



College of Europe  
Collège d'Europe



Natolin



ICRC

## NEW TECHNOLOGIES ON THE BATTLEFIELD: FRIEND OR FOE?

### 21<sup>st</sup> Bruges Colloquium Virtual Edition

12-16 October 2020

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#### **Simultaneous translation into French / English / Russian**

*Traduction simultanée en anglais/français/russe*

**Monday 12 October**  
**14:00- 15:45 (CET)**

#### **Opening Statements**

Federica Mogherini, Rector of the College of Europe  
Gilles Carbonnier, Vice-President of the ICRC

#### **Cyber operations during armed conflict**

*Les cyber-opérations en temps de conflit armé*

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14:15 - 14:25 Introduction to the topic by the Chair: **Knut Dörmann**, ICRC Brussels

Topics to be discussed:

1. *Thresholds and applicability of IHL rules*
2. *Cyber operations and the notion of “attacks” and “objects” under IHL*
3. *Increasing transparency and legal capacity on IHL issues in cyberspace*

14:25 - 14:35 Speaker: **Vera Rusinova**, High School of Economics University, Moscow

14:35 - 14:45 Speaker: **Hongsheng Sheng**, Shanghai University of Political Science and Law

14:45 - 14:55 Speaker: **Duncan Hollis**, Temple Law School

14:55 – 15:45 Moderated Discussion

**Tuesday, 13 October**  
**14:00- 15:30 (CET)**

**The use of Autonomous Weapon Systems: a challenge to the international rule of law?**  
*L'utilisation des systèmes d'armes autonomes : un défi à l'ordre juridique international ?*

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14:00 - 14:10 Introduction to the topic by the Chair: **Maya Brehm**, ICRC Geneva

Topics to be discussed:

1. *Military use of AWS must comply with International Law and, in particular with IHL*
2. *Ethical implications of the use of AWS*
3. *What are the elements of human control and how can they inform the setting of limits on autonomous weapon systems?*

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14:10 - 14:20 Speaker: **Col. Rudolph Stamminger**, French Ministry of Defense

14:20 - 14:30 Speaker: **Thompson Chengeta**, University of Southampton

14:30 - 14:40 Speaker: **Netta Goussac**, SIPRI

14:40 – 15:30 Moderated Discussion

**Wednesday, 14 October**  
**14:00- 15:30 (CET)**

**Artificial Intelligence and machine learning**  
*Intelligence artificielle et apprentissage automatique*

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14:00 - 14:10 Introduction to the topic by the Chair, **Neil Davison**, ICRC Geneva

Topics to be discussed:

1. *AI supported decision-making in warfare: far-reaching implications*
2. *What are the key IHL questions raised by AI-supported decision-making?*
3. *Efforts to govern (military applications of) AI*

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14:10 - 14:20 Speaker: **Edward Hunter Christie**, NATO

14:20 - 14:30 Speaker: **Dustin Lewis**, Harvard University

14:30 - 14:40 Speaker: **Pauline Warnotte**, UNIDIR

14:40 – 15:30 Moderated Discussion

**Military space operations: constraints under international law and potential humanitarian consequences**

*Les opérations militaires dans l'espace extra-atmosphérique en droit international et leurs potentielles conséquences humanitaires*

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14:00 - 14:10 Introduction to the topic by the Chair: **Heather Harrison Dinniss**, Swedish Defense University

Topics to be discussed:

1. *The IHL rules governing the conduct of hostilities in relation to outer space*
2. *International legal framework governing military space operations: Need for more clarity, better compliance or more regulation?*
3. *Setting the scene: Potential humanitarian consequences*

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14:10 - 14:20 Speaker: **Wen Zhou**, ICRC Geneva

14:20 - 14:30 Speaker: **Maj. Mickael Dudenloup**, French Ministry of Defense

14:30 - 14:40 Speaker: **Jessica West**, Ploughshares project

14:40 – 15:30 Moderated Discussion

Friday, 16<sup>th</sup> October  
14:00- 15:45 (CET)

**Session Five: New technologies and humanitarian action**  
*Cinquième session: Nouvelles technologies et action humanitaire*

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14:00 - 14:10 Introduction to the topic by the Chair, **Massimo Marelli**, ICRC Geneva

Topics to be discussed:

1. New technologies. Why it is relevant and useful in a humanitarian context?
2. Technology framework: what is authentication and identification, what is functional identity and foundational identity and why does it matter?
3. Data protection provisions framing the digital identity and biometrics (and the main problematic areas)
4. A civil society perspective
5. A donor's perspective

14:10 - 14:15 Speaker: **Edgardo Yu**, Technology Division, WFP

14:15 - 14:20 Speaker: **Prof. Carmela Troncoso**, EPFL

14:20 - 14:25 Speaker: **Wojciech Wiewiórowski**, European Data Protection Supervisor

14:25 - 14:30 Speaker: **Alexandrine Pirlot de Corbion**, Privacy International

14:30 - 14:35 Speaker: **Catherine Kayser**, Luxembourg Ministry of Foreign Affairs

14:40 – 15:30 Moderated Discussion

15:30-15:45 **Closing Statement by Knut Dörmann**, ICRC Brussels