

#### Welcome to Innsbruck!

We (Philipp and Peter) are happy to welcome you to the 18<sup>th</sup> International Symposium on High-Level Parallel Programming and Applications







## Organizational

- Internet Access
  - Eduroam
  - Alternatively, if you do not have eduroam access:
    Network: UIBK / User: C7031210 / Pass: FyUNs7za
- Locations
  - All sessions take place here, in Seminar Room 9
  - Lunch is served at Uni Lounge, at the ground floor
  - More information about the Social Event & Dinner later today





## Program – Day 1 Morning

08:30 Registration Opens

09:00 Welcome and Opening

09:15 Keynote 1

10:15 Coffee Break

10:30 Technical Session 1





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Towards more Flexible and Dynamic HPC Software Stacks for the Post-Exascale Era

Prof. Dr. Martin Schulz





Parallel Programming and Applications

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PHI: a modern C++ library for parallel pattern composition

Enabling Pinning Strategies for Stream Processing Applications on Multicores

Mneme: A Parallel Preprocessing Framework for Large Tabular Datasets





#### Program – Day 1 Continued

12:00 Lunch Break

13:30 Technical Session 2

15:00 Coffee Break

15:20 Social Event Information

18:30 Dinner at 1965m Altitude





#### Program – Day 1 Continued

12:00 Lunch Break

13:30 Technical Session 2

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SkePU-Streaming: Distributed Pipelining of Portable Data-Parallel Skeleton Computations for the Heterogeneous Edge-Cloud Continuum

A Zero-Overhead Transpiler-Based Python Frontend for the Skeleton Programming Framework SkePU

Towards Extreme Scalability of Stencil Applications with Parallel Skeletons





09:00 Keynote 2

10:00 Coffee Break

10:30 Technical Session 3

12:00 Lunch Break

13:30 Technical Session 4

14:30 Closing Statement

15:00 Coffee Break and Farewell





09:00 Keynote 2

10:00 Coffee Break

10:30 Technical Session 3

12:00 Lunch Break

13:30 Technical Session 4

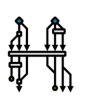
14:30 Closing Statement

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Types as a path from abstract to performance?

Prof. Dr. Gabriele Keller







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14:30 Closing Statement

15:00 Coffee Break and Farewell

High-level Programming of Vulkanbased GPUs through OpenMP

A High-level API for End-to-end Data Compression in Multi-GPU Cluster Applications

SymTensor: Symbolic and Adaptive Tensor Partitioning by Unified Parallelism for Deep Learning





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14:30 Closing Statement

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East of Eden: Parallel Functional Programming in Idris





**Parallel Programming and Applications** 

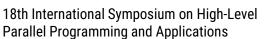
#### Sponsors













#### Enjoy HLPP 2025!

 More information: <a href="https://hlpp-conference.github.io/hlpp-2025">https://hlpp-conference.github.io/hlpp-2025</a>

Any questions?
 Ask us (Philipp and Peter) directly or via <a href="mailto:philipp.gschwandtner@uibk.ac.at">philipp.gschwandtner@uibk.ac.at</a>
 peter.thoman@uibk.ac.at



