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### **Anti-AI Countermeasures on the Battlefield**

This lecture explores the legal implications of anti-AI countermeasures ("Counter-AI") on the battlefield. Counter-AI techniques are designed to provoke glitches, performance drops or hallucinations in enemy AI systems, but how is responsibility to enact precautionary measures distributed between the system owner and hacker if such attacks are carried out? In this interactive lecture, students are introduced to anti-AI countermeasures and their impact on legal compliance, and subsequently invited to participate in a competitive role-playing scenario where they can explore firsthand the interwoven legal, technical and strategic elements that come into play when deciding how to attack or defend against AI systems on the battlefield.

### **Anti-AI Countermeasures on the Battlefield**

*(Interactive exercise)*

#### *Required references*

Cotovio, V. & Mezzofiore, G. (2023). Russia is covering aircraft with car tires, potentially to protect them from Ukrainian drones.

<https://edition.cnn.com/2023/09/06/europe/russia-aircraft-car-tires-ukraine-drones-intl-hnk/index.html>

Kwik, J. (2024). Anti-AI Countermeasures in Warfare: Terra Incognita for IHL?

<https://lieber.westpoint.edu/anti-ai-countermeasures-warfare-terra-incognita-ihl/>

#### *Recommended reference*

Łukasz Kamieński (2024). Beyond defense: a call to arms for cognitive warfare

<https://www.pennccerl.org/the-rule-of-law-post/beyond-defense-a-call-to-arms-for-cognitive-warfare/>

### **Short Bio**

Jonathan Kwik is a researcher in international law at the Asser Institute attached to the ELSA Lab Defence project. He specialises in techno-legal research on the military use of artificial intelligence (AI) related to weapons, the conduct of hostilities, and operational decision-making. He obtained his doctorate (cum laude) from the University of Amsterdam on the lawful use of AI-embedded weapons at the operational level. He recently published the book, *Lawfully Using Autonomous Weapon Technologies*. He currently sits as a member of the Board of Experts of the Asia-Pacific Journal of International Humanitarian Law (APJIHL). He is an academic partner of the International Committee of the Red Cross (ICRC). He taught international humanitarian law and public international law at the Soegijapranata Catholic University in Semarang, Indonesia. He has published extensively in the fields of international humanitarian law, targeting law, AI modelling, (international) criminal responsibility and post-conflict reconciliation.