Wednesday, June 26, 2024

12:00 PM - 12:20 PM

Leveraging Data Analytics to Accelerate the OODA Loop for Enhanced Mission Outcomes in Adversarial Environments

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Abstract:

In the ever-evolving landscape of modern warfare and security challenges, the ability to effectively observe, orient, decide, and act (OODA loop) is paramount for mission success.

This abstract explores how harnessing data analytics, including Generative AI, can accelerate the OODA loop and enable organizations to align, adapt, and accelerate mission outcomes against adversaries. By integrating advanced data analytics techniques such as machine learning, predictive modeling, and real-time data processing, organizations can enhance their situational awareness, rapidly assess threats, and make informed decisions in dynamic environments. Moreover, leveraging data analytics enables proactive adaptation to changing circumstances, ensuring agility and resilience in the face of evolving threats. This talk will cover the tangible benefits of incorporating data analytics into the decision-making processes of defense and security organizations such as DISA, ultimately leading to more effective mission execution and a competitive edge against adversaries.