

A Changing Landscape

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Abstract

After decades of relative stability, the computing world is now changing at a pace unseen since the early 1990s. There are credible alternatives to Intel architecture CPUs and broader choices in memory technology. But the biggest changes are in the space of potential accelerators, driven largely by the exponential growth in the requirements for Machine Learning training. In this talk, we will discuss our effort to explore this space, including the use of Xilinx FPGAs, the Cerebras Wafer-Scale Engine, and even Noisy, Intermediate-Scale Quantum (NISQ) computing.