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AI and nuclear decision-making

This lesson will focus on the implications of AI in nuclear decision-making processes, exploring how different AI-driven applications, such as situation monitoring, adaptive planning, force management, and decision-support can introduce novel escalation pathways. It will examine the bilateral and multilateral platforms where discussions on AI and nuclear decision-making have already started, analyzing how and where these conversations can be expanded to ensure greater inclusivity across non-nuclear states and other nuclear-armed states.

Suggested references

Assessing the implications of integrating AI in nuclear decision-making systems in [Artificial Intelligence, Non-proliferation and Disarmament: a Compendium on the State of the Art](#)

[Beyond Human-in-the-Loop: Managing AI Risks in Nuclear Command-and-Control](#)

[AI and nuclear command, control and communications: P5 perspectives](#)

[Navigating cyber vulnerabilities in AI-enabled military systems](#)

Short Bio

Alice Saltini is a Non-Resident Expert on AI at the James Martin Center for Nonproliferation Studies (CNS) and an AI-Nuclear Policy Advisor at the Institute for Security and Technology (IST), specializing in the impact of AI on nuclear decision-making. She advises governments and international organizations on managing AI-related nuclear risks, focusing on mitigating the challenges of integrating AI into military and nuclear weapons systems by translating complex technical concepts into actionable policy insights. She has published extensively on military applications of AI and has developed a general-purpose risk assessment framework for analyzing AI and nuclear risks.