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Towards Zero-Waste Computing

Tuesday, 25 October 2022 12:00 (30 minutes)

"Computation"has become a massive part of our daily lives; even more so, in science, a lot of experiments and analysis rely on massive computation. Under the assumption that computation is cheap, and time-to-result is the only relevant metric for all of us, we currently use computational resources at record-low efficiency.
In this talk, I argue this approach is an unacceptable waste of computing resources. I further define the goal of zero-waste computing and discuss how performance engineering methods and techniques can facilitate this goal. By means of a couple of case-studies, I will also demonstrate performance engineering at work, proving how efficiency and time-to-result can co-exist.

Experiment context, if any

References

Significance

Presenter: VARBANESCU, Ana Lucia

Session Classification: Plenary