

**HPC workshop on
heterogeneous architectures
with SYCL / INTEL ONEAPI**

Report of Contributions

Contribution ID: 1

Type: **not specified**

General public introduction

Monday, November 28, 2022 10:00 AM (2h 30m)

Heterogeneous programming

Session Classification: Morning session

Contribution ID: 4

Type: **not specified**

Program the heterogeneous environment without constructor dependency with SYCL with examples of the code

Monday, November 28, 2022 1:30 PM (3 hours)

Session Classification: Afternoon session

Contribution ID: 6

Type: **not specified**

Overview of Intel oneAPI compute libraries and compatibility tools

Tuesday, November 29, 2022 9:30 AM (2h 30m)

- Presentation of oneDPL, oneTBB, oneMKL compute libraries
- Compatibility Tool (CUDA/SYCL conversion)

Session Classification: Morning session

Contribution ID: 7

Type: **not specified**

Tutorial on using the Compatibility Tool

Tuesday, November 29, 2022 1:30 PM (3 hours)

Session Classification: Afternoon session

Contribution ID: 8

Type: **not specified**

Profiling and analyzing code performance using Vtune/Advisor

Wednesday, November 30, 2022 9:30 AM (2h 30m)

Session Classification: Morning session

Contribution ID: 9

Type: **not specified**

Practical work code optimization

Wednesday, November 30, 2022 1:30 PM (3 hours)

Session Classification: Afternoon session

Contribution ID: **10**Type: **not specified**

Overview of Intel Tools for Artificial Intelligence

Thursday, December 1, 2022 9:30 AM (2h 30m)

For years Intel has been developing tools and approaches to help Data Scientists and AI practitioners solve their everyday problems and accelerate the standard workflows. Come and see how Intel hardware has evolved to include specific features to accelerate AI workloads, including classical machine learning and Deep Learning. Learn how to make your existing AI code run faster on the CPU by using Intel tools and techniques. Discover how to improve your workflows and security.

Session Classification: Morning session

Contribution ID: **11**

Type: **not specified**

Practil work AI

Thursday, December 1, 2022 1:30 PM (3 hours)

Session Classification: Afternoon session