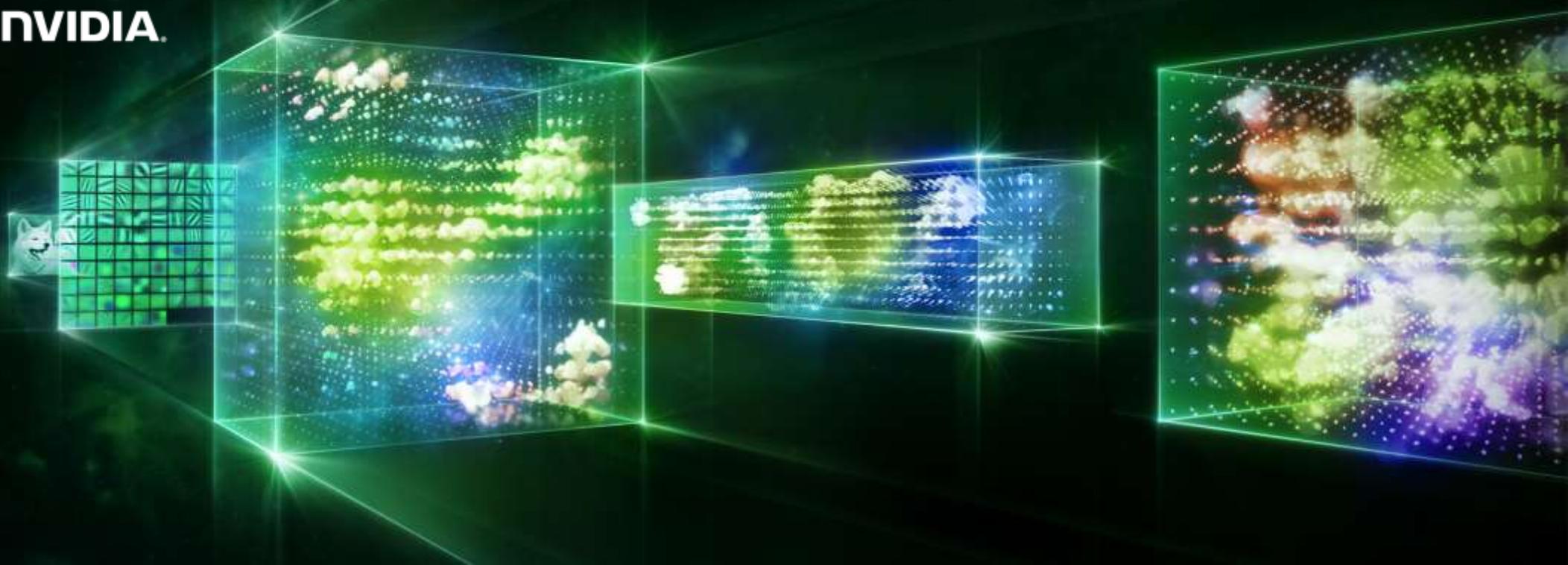


October 6, 2017

# DEEP LEARNING TOP 5

Insights into the new computing model



**DEEP LEARNING IS THE FASTEST-GROWING  
FIELD IN ARTIFICIAL INTELLIGENCE (AI)**

**AS AI TECHNOLOGIES CONTINUE TO IMPROVE, MORE  
COMPANIES ADOPT DEEP LEARNING TO ACCELERATE  
THEIR BUSINESSES...**

# TOP 5

1. Gartner releases the top 10 strategic technology trends for 2018
2. Oracle adds GPU Accelerated Computing to Oracle Cloud Infrastructure
3. Chemistry and physics Nobel Prizes awarded to teams supported by GPUs
4. MIT uses deep learning to help guide decisions in ICU
5. Portfolio management firms are using AI to seek alpha

# GARTNER RELEASES THE TOP 10 STRATEGIC TECH TRENDS FOR 2018

Gartner, Inc. announced its top strategic tech trends and predictions at the 2017 Gartner Symposium this week.

“The first three strategic tech trends explore how AI and machine learning are seeping into virtually everything and represent a major battleground for technology providers over the next five years.

- AI Foundation: Creating systems that learn, adapt, and potentially act autonomously
- Intelligent Apps and Analytics: Virtually every app, application and service will incorporate some level of AI
- Intelligent Things: Physical things that go beyond the execution of rigid programming models to exploit AI... and interact more naturally with their surroundings and with people”



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# ORACLE ADDS GPU ACCELERATED COMPUTING TO ORACLE CLOUD INFRASTRUCTURE



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Oracle announced at Oracle OpenWorld this week it is now offering NVIDIA's P100 GPU instances in its public cloud, with plans to add the more powerful V100 GPUs in the near future.

“This is the first time Oracle has offered access to GPU acceleration, reflecting an industry-wide move to provide access to cloud hardware optimized for artificial intelligence and machine learning.

“The new instances, known as the X7, can also be used for more traditional HPC application, like genomics analysis or physics simulations, but it's pretty clear that Oracle believes its major opportunity with these GPU-accelerated servers is in the AI realm.”

# CHEMISTRY & PHYSICS NOBEL PRIZES AWARDED TO TEAMS SUPPORTED BY GPUS



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It's not every day your work assists someone who wins a Nobel Prize. This week GPU computing did it twice.

On Tuesday, an international team of chemists — Jacques Dubochet, Joachim Frank and Richard Henderson — won the prize for their work with cryogenic electron microscopy, which allows scientists to see the detailed protein structures that drive the inner workings of cells.

On Monday, a trio of American physicists — Rainer Weiss, Barry Barish and Kip Thorne — won science's most prestigious honor for detecting gravitational waves, a phenomenon Albert Einstein predicted more than a century ago.

# MIT USES DEEP LEARNING TO HELP GUIDE DECISIONS IN ICU

If it wasn't for a mysterious hot pepper allergy, Harini Suresh might never have found a way to improve patient care in intensive care units:

“The ICU is a high-stakes, high-demand environment, and doctors can spend only a limited amount of time with each patient. When doctors are dealing with many data sources and data types, computational tools can make a difference.”

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# PORTFOLIO MANAGEMENT FIRMS ARE USING AI TO SEEK ALPHA



Beating the market is hard. Notoriously hard. A large majority of professional portfolio managers, after deducting their fees, don't do it; now, there's pressure on active portfolio management firms to up their game, and they're increasingly using AI to do it.

“In the past, hedge funds would dispatch people to retailers' parking lots to count cars – the simple idea being more cars predicts more sales. Now imagine you could use deep learning to extract in near real time vehicle or ship locations from satellite or drone data on a massive scale.”

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# NVIDIA ANNOUNCES 5 BIG AI INNOVATIONS AT GTC BEIJING

*“Our vision is to enable every researcher everywhere to enable AI for the goodness of mankind. We believe we now have the fundamental pillars in place to invent the next era of artificial intelligence, the era of autonomous machines.” - Jensen Huang, CEO of NVIDIA*

[SEE THE HIGHLIGHTS](#)

