



CERN, SZTAKI, WIGNER RCP and the universities of ELTE together with the HEPTech Network are organizing the next

## Artificial Intelligence Academia-Industry Matching Event

Artificial Intelligence, Machine Learning and Scientific computing  
**ONLINE Workshop - 26,27 November 2020**

[Link](#) to the workshop

### PROGRAM

**26 November, Thursday**  
**Afternoon**

**13:30**

*Opening (10')*

**Dr. Péter József Lévai**, Director General Wigner RCP, Hungary

**13:40**

*Greeting words (10')*

**Dr. István Szabó**, Deputy General NKFIH, Hungary

**13:50**

*Life beyond the pixels: single-cell analysis using machine learning and image analysis methods (30')*

**Péter Horváth**, Director, BRC Szeged, Hungary

**14:20**

*Taming neural networks with TUSLA: Non-convex learning via adaptive stochastic gradient Langevin algorithms (25')*

**Attila Lovas** - Alfréd Rényi Institute of Mathematics, Hungary

**14:45**

*Methods for Interpreting Text Autoencoders (25')*

**Bálint Gyires-Tóth** - BME, Hungary

15:10 break (20')

**15:30**

*Representation and control: linear or nonlinear dimensionality reduction? (25')*

**Sandro Mussa-Ivaldi** - Northwestern Univ., USA

**15:55**

*Hashtlayer - Implementing on Xilinx Alveo Accelerator Cards (35')*

**Ernő David, Zoltán Lehóczky** - Wigner RCP; Lombiq Technologies Ltd., Hungary

**16:30**

*Conversational AI Technology - Business Applications (25')*

**Nadia Kaloyanova** - TechnologyValley, Bulgaria

**27 November, Friday**  
**Morning**

**09:00**

*The first year of the Hungarian Artificial Intelligence National Laboratory (MILAB) (25')*

**András Benczúr** – SZTAKI, Hungary

**09:25**

*The Hungarian AI strategy (25')*

**László Boa** - Hungarian Artificial Intelligence Coalition, Hungary

**09:50**

*nucleAIzer: nucleus segmentation with DL & image style transfer (35')*

**Réka Hollandi** - BRC, Szeged, Hungary

10:25 break (20')

**10:45**

*Considerations and Applications for HPC, Machine Learning and AI technologies for accelerating scientific discovery at next generation research infrastructures (25')*

**Jonathan Taylor** - European Spallation Source ERIC, Sweden

**11:10**

*Deep calibration (25')*

**Gábor Fath** - Morgan Stanley, Hungary

**11:35**

*Two years into the ESS Control System Machine Learning Project (25')*

**Karin Rathsman** - European Spallation Source ERIC, Sweden

12:00 lunch break (60')

**Afternoon**

**13:00**

*Superfeminine and Supermasculine Connections of the Human Brain (35')*

**Vince Grolmusz** - ELTE, Hungary

**13:35**

*Machine Learning in Government Bond Trading (25')*

**György Ottucsák** - Morgan Stanley, Hungary

**14:00**

*Market liquidity, order book dynamics and machine learning (25')*

**Balázs Meszéna** - Optiver Europe (on leave), Hungary

**14:25**

*VPNet: Variable Projection Networks (25')*

**Péter Kovács** - ELTE, Hungary

14:50 break (20')

**15:10**

*Playing detective: Dissecting silent failures of Deep Learning models for 3D Point Clouds (25')*

**Robert-Zsolt Kabai** - Continental, Hungary

**15:35**

*Insights to Hit to Lead (25')*

**Ivan Stankov** AI Incovered Ltd - Bulgaria

**16:00**

*Hardness of planning and learning with linear function approximation in reinforcement learning (35')*

**Csaba Szepesvari** – DeepMind, Univ. Alberta, USA