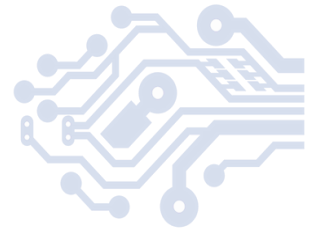


the 2019 innovations dialogue.



DIGITAL TECHNOLOGIES & INTERNATIONAL SECURITY

19 August 2019 | 9:00 – 18:00
Palais des Nations, Geneva, Conference Room XVII

8:30 – 9:00

Registration and Coffee

9:00 – 9:30

Opening Remarks

Tatiana Valovaya, *Director-General, United Nations Office at Geneva*
Ambassador Pankaj Sharma, *India*
Ambassador Peter Andreas Beerwerth, *Germany*
Brigadier General H.E. Hassan Saleh Al Nisf, *Qatar*

9:30 – 10:20

Digital Innovations and the Global Security Landscape

How will digital technologies transform international security? What are the characteristics of these innovations that make them challenging to consider through an international security, arms control and disarmament lens?

Dawn H. Thomas, *CNA and Cybersecurity Futures 2025 Project*
Lim May-Ann, *Asia Cloud Computing Association*
Kerstin Vignard, *moderator*

10:20 – 10:30

Coffee “to go”— move to Tech Track rooms

10:30 – 12:15

Tech Track Break-out Sessions

These interactive sessions will give participants an initial appreciation of the risks and benefits of these innovations. What are they? How do they work? What implications does their development and diffusion have for international security and stability?

❖ **Track 1: Quantum Computing**

Patrick Towa Nguenewou, *IBM Research*
Elsa B. Kania, *Center for a New American Security*

❖ **Track 2: Distributed Ledger Technologies (including blockchain)**

Suzana Maranhão, *ITU Focus Group on Applications of DLT*
Giacomo Persi Paoli, *UNIDIR*

❖ **Track 3: Internet of Things (IoT)**

Jan-Peter Kleinhans, *Stiftung Neue Verantwortung*
Madeline Carr, *PETRAS National Centre of Excellence in Cybersecurity of the IoT*

12:15 – 12:20

Return from Tech Tracks



The Innovations Dialogue responds to the request of Member States in resolution 73/32 that UNIDIR convene a one-day focused informal seminar on the role of science and technology in the context of international security and disarmament

- 12:20 – 13:00** **Fireside Chat: Security Implications of Artificial Intelligence Beyond Weapon Systems**
A moderated discussion on how AI and machine learning may impact:
- ❖ *prevention and escalation management of cyber conflicts*
 - ❖ *strategic command and control systems*
 - ❖ *data analysis for strategic decision-making*
- Kobi Leins**, University of Melbourne
Arun Sukumar, Observer Research Foundation
Lydia Kostopoulos, moderator
- 13:00 – 15:00** **Lunch Break** (*sandwich lunch provided*)
- 15:00 – 15:15** **Brief report backs from the Tech Tracks — insights and open questions**
- 15:15 – 16:30** **Digital Innovations for International Security and Disarmament**
This panel will explore current or near-term beneficial applications of digital innovations, through concrete examples and real use cases.
- Quentin Ladetto**, Armasuisse
Elina Martikka, Finnish Radiation and Nuclear Safety Authority
Benjamin Ang, Nanyang Technological University
Alejandro Hernandez, Organisation for the Prohibition of Chemical Weapons
Giacomo Persi Paoli, moderator
- 16:30 – 16:45** **Coffee Break**
- 16:45 – 16:55** **Keynote Address**
Izumi Nakamitsu, High Representative for Disarmament Affairs (by VTC)
- 16:55 – 17:50** **Concluding Discussion: International Security in the Digital Age**
An open moderated discussion on:
- ❖ *How can the risks and benefits of digital innovations be better integrated across all disarmament discussions?*
 - ❖ *How can the participation of technical specialists and other stakeholders —particularly from the private sector and the research community — be better incorporated in security discussions of digital innovations?*
- Renata Dwan**, moderator
- 17:50 – 18:00** **Closing Remarks**
Renata Dwan, UNIDIR
Ambassador Felix Baumann, Switzerland
- 18:00 – 19:30** **Reception**

*The 2019 Innovations Dialogue is sponsored by the Governments of Germany, India, Qatar and Switzerland
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