





















Goals: link between HPC and Al

Transverse action to avoid specific focus from the PCs

Centralize AI usage in NumpEX

- Promote collaboration
- Identify necessary tools

Scientific Animation of AI in NumPEx

- Participate in AAP around AI
- Organize workshops,
- Identify impactful AI for sciences projects

Bring-in External expertise

- · Identify missing expertise
- Promote mini-app/benchmarks

Organization

- Regular meetings -> follow the AI use in the workpackages
- Internal/external experts interview -> identify common work and missing expertise
- Task force on roadmap/AAP -> summarize our exchanges

17/07/2024











Participants





























Identified thematics

From various discussions with experts in and out of NumPEx

- Simulation guided with AI (PC1) reduced models, PINN, ...
- Al for smart I/O (PC3) data compression, in-situ analysis
- Al for exploring large simulation outputs event detection and tracking, parameter inference

- Smart training of large models on supercomputers
- Al for managing large simulations resource allocations, runs, ...
- Al for managing large codebases code translation, automatic testing, ...

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