

11:15

Break
Break | **Location:** Stara Kotłownia, SK 108, Warsaw University of Technology, Main Campus

11:30

11:30

Session C (Poster)
Session | **Location:** Stara Kotłownia, SK 04/05, Warsaw University of Technology, Main Campus

11:30–12:00

Przegląd znakowania wodnego obrazów we współczesnych zastosowaniach

Speakers
Adam Pilewski, Mikołaj Kordowski

11:30–12:00   **Projekt uniwersalnego robota modularnego**

Speakers
Feliks Brzeziński, Kacper Olszewski, Patrycja Płodowska

11:30–12:00

Attacks on LSTM-Based Recurrent Neural Networks for Sentiment Analysis

Speaker
Rafał Zan

11:30–12:00   **Performance Comparison of WebAssembly and JavaScript**

Speakers
Jakub Ciszewski, Kaja Myk

11:30–12:00

Database Index Costs in the Cloud-Based Multitenant Architecture on the Salesforce Platform

Speaker

Stanislaw Zań

11:30–12:00

HDR - the impact of input parameters on the result for Debevec algorithm

Speakers

Jakub Maciejewski, Michał Ziober

11:30–12:00   **Perception manipulation and subjective reception of data**

Speaker

Filip Horst

11:30–12:00

Spatio-Temporal Memory System for Robots: Enabling Long-Term Contextual Reasoning

Speaker

Maciej Majek

11:30–12:00

Comparison of multiplatform technologies for mobile application development

Speaker

Michał Ankiersztajn

11:30–12:00

Development of a model of the electric field distribution inside the human brain

Speakers

Konrad Trusiewicz, Mikołaj Guryn, Zuzanna Gaik

11:30–12:00   **Selected methods in N-body simulations**

Speaker

Aleksy Bałaziński

11:30–12:00

User experience laws: a literature review and practical examples based on DoorCE project

Speaker

Jerzy Balcer

11:30–12:00   **Blazor WebAssembly and React comparison**

Speaker

Antoni Olszewski

11:30–12:00

Comparative Analysis of Continuous Software Delivery Tools Using Github Actions and Jenkins as Examples

Speaker

Paweł Prokopiuk

11:30–12:00

Badania i Implementacja Innowacyjnego Systemu Zasobnika Energii Współpracującego z Odnawialnymi Źródłami Energii INNOSTOR dla Zrównoważonego Rozwoju na Politechnice Warszawskiej

Speakers
Jakub Ćwiek, Jan Kowalik, Ryszard Kucharski

11:30–12:00

Flutter vs. React for Web Applications: A Comparative Benchmark Study of Performance Metrics and Developer Experience

Speaker
Jakub Witczak

11:30–12:00 **BBot - Behavioral reinforced learning bot to play blood bowl**

Speakers
Bartosz Nowicki, Karol Kociołek, Wiktor Wołek

11:30–12:00 **Overview of Communication Mechanisms Adopted in Modern Systems**

Speakers
Jakub Szczygielski, Michał Żdanuk

11:30–12:00 **Wpływ facylitacji na efektywność spotkań w projektach IT**

Speaker
Darya Vasilchyk

11:30–12:00 **Low-cost, home-made Quantum Computer**

Speaker
Hubert Kołcz

11:30–12:00

A Survey of Consensus Algorithms in Distributed Ledger Technology for Internet of Things

Speaker
Paweł Podgórski

11:30–12:00

Comparison of the Performance and Effectiveness of Hashing Algorithms

Speaker
Konrad Zilinski

11:30–12:00

Wpływ stopnia sprzężenia klas na czas wprowadzenia zmian - badanie empiryczne

Speaker
Dawid Pura

11:30–12:00

Machine Learning-Based Examination of ESG Factors in Stock Predictions

Speakers
Daniel Stańkowski, Daniel Ślusarczyk, Paweł Tęcza

11:30–12:00

Threat Detection in IIoT Networks through Deep Packet Inspection and Machine Learning Mechanisms

Speaker
Hubert Masłowski

12:00

12:00

Break / Voting Ends
Break | **Location:** Stara Kotłownia, SK 108, Warsaw University of Technology, Main Campus

13:00

13:00

Closing: Awards and Closing
Session | **Location:** Stara Kotłownia, SK 108, Warsaw University of Technology, Main Campus | **Convener:** Wlodzimierz Dabrowski

13:10