

A glance at the week ahead

Militarized AI and Cyber Conflicts - Peace and Stability - Challenges and Risks

Diego Latella, Gian Piero Siroli, Guglielmo Tamburrini
(Directors of the 63rd ISODARCO Course)



AI's expanding role into

- military decision support systems
 - nuclear command, control and communication (NC3)
 - autonomous weapons systems
 - intelligence, surveillance and recognition
 - information warfare
 - cybersecurity
 - bio-chemical weaponry
 - the new military-industrial complex
-
- ✓ Required thematic breadth - in view of AI pervasiveness
 - ✓ Unavoidable incompleteness - by the same token

AI-related risks for peace and stability

- Military motivations
 - AI speed, high-volume data processing, increasing weapons autonomy
- Downsides
 - Limitations and vulnerabilities of AI systems
 - Pitfalls of human-AI interaction
 - Unpredicted interactions between AI-powered agents
- Hazards and risks
 - IHL and IHRL violations
 - Human agency erosion
 - Nuclear deterrence erosion
 - Armed conflict trigger/escalation

Cyber conflicts themes, issues, risks

- Increasing automation, speed, volume of cyberattack/defence
- Increasing cybervulnerabilities of military ICT systems
- Cyber threats to NC3
- Uncertainty and mistrust in one's own systems
- Attribution issues, escalation risks and catalytic conflicts
- Impact of cyberoperations across warfare domains
- Legality of cyberoperations and countermeasures



People at the 63rd ISODARCO Course

- Country
 - Belarus, Belgium, Brazil, Canada, Cyprus, Czech Republic, Egypt, Germany, Great Britain, India, Indonesia, Italy, Mexico, Mongolia, Netherlands, Nigeria, Norway, Pakistan, Poland, China, Russia, Singapore, South Africa, South Korea, Spain, Sweden, Turkey, Ukraine, USA
- Education
 - Automation Engineering, Biology, Business Administration, Chemistry, Computer Science & Information Systems, Economics, Electrical Engineering, History, International Relations, Law, Literature, Political Science, Physics, Mathematics, Philosophy, Terrorism Studies, Strategic Studies



- Raising stakeholders' awareness about AI and cyber risks
- Fostering dialogue, trust and confidence building measures
- Introducing norms to restrain militarized AI and cyberoperations
- Applying AI to arms control verification
- Sharing AI and cybersecurity capacity building
- Addressing dual-use and threats by non-state actors

Lecture(r)s

- Intro to AI
 - Marco Gori (IT)
- Digital economies and the new military-industrial complex
 - Dario Guarascio (IT)
- AI's pervasive impact on military policy
 - Steven Miller (US)
- Cybersecurity, cyberwarfare, and cyberintelligence
 - Bart Jacobs (NL), Herb Lin (US), Maria Vanina Martinez (ES), Danielle Yeow (SG)

Lecture(r)s

- AI in NC3
 - Alexey Arbatov (RU), Francesca Giovannini (US), Herb Lin (US), Alice Saltini (US), James Stokes (NATO), Jingdong Yuan (SE), Zhu Jianyu (CN)
- AI in biosecurity
 - Anastasia Malygina (RU)
- AI in warfare operations and decision-making
 - Daniele Amoroso (IT), Peter Asaro (US), Jonathan Kwik (NL), Maria Vanina Martinez (ES)