Monday, 15 July

07:30 Accreditation and Welcome

08:30

[Auditorium] **Nitesh Chawla** - *Introduction to Representation Learning on Graphs* (1/3)

[Amphitheater 1] **Yulan He** - *Machine Reading Comprehension with Large Language Models* (1/3)

[Amphitheater 2] **Wojciech Samek** - *From Feature Attributions to Next-Generation Explainable AI* (1/3)

10:00 Coffee break

10:30

[Amphitheater 1] **Daniel Cremers** - *Deep Networks for 3D Computer Vision* (1/3)

[Auditorium] **Sergei V. Gleyzer** - *Machine Learning Fundamentals and Their Applications to Very Large Scientific Data...* (1/3)

[Amphitheater 2] **Hermann Ney** - *Machine Learning and Deep Learning for Speech & Language Technology: A Probabilistic Perspective* (1/3)

12:00 Lunch

13:00

[Auditorium] **Nitesh Chawla** - *Introduction to Representation Learning on Graphs* (2/3)

[Amphitheater 1] **Yulan He** - *Machine Reading Comprehension with Large Language Models* (2/3)

[Amphitheater 2] **Wojciech Samek** - *From Feature Attributions to Next-Generation Explainable AI* (2/3)

14:30 Coffee break

15:00

[Amphitheater 1] **Daniel Cremers** - *Deep Networks for 3D Computer Vision* (2/3)

[Auditorium] **Sergei V. Gleyzer** - *Machine Learning Fundamentals and Their Applications to Very Large Scientific Data...* (2/3)

[Amphitheater 2] **Hermann Ney** - *Machine Learning and Deep Learning for Speech & Language Technology: A Probabilistic Perspective* (2/3)

16:30 Short break

16:45 [Auditorium] Local group presentation

17:45 [Auditorium] ML Hackathon's challenges

Tuesday, 16 July

07:55 [Amphitheater 1] Open session 1

08:30

[Auditorium] **Nitesh Chawla** - *Introduction to Representation Learning on Graphs* (3/3)

[Amphitheater 1] **Yulan He** - *Machine Reading Comprehension with Large Language Models* (3/3)

[Amphitheater 2] **Wojciech Samek** - *From Feature Attributions to Next-Generation Explainable AI* (3/3)

10:00 Coffee break

10:30

[Amphitheater 1] **Daniel Cremers** - *Deep Networks for 3D Computer Vision* (3/3)

[Auditorium] **Sergei V. Gleyzer** - *Machine Learning Fundamentals and Their Applications to Very Large Scientific Data...* (3/3)

[Amphitheater 2] **Hermann Ney** - *Machine Learning and Deep Learning for Speech & Language Technology: A Probabilistic Perspective* (3/3)

12:00 Lunch

13:00 [Auditorium] **Katia Sycara** - *Effective Adaptation in Multi-Agent Teams*

14:00 Coffee break

14:30

[Amphitheater 1] **Gustau Camps-Valls** - *AI for Earth, Climate, and Sustainability* (1/3)

[Auditorium] **George Karypis** - *Optimizing LLM Inference* (1/3)

16:00 Short break

16:15

[Amphitheater 1] **Luca Benini** - *Open Hardware Platforms for Edge Machine Learning* (1/3)

[Auditorium] **Peng Cui** - *Stable Learning for Out-of-Distribution Generalization: Invariance, Causality and Heterogeneity* (1/3)

[Amphitheater 2] **Elisa Ricci** - *Continual and Adaptive Learning in Computer Vision* (1/3)

17:45 Hackathon office time

Wednesday, 17 July

07:55 [Amphitheater 1] Open session 2

08:30

[Amphitheater 1] **Gustau Camps-Valls** - *AI for Earth, Climate, and Sustainability* (2/3)

[Auditorium] **George Karypis** - *Optimizing LLM Inference* (2/3)

10:00 Coffee break

10:30

[Amphitheater 1] **Luca Benini** - *Open Hardware Platforms for Edge Machine Learning* (2/3)

[Auditorium] **Peng Cui** - *Stable Learning for Out-of-Distribution Generalization: Invariance, Causality and Heterogeneity* (2/3)

[Amphitheater 2] **Elisa Ricci** - *Continual and Adaptive Learning in Computer Vision* (2/3)

12:00 Lunch

13:00

[Amphitheater 1] **Gustau Camps-Valls** - *AI for Earth, Climate, and Sustainability* (3/3)

[Auditorium] **George Karypis** - *Optimizing LLM Inference* (3/3)

14:30 Coffee break

15:00

[Amphitheater 1] **Luca Benini** - *Open Hardware Platforms for Edge Machine Learning* (3/3)

[Auditorium] **Peng Cui** - *Stable Learning for Out-of-Distribution Generalization: Invariance, Causality and Heterogeneity* (3/3)

[Amphitheater 2] **Elisa Ricci** - *Continual and Adaptive Learning in Computer Vision* (3/3)

16:30 Short break

16:45 [Auditorium] Round table

18:15 Honorary Glass of Port Wine

Thursday, 18 July

07:55 [Amphitheater 1] Open session 3

08:30

[Auditorium] **Frank Hutter** - *AutoML* (1/3)

[Amphitheater 1] **Xinghua Mindy Shi** - *Trustworthy Machine Learning for Human Health and Medicine* (1/3)

[Amphitheater 2] **James Zou** - *Large Language Models and Biomedical Applications* [videorecorded] (1/3)

10:00 Coffee break

10:30

[Amphitheater 1] **Massimiliano Pontil** - *Operator Learning for Dynamical Systems* (1/3)

[Auditorium] **Michalis Vazirgiannis** - *Graph Machine Learning and Multimodal Graph Generative AI* (1/3)

12:00 Lunch

13:00 [Auditorium] **Jiawei Han** - *How Can Large Language Models Contribute to Effective Text Mining?*

14:00 Coffee break

14:30

[Auditorium] **Frank Hutter** - *AutoML* (2/3)

[Amphitheater 1] **Xinghua Mindy Shi** - *Trustworthy Machine Learning for Human Health and Medicine* (2/3)

[Amphitheater 2] **James Zou** - *Large Language Models and Biomedical Applications* [videorecorded] (2/3)

16:00 Short break

16:15

[Amphitheater 1] **Massimiliano Pontil** - *Operator Learning for Dynamical Systems* (2/3)

[Auditorium] **Michalis Vazirgiannis** - *Graph Machine Learning and Multimodal Graph Generative AI* (2/3)

17:45 Hackathon office time

Friday, 19 July

07:55 [Amphitheater 1] Open session 4

08:30

[Auditorium] **Frank Hutter** - *AutoML* (3/3)

[Amphitheater 1] **Xinghua Mindy Shi** - *Trustworthy Machine Learning for Human Health and Medicine* (3/3)

[Amphitheater 2] **James Zou** - *Large Language Models and Biomedical Applications* [videorecorded] (3/3)

10:00 Coffee break

10:30

[Amphitheater 1] **Massimiliano Pontil** - *Operator Learning for Dynamical Systems* (3/3)

[Auditorium] **Michalis Vazirgiannis** - *Graph Machine Learning and Multimodal Graph Generative AI* (3/3)

12:00 Lunch

13:00 Consultation on Hackathon's challenges

DeepLearn 2024

11th International School on Deep Learning

Porto – Maia, Portugal

July 15-19, 2024

UNIVERSIDADE DA MAIA UMAIA

UNIVERSITAT ROVIRA i VIRGILI

U.PORTO FEUP FACULDADE DE ENGENHARIA UNIVERSIDADE DO PORTO

LASI Intelligent Systems Associate Laboratory

IRDTA BRUSSELS - LONDON