

STORAGE VISIONS® 2018

October 22-23, 2018 at the Hyatt Regency, Santa Clara, CA

AN ENTERTAINMENT STORAGE ALLIANCE™ EVENT



Andy Steinbach, AI Guru

TITLE

Understanding Artificial Intelligence (AI) and its Ramifications

ABSTRACT

This will be remembered as the decade that AI achieved the predictive power of primary sciences such as physics, chemistry, and biology. Modern AI is now able to make to make projections with unprecedented accuracy across a huge number of domains. This is accomplished by using data to learn true underlying mechanisms for each bespoke problem, mirroring the way sciences and engineering are based upon foundational theories, such as quantum mechanics for physics, the periodic table for chemistry, and DNA/RNA for biology.

This talk presents a technically-inspired explanation for newcomers of how the recent breakthroughs in AI enable this capability, how they are being used, and shows that there will be a generational-level revolution in the coming decades. Numerous application examples demonstrate these new AI techniques, and how they are transforming domains such as manufacturing, medicine, financial services, cybersecurity, retail and online marketing, and even physical sciences.

We cover how Big Data is the fuel of this new AI, allowing enterprises to tap more deeply into the knowledge locked in their data, in ways often not possible with traditional data analytics. We peer into the future implications for data storage, revealing likely secular trends that will emerge, driven by this revolution shaping the way data is utilized by future enterprises.

BIOGRAPHY

Andy Steinbach is a device physicist, with a PhD in Physics from the University of Colorado, Boulder, working on quantum electronics technology that was the precursor to devices now used in quantum computation. After an NSF-NATO Postdoctoral Fellowship in Paris, Andy designed high-speed III-V optoelectronic semiconductor devices for JDS Uniphase. Most recently Andy turned his focus to Artificial Intelligence as Senior Director of AI in Financial Services at NVIDIA Corporation, and founding the team driving transformative application of AI in microscopy at Carl Zeiss as a Senior Director.

Earlier in his career Andy directed technology teams overseeing the product definition, strategy, and execution of some of the world's most advanced applications of technology, including: the highest spatial and elemental resolution microscopes in the world, solutions for atomic resolution of catalytic processes, 3D CT of multi-phase fluid flow, and novel materials for application of superconductivity to next generation supercomputing. During this period, he worked for Intel, KLA-Tencor, FEI Company, and Intermolecular.

Andy is currently working on launching a startup applying AI to enterprise applications that will emerge very shortly from stealth mode.