United Nations
Interregional Crime and Justice
Research Institute

Artificial Intelligence and Robotics at the United Nations

Irakli Beridze
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UNICRI

The Hague, 28 November 2016

Military Technology 2003

RQ-7 Shadow

Few units

Unmanned aerial vehicle

iRobot's PackBot

0 units

Unmanned Ground Vehicle

Military Technology 2016

MQ-9 Reaper

Tens of Thousands

Unmanned aerial vehicle

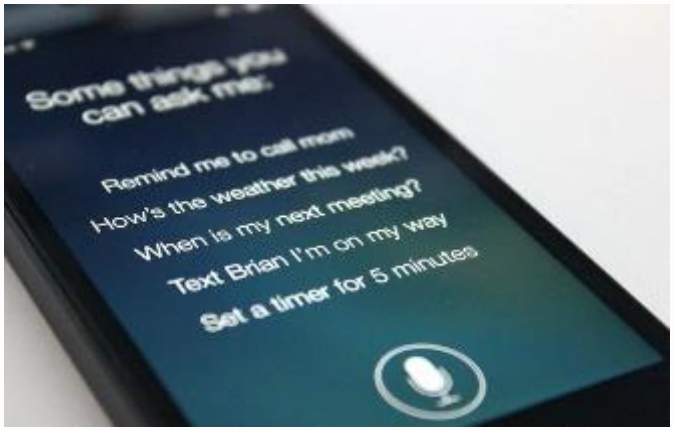
iRobot's PackBot

Tens of Thousands

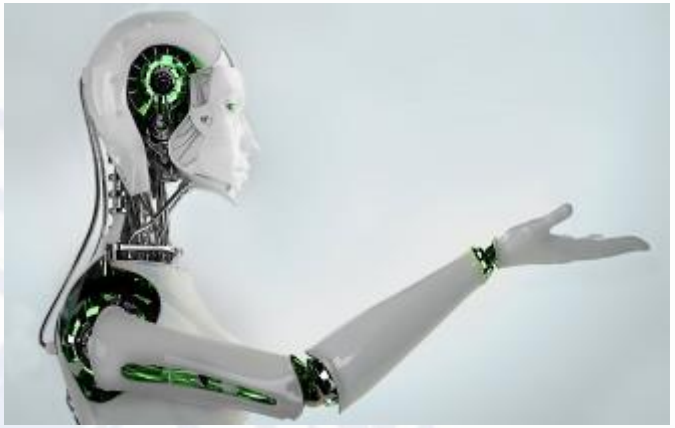
Unmanned Ground Vehicle

Civilian Technology in 2003

Civilian Technology in 2003



The future?



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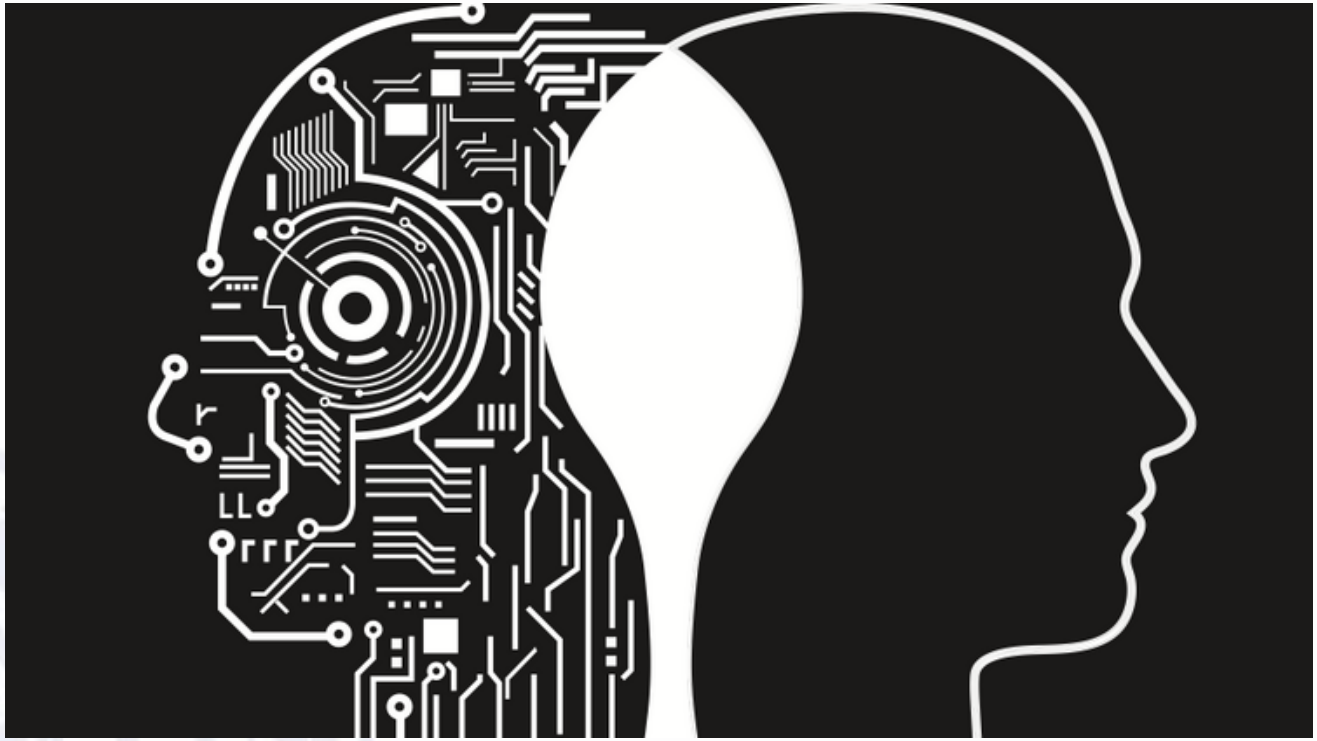
“More things will look like science fiction”
- Andrew McAfee, MIT

Risk-Benefit Duality



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Transforming our world: 2030

AI contribution to all UN SDGs

Comprehensive analysis to support small producers to find the best markets for their products

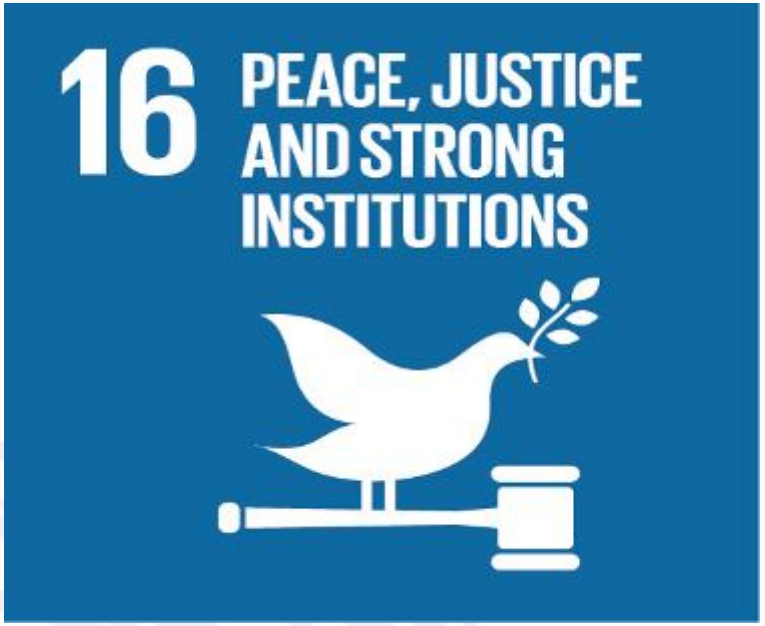
AI contribution to UN SDGs

Analyze trends, make projections about disease outbreaks-to eradicate disease and reduce mortality rates

AI contribution to UN SDGs

Analyze patterns of student learning and prescribe individual learning plans to improve results

AI contribution to UN SDGs



Analyze crisis information following or prior to a natural or man-made disaster, allowing appropriate responses to be made

New opportunities?

Advances in AI and robotics can play an important role for CWC, for example:

Inspections in areas too dangerous (contaminated or unfriendly) for OPCW staff or too hard to reach

New Risks?

Tokyo, Japan
April, 2015

Drone carrying a radioactive material was landed on top of the roof of the Japanese prime minister's office

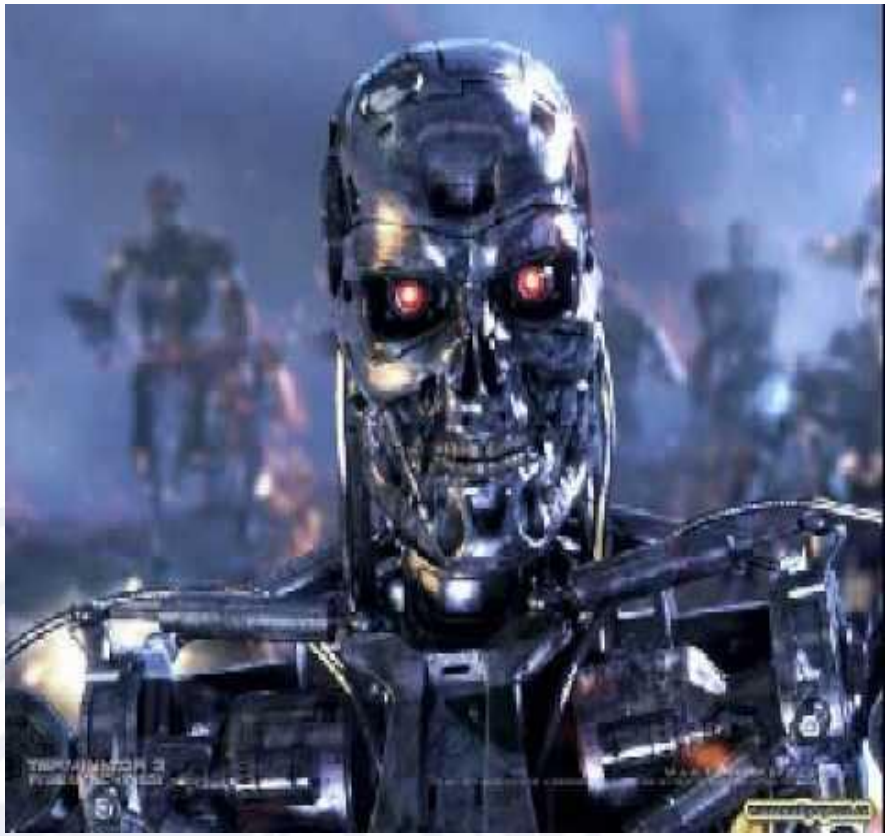
New Risks?

Various locations in France, October, 2014 – February, 2015

French authorities report multiple occasions of drone flying over nuclear facilities in France at night.

The incident spark independent report by British nuclear expert, warning British authorities that Britain's nuclear facilities are at serious risk of terrorist attacks involving drones.

An Existential Risk?



International legal framework

AI and Robotics at UNICRI

UNICRI AI and Robotics Programme launched in 2015, to:

- develop an **international infrastructure** to identify and understand risks and benefits

- facilitate **stakeholder discussions** (technical experts, policy makers, private sector, academia, etc)

- develop appropriate and informed **international and national approaches** to minimize risks and maximize benefits, contributing to United Nations Sustainable Development Goals (SGDs)

UNICRI Centre on AI and Robotics

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UNICRI Centre on AI and Robotics in the Hague

… To enhance understanding of the risk-benefit duality of AI and robotics through improved coordination, knowledge collection and dissemination, awareness-raising and outreach activities

UNICRI Centre on AI and Robotics

... and to provide policy makers with improved knowledge and understanding so that discussion are informed and any resulting policies are balanced

At the General Assembly

Discussing emerging technologies with academia (Prof. Max Tegmark and Prof. Nick Bostrom) in October 2015 and the private sector (Landon Downs, 1Qbit) in October 2016

At the General Assembly

UN Group of Friends of CBRN Risk Mitigation and Security Governance

The Permanent Missions of Georgia, the Kingdom of Morocco and the Republic of the Philippines to the United Nations present their compliments to the Permanent Missions of Member States to the United Nations and have the honor to inform of the creation of the **United Nations Group of Friends of Chemical, Biological, Radiological or Nuclear (CBRN) Risk Mitigation and Security Governance** in October 2015 to address and promote various CBRN-related topics at the UN.

Enclosed is the Group's Objectives and Operation paper.

The three Missions, as the Co-Chairs, have the further honor to invite Member States which are participating in the CBRN Centres of Excellence Risk Mitigation Initiative, and which can accept this Objectives and Operation paper, to join the Group of Friends.

Interested Member States may signify their intention to join to any of the three Missions by Monday, 07 December.

The Group will convene its first meeting at the Ambassadorial level on Tuesday, 08 December 2015, from 3:00 to 4:30 p.m. at Conference Room 6.

The Permanent Missions of Georgia, the Kingdom of Morocco and the Republic of the Philippines to the United Nations avail themselves of this opportunity to renew to the Permanent Missions of Member States to the United Nations the assurances of their highest consideration.

23 November 2015
New York City

"… enhancing international awareness of the current and future capabilities of artificial intelligence and autonomous robotics"

Ambassador Imnadze,
Chair of the UN Group of Friends
New York, 07 December 2015

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At the OPCW

HSD
Emerging Technologies and the CWC:
Autonomous Systems and Artificial Intelligence
20th Conference of States Parties to the Chemical Weapons Convention
Monday 30 November 2015
13:00-14:45
Europe Room
World Forum
The Hague
Drone Demonstration and Light Lunch available at 12:30

Training media

Specialized training for journalists and media professionals on Robotics and Artificial Intelligence

The Hague, Clingendael Institute,
23-24 March 2016

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Training media and security

Next addition: 6-7 February, 2017, University of Cambridge

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In collaboration with and hosted by

Centre for Risk Studies
UNIVERSITY OF CAMBRIDGE
Judge Business School

Thank you!

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