



AIME'18 - Academia-Industry Matching Event  
Machine Learning and Visual Analytics in the Clouds Workshop

## Timetable

Further information:

<https://indico.kfki.hu/e/aime18>



The event is sponsored by ACCELERATE

ACCELERATE is a Horizon 2020 project, supporting the long-term sustainability of large scale research infrastructures (RIs) through the development of policies and legal and administrative tools for a more effective management and operation of RIs, with a special focus on ERICs and CERIC in particular.

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Monday, 29th October

*Session Chair: Péter Lévai*

- 13:00 - 13:10     **Opening**  
*Péter Lévai*
- 13:10 - 13:35     **Supporting Decision Making through Interactive Visualisation**  
*John Isaacs*
- 13:35 - 14:00     **Artificial Intelligence and Smart Interaction Research  
at BME TMIT Smartlabs**  
*Géza Németh*
- 14:00 - 14:25     **Life beyond the pixels: image analysis and machine learning  
for single-cell analysis**  
*Péter Horváth*
- 14:25 - 14:50     **Getting Artificial Intelligence into industry**  
*Andrew Gargett*
- 14:50 - 15:10     **Coffee Break**

*Session Chair: Gergő Orbán*

- 15:10 - 15:35     **Turning software into computer chips – Hastlayer**  
*Zoltán Lehóczky*
- 15:35 - 16:00     **Online Machine Learning in Big Data Streams - Theory and Practice**  
*András Benczúr*
- 16:00 - 16:25     **Federated Learning on the Edge**  
*Márk Jelasity*
- 16:25 - 16:50     **From exploratory big data analysis towards run-time verification**  
*Dezső Burján*
- 16:50 - 17:10     **Coffee Break**

*Session Chair: Andrew Gargett*

- 17:10 - 17:35     **modAL: A modular active learning framework for Python**  
*Tivadar Danka*
- 17:35 - 18:00     **Machine learning: learning from reverse engineering human intelligence  
and engineering artificial intelligence**  
*Gergő Orbán*
- 18:00 - 18:25     **How hidden knowledge in series of temporal events can be extracted  
and utilized?**  
*Gyula Dörgő*

Tuesday morning, 30th October

*Session Chair: Dániel Berényi*

- 09:00 - 09:15      **International Pilot Projects for Digital Transformation of Hungary**  
*Antal Nikodémus*
- 09:15 - 09:30      **Introduction of the Accelerate Project**  
*Steve Welch*
- 09:30 - 09:55      **Applied Artificial Intelligence For Assisted and Autonomous Driving**  
*Róbert-Zsolt Kabai*
- 09:55 - 10:20      **The ESS Control System Machine Learning Project**  
*Karin Rathsmán*
- 10:20 - 10:45      **Quantum Computing, Quantum Software and AI**  
*Gábor Vattay*
- 10:45 - 11:15      **Coffee Break**

*Session Chair: Jean-Marie Le Goff*

- 11:15 - 11:50      **The Mathematical Foundations of Artificial Intelligence -  
about the National Excellence Program**  
*Balázs Szegedy*
- 11:50 - 12:15      **Understanding understanding**  
*Antal Jakovác*
- 12:15 - 12:40      **AI Methods in Human Language Technologies**  
*Gábor Prószéky*
- 12:40 - 13:05      **From Applied Deep Learning to Artificial General Intelligence**  
*András Lőrincz*
- 13:05 - 14:05      **Lunch**

Tuesday afternoon, 30th October

*Session Chair: Karin Rathsmann*

- 14:05 - 14:50      **Visualizing velocity field strengths in medical image data with hyper-surfaces in spacetime**  
*Bernd R. Schlei*
- 14:50 - 15:25      **Graph search and knowledge extraction related to communities**  
*Jean-Marie Le Goff*
- 15:25 - 15:50      **The Graph of Our Mind**  
*Vince Grolmusz*
- 15:50 - 16:15      **Network-based analysis of common genetic background of diseases**  
*Bence Bruncsics*
- 16:15 - 16:45      **Coffee Break**

*Session Chair: András Telcs*

- 16:45 - 17:20      **Failure root-cause analysis by data analytics: concept and a case study**  
*László Milán Molnár*
- 17:20 - 17:45      **Towards using ML in critical applications**  
*András Pataricza*
- 17:45 - 18:10      **Federated, privacy-preserving learning of large-scale probabilistic graphical models**  
*Péter Antal*
- 18:10 - 18:35      **ML and VA tools in support of software testing**  
*András Lukács*
- 18:35 - 18:45      **Best Poster, Student Presentation Award, Closing**  
*András Telcs*