



Luxembourg EU Summer School 2024: impact of AI on our daily work

VISITS

1) Meluxina Supercomputer

Address : 31 Rue du puits Romain, 8070 Bertrange (*transport arranged by the organization*).

Duration : 2h (15:00 - 17:00)

Max. visitors: 20

Description:

In June 2021, LuxProvide unveiled MeluXina, marking a significant leap in supercomputing. Designed for a broad range of complex, data-driven tasks, MeluXina embodies the future, blending simulation, modeling, data analytics, and artificial intelligence seamlessly.

Hosted on the advanced EVIDEN BullSequana XH2000 platform, it boasts a computing power of 18 PetaFlops per second, complemented by 20 PetaBytes of DDN storage. With its scalable, open architecture and the enhancement of GPU AI accelerators, MeluXina offers unmatched sustained performance, catalyzing innovation and breakthroughs in numerous fields.

2) LuxInnovation

Address : 5 Av. des Hauts-Fourneaux, 4362 Esch-Belval Esch-sur-Alzette (*transport arranged by the organization*).

Duration : 2h (15:00 - 17:00)

Max. visitors: 40

Description:

Luxinnovation is the Luxembourg national innovation agency. It offers services to companies and public research actors in order to foster innovation, thus supporting the Government's economic development objectives.

3) Luxembourg Institute of Science and Technology (LIST)

Address : Belval Innovation Campus – Maison de l'Innovation

5, Av. des Hauts Fourneaux, Esch-sur-Alzette (*transport arranged by the organization*).

Duration : 2h (15:00 - 17:00)

Max. visitors : 20

Description :

15:00 – Welcome to LIST and AI activities overview by Daniele PAGANI, *Lead Partnership Officer*

15:20 - Presentation and Demo of the AI sandbox by German CASTIGNANI, *Digital Twin Innovation Centre Manager - AIDA Platform Leader* /Jordi CABOT, *Head of the Software Engineering RDI Unit*

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The AI Sandbox is designed by LIST to help the Luxembourg ecosystem grow awareness and capabilities to improve the trustworthiness of AI models and reduce the risks for their users.

15:50 - Demo of Local Digital Twins by German CASTIGNANI, *Digital Twin Innovation Centre Manager - AIDA Platform Leader* /Luc VANDENABEELE, *Communication and Outreach Officer*

This tool showcases a 'local digital twin' on electromobility in a district of Eschsur- Alzette integrating several scenarios that demonstrate the impact on the electricity grid.

16:10 - Demo of COMBO by Sébastien FAYE, *6G Technology & Innovation Line Manager*

This demo showcases a use case of connected and automated shuttles with passenger and freight transport systems in Belval.

4) PwC AI Center

Address: 2, rue Gerhard Mercator, L-2182 Luxembourg (*transport arranged by the organization*).

Duration : 2h (15:00 - 17:00)

Max. visitors: 30

Description:

The aim of the AI Lab is to demonstrate and co-design reliable and market-ready AI solutions in Luxembourg and Europe.

With a team of more than 20 data experts (including 10+ data scientists and 5+ PhDs), they offer advice, design, and implementation services to support their clients throughout their "Artificial Intelligence" journey.

5) Luxembourg City Guided Tour by Luxembourg City Tourist Office (LCTO).

Address: *attendees will go to the meeting point by tram.*

Duration: 2h (15:00-17:00)

Max. visitors: 20

Description:

Discover all the main places of interest, as well as some of the more unusual and secret spots in the former fortress-city. Explore, among others, the exterior of the prestigious Grand Ducal Palace, the Corniche, commonly known as "the most beautiful balcony in Europe", and the Bock rock, the cradle of Luxembourg City.

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6) Luxembourg House of Cybersecurity (HLC)

Address: 122 rue Adolphe Fischer, L-1521 Luxembourg (*transport ensured by organization*)

Duration: 2h (15:00 - 17:00)

Max. visitors: 30

Description :

Luxembourg House of Cybersecurity is the backbone of leading-edge cyber resilience in Luxembourg and aims at capitalising on and further developing innovation, competencies, collaboration and capacity building.

As a central player, LHC is home to all types of cybersecurity-related activities and together with its two hosted centres *CIRCL (Computer Incident Response Center Luxembourg)* and *NC3 (National Cybersecurity Competence Center)*

NC3 Room#42 – Cyberattack Simulation: An innovative and unique concept in Europe, during which “Participants” will be completely immersed - for a maximum of 1 to 2 hours - in a cyberattack and will have to react to it.

CIRCL Visit – Interactive presentation with concrete examples and case studies.

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