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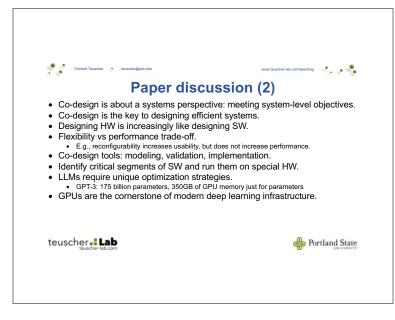


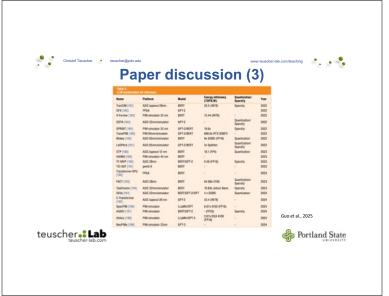
Paper discussion (1)

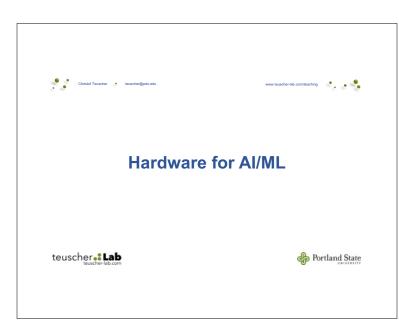
- The difference between these papers shows how the field of co-design has evolved from general principles to specialized approaches for complex AI systems over nearly three decades.
- LLMs face unique challenges compared to traditional deep learning systems, requiring extensive computational resources, high energy consumption, and complex software optimizations.
- · LLMs differ from CNNs in their memory requirements and processing patterns, requiring unique co-design methodologies.

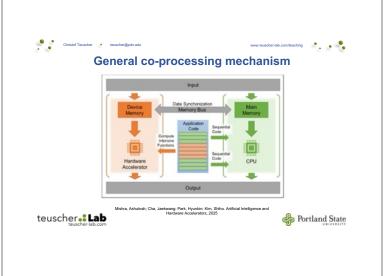
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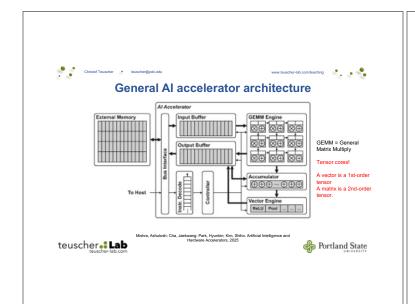


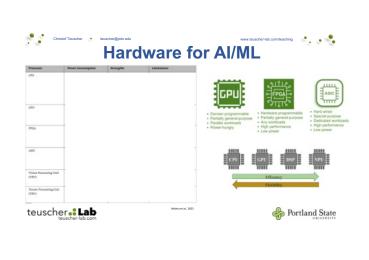


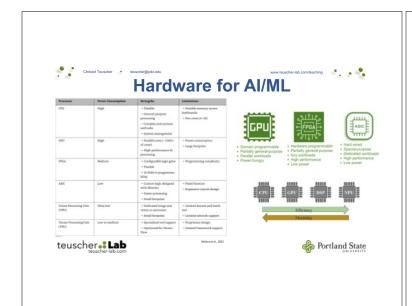


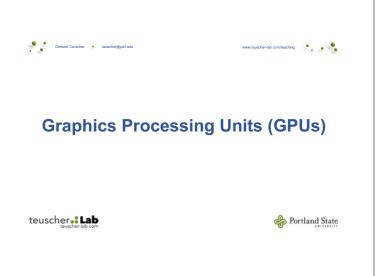


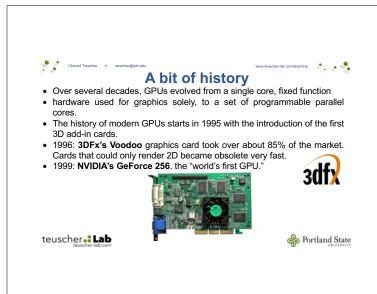


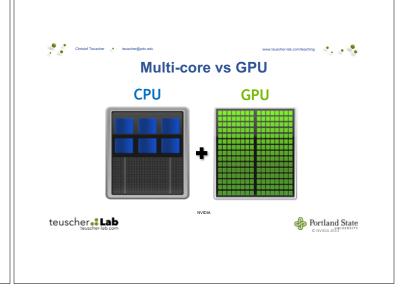


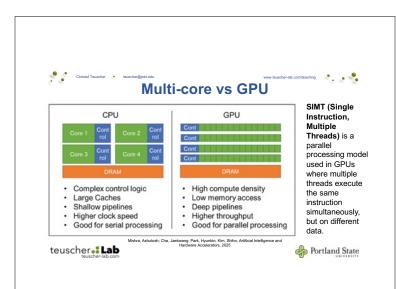


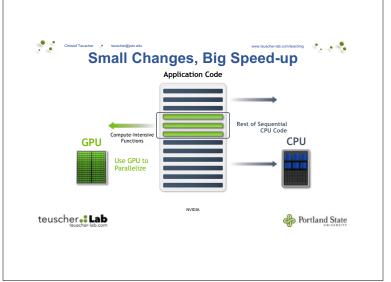


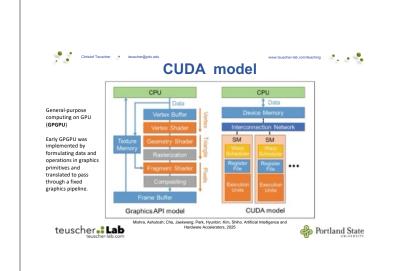


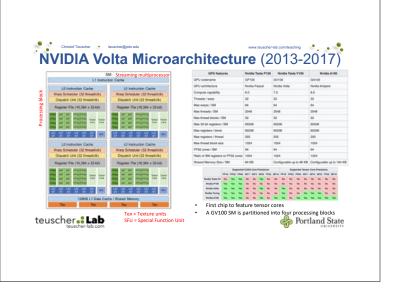


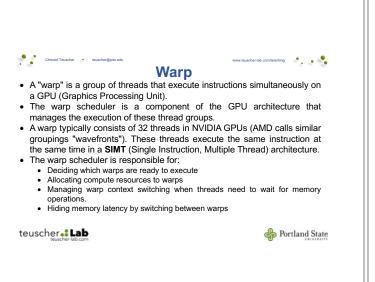


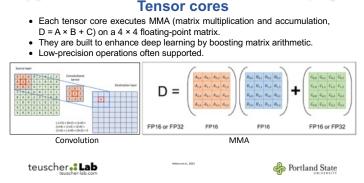


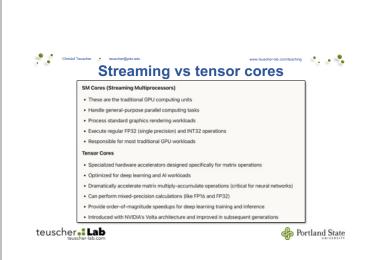














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Consumer-grade GPUs 21760 KB 58304 KB 575 W **GPC: Graphics Processing Clusters**

TPC: Texture Processing Cluster SM: Streaming Multiprocessor

RT: Ray Tracing ROP: Render Output Unit



