

Neuromorphic Computing in the Era of XPU

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Brain-like parallelism, adaptivity, speed and efficiency – these are the big promises of Neuromorphic Computing.

But over the last few years, Deep Learning went all-in on a different metric: scale.

Can Neuromorphic Computing, a field that has long focused on small, artisan circuits, brain-inspired models and unusual physical substrates, compete on this stage set by large-scale vector processors, GPUs and TPUs?

Or should it be content with smaller applications at the "extreme edge", where low power is crucial?

In this talk, Dr. Leugering wants to show some of the challenges of scaling up neuromorphic systems, discuss potential solutions, and make the case that sometimes, bigger is indeed better.

