

AI  **GOVERNMENT**

THUR. JAN. 21, 2021

VIRTUAL EVENT

11:30AM-1:00PM EST

**ARTIFICIAL INTELLIGENCE FOR PAST
PERFORMANCE: HOW EMERGING
TECHNOLOGY IS ADVANCING GOOD
GOVERNMENT**



**SCOTT SIMPSON
POLLY HALL**

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HOW MACHINES THINK
(& why government executives should care)

What makes Artificial Intelligence (AI) a unique technology is its ability to "learn" from experience. Instead of programming applications with predefined rules to perform specific functions, data is used to teach the application to complete a desired task. This underlying approach - machine learning - relies on large scale processing of structured or unstructured data to build intelligence, enabling the computer to make sense of data, recognize patterns and ultimately to support desired actions or conclusions.

Given the importance of machine learning within AI, knowing how it operates can be valuable to meet the non-data scientist's understanding how they can use AI and how the technology may evolve in the near future. Here, we discuss different approaches to machine learning, potential mathematical models and problem types, and how to train and test specific algorithms.

AI and Me

Unlock AI's full potential through human-machine collaboration

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LESSONS FROM EXPLORING AI IN GOVERNMENT

Federal leaders reflect on the rise of artificial intelligence

Artificial Intelligence (AI) is emerging as a disruptive force within federal government. The coming of AI will bring with it new opportunities around mission realization, operational efficiency and citizen services. But AI also presents new challenges, including complex workforce issues and questions around

THE COMING AI PRODUCTIVITY BOOM

And how federal agencies can make the most of it

SMARTER WAYS TO SERVE

Applied Customer Engagement⁺ for Federal

HOW COMPUTER VISION WILL HELP GOVERNMENT SEE FURTHER

WHEN IT COMES TO IMAGERY, volume is both a blessing and a curse. Thanks to satellites, drones, dash cams and body worn cameras, and IP-enabled monitoring and surveillance, government and commercial enterprises are enjoying a boom time in terms of both still images and video footage. New York City alone is expected to roll out 30,000 body worn cameras last year, while sales of IP video cameras are growing at 22.0 percent a year. For federal agencies, visual data delivers situational awareness, early warning, identity information, operational insight and a host of other valuable results.

At the same time, this sheer avalanche of information threatens to overwhelm traditional analytics approaches. As the intelligence community already knows, and others in government are just learning, it's simply beyond the ability of humans to search and evaluate the mountain of visual data. The human eye cannot pick up every subtle cue; human attention cannot necessarily be focused on task for as many hours as the job requires; nor is the present analyst workforce adequate to keep pace with the exploding demand. Something better is needed to assist humans, to help them focus on the important and manage the rest.

A sub-specialty within the broader field of Artificial Intelligence (AI), "computer vision" promises to cut through the clutter. With machines trained to understand visual images in the same way as humans do, government agencies could better leverage their investment in visual data while empowering their own processes and freeing human talent for higher-level work.

While computer vision has been evolving for some time, it has lately come to the fore thanks to new computing architectures in storage, data and higher processing power. Here we will give a high-level overview of the technology behind computer vision, the look at how computer vision is being deployed in the private sector, discuss emerging federal use cases, and share a path forward for government agencies looking to make the most of this fast emerging capability.

1 HOW COMPUTER VISION WILL HELP GOVERNMENT SEE FURTHER

Compelling Benefits, Common Misconceptions

PUTTING INTELLIGENT AUTOMATION TO WORK FOR FEDERAL

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Cognilytica is an AI focused research, advisory, and education firm. We produce and host the popular AI Today podcast and coordinate the monthly AI in Government event. We also regularly write for Forbes and TechTarget.



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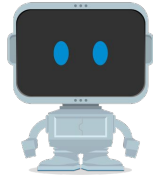
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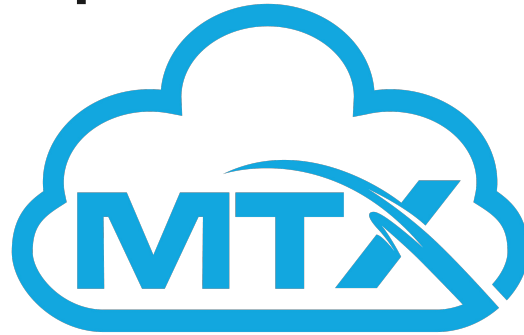


Better engage and connect with citizens, such as chat-bots that enable 24/7 access.



Provide excellent services while retaining public trust via public-private collaboration

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Today's Presentation:



THUR. JAN. 21, 2021

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11:30AM-1:00PM EST

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**"MACHINE LEARNING
FROM THE TRENCHES"**



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