Fundamentals of Accelerated Computing with CUDA Python (FACCP)

ID FACCP **Prix** sur demande **Durée** 1 jour

Pré-requis

- Basic Python competency, including familiarity with variable types, loops, conditional statements, functions, and array manipulations
- NumPy competency, including the use of ndarrays and ufuncs
- No previous knowledge of CUDA programming is required

Objectifs

At the conclusion of the workshop, you'll have an understanding of the fundamental tools and techniques for GPU-accelerated Python applications with CUDA and Numba:

- GPU-accelerate NumPy ufuncs with a few lines of code.
- Configure code parallelization using the CUDA thread hierarchy.
- Write custom CUDA device kernels for maximum performance and flexibility.
- Use memory coalescing and on-device shared memory to increase CUDA kernel bandwidth.

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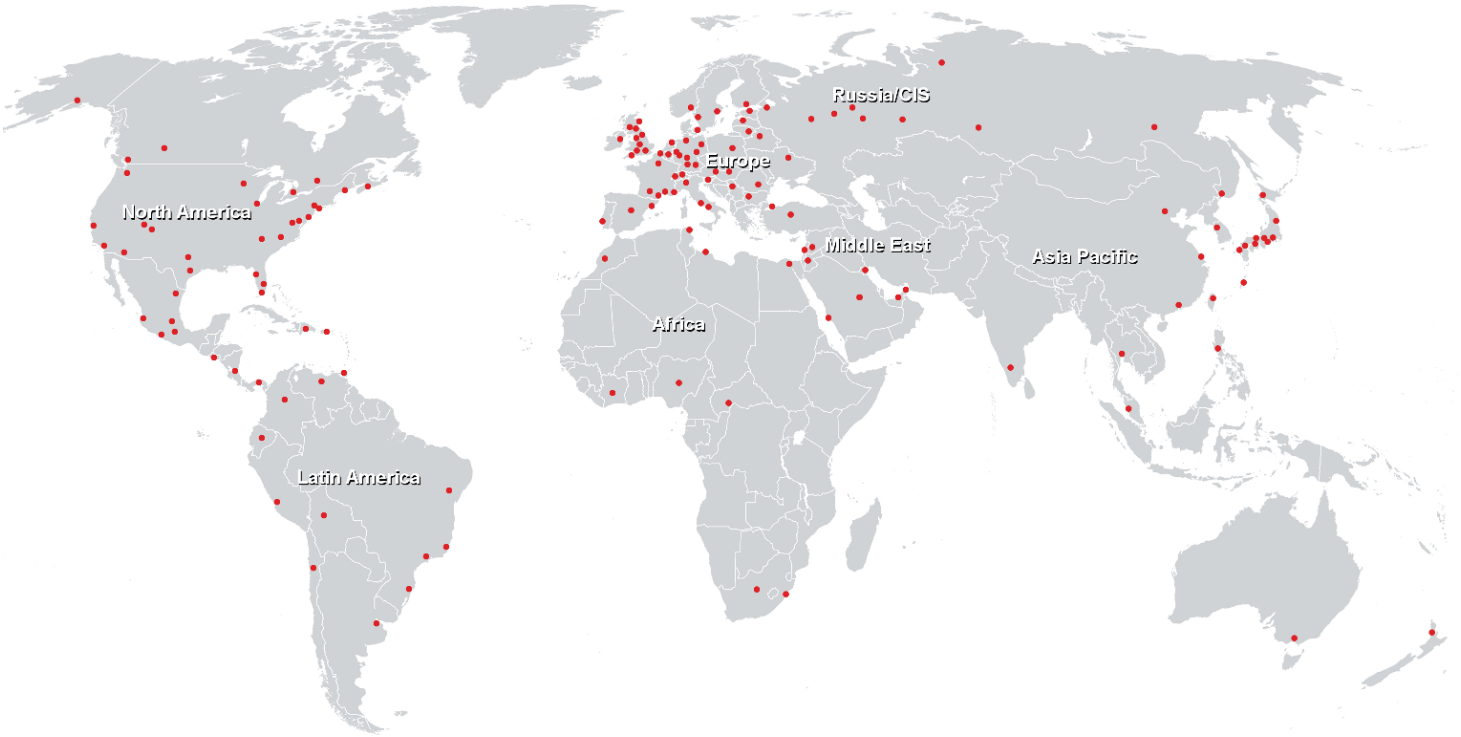
Centres de formation dans le monde entier



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