

The hopeful future of cybersecurity: disappearance

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Duration: 12 hours + presentation day

Schedule (3 hours per day):

- June 22, 2021
- June 24, 2021
- June 29, 2021
- July 1, 2021
- TBD, July 2021 (presentation by the participants)

Location: DISI, Via Risorgimento 2, Bologna and online via Teams (if pandemic conditions do not allow face-to-face lessons, they will be held online)

Overview

A fully digital and interconnected world is changing forever the boundaries of any organization and citizen but is also favoring a proliferation of malicious cyber behaviors. The incessant dissemination of new products and services is taking too much priority over security and reliability mechanisms. A similar scenario requires a disruptive refoundation of cybersecurity solutions. The course focuses on the following topics:

- 5G+IoT+Big Data = Unavoidable path towards cloudification
- Rethinking the authentication mechanisms
- The eternal problem of vulnerable software
- The role of machine learning in cyber security

The course is open to PhD students in computer engineering and science, but other PhD students with scientific background are welcome. No specific competences on cyber security are required. All participants will be invited to re-think their research activities in terms of *transparent cybersecurity*.

Course material: slides and other material (in English).

Learning and assessment

The course will be taught in English unless explicitly requested by all participants.

The final assessment consists of a presentation on topics that are related to the course and to the research topic of each participant.