

Colloquium on cybersecurity in the health sector

28 April 2023

Online event

Federica Casarosa | Scuola Superiore Sant'Anna and European University Institute

Jaroslav Greser | Warsaw University of Technology

Introduction

The digitalisation of the health sector is an ongoing phenomenon, which was only accelerated by the impact of the Covid-19 pandemics. Already in 2018, the European Commission addressed the priorities emerging in the digital transformation of health and care, identifying, first, the need to secure citizens' access to their health data (including across borders), secondly, the crucial importance of personalised medicine through shared European data infrastructure, and third the potential for citizen empowerment with digital tools for user feedback and person-centred care (see EU Commission, Communication on enabling the digital transformation of health and care in the Digital Single Market;

empowering citizens and building a healthier society, COM(2018) 233 final). Although the path seems set, the challenges emerging in this framework are several, in particular when looking at the cybersecurity of health devices, being them either medical devices or more general IoT tools, which still collect data about users' health.

The workshop will sketch the research questions that are at the crossroad between data protection, product liability, Artificial Intelligence and cybersecurity.

Programme

09.00 - 09.15 *Introduction*

Federica Casarosa | Scuola Superiore Sant'Anna and European University Institute

Jaroslav Greser | Warsaw University of Technology

Chair: Federica Casarosa | Scuola Superiore Sant'Anna and European University Institute

09.15 - 09.30 *Transatlantic Perspectives of AI-based Medical Devices Cybersecurity'*

Elisabetta Biasin | KU Leuven

09.30 - 09.45 *The regulatory environment for the cybersecurity of the user of the Internet of Medical Devices in the European Union and the United States*

Katarzyna Biczysko-Pudełko | University of Opole



09.45 - 10.00 *Cybersecurity Requirements in Post Market Surveillance of Medical IoT*

Jaroslav Greser | Warsaw University of Technology

10.00 - 10.30 Discussion

10.30 - 10.45 Break

Chair: Jaroslav Greser | Warsaw University of Technology

10.45 - 11.00 *Standards and Liability: what about mixed functions IoT e-health devices?*

Francesca Gennari | Scuola Superiore Sant'Anna

11.00 - 11.15 *Pseudonymisation, anonymisation and secure processing environments relating to the secondary use of electronic health data in the EHDS*

Richard Rak | DigitalEurope

11.15 - 12.15 *European Health Data Space – is the proposed certification system effective against cyberthreats?*

Federica Casarosa | Scuola Superiore Sant'Anna and European University Institute

12.15 - 12.45 Discussion

12.45 - 13.00 **Concluding remarks and future avenues of collaboration**

Federica Casarosa | Scuola Superiore Sant'Anna and European University Institute

Jaroslav Greser | Warsaw University of Technology