

Wednesday, February 11

11:40 AM – 12:00 PM

New Technology for New Threats: Accelerating Maritime Intelligence Through Onboard Autonomy

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Abstract:

This presentation explores the evolving maritime threat landscape and the challenges it presents to Intelligence, Surveillance, and Reconnaissance (ISR) operations. It emphasizes the role of onboard autonomy in enhancing maritime ISR capabilities, enabling faster decision-making, persistent coverage, and operational agility. By examining real-world applications and shifting the ISR workflow paradigm, the session demonstrates how automation and autonomy are transforming maritime operations.

Key Points:

- Overview of emerging maritime threats and the increasing complexity of the maritime ISR environment.
- Examination of limitations in traditional ISR workflows and the need for faster, more adaptive solutions.
- Exploration of autonomous technologies that enhance onboard data processing, threat detection, and real-time decision-making.
- Discussion on how automation unlocks new operational capabilities such as persistent surveillance, reduced latency, and multi-domain integration.
- Presentation of real-world case studies or examples where autonomy has improved ISR outcomes.
- A call to rethink ISR workflows, leveraging onboard autonomy to shift from reactive to proactive maritime intelligence.

