

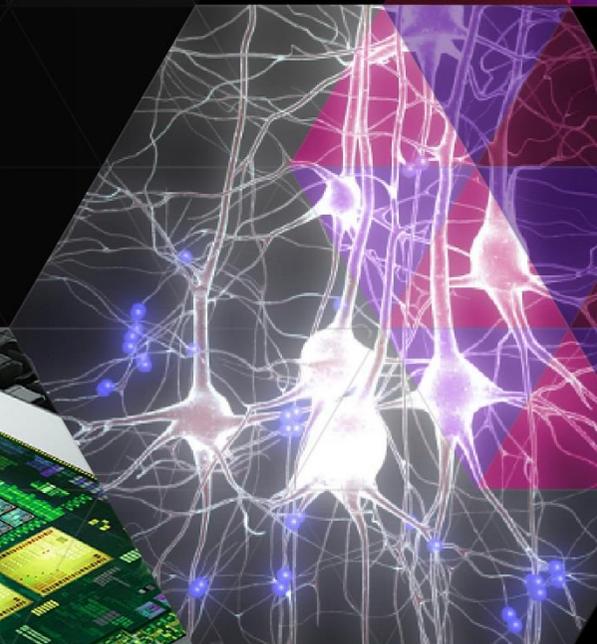


IARPA MICrONS Proposers Day
July 17, 2014

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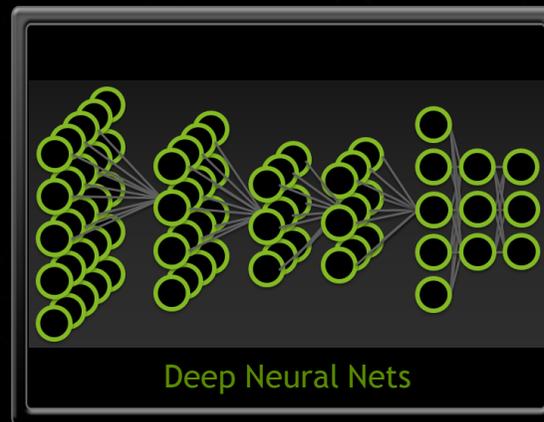
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AREAS OF INTEREST

Parallel computing for:



Machine Learning



Video Enhancement



Signal Processing

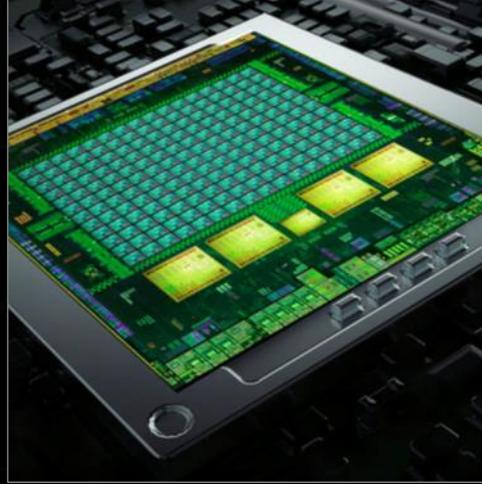


Satellite Imaging

NVIDIA CAPABILITIES



IP



GPUs & SoCs



GRAPHICS CARDS



SYSTEMS

- Inventor of the GPU
- Inventor of CUDA language for high-performance parallel computing.
- Deep experience optimizing parallel code for Machine Learning & Video Analysis
neural nets / support vector machines / clustering / convolutions
- Our GPUs complement CPUs from: Intel / IBM / ARM

NVIDIA WILL SUPPORT

Teams that are applying parallel computing to challenging problems in:

- Machine Learning
- Video Analysis
- Automated search / classification

Looking for partners that are trying to make significant improvements over current performance and advance the state-of-the-art.

CUDA for
Machine Learning



GOOGLE DATACENTER



1,000 CPU Servers
2,000 CPUs • 16,000
cores

600 kWatts
\$5,000,000

STANFORD AI LAB



3 GPU-Accelerated Servers
12 GPUs • 18,432 cores

4 kWatts
\$33,000



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