2IMS25: Principles of data protection

Nicola Zannone
What is this course about?

- Data Protection & Privacy
- Access Control
- Policy Languages, Models, and Standards
Course Objectives

- understand the relevance of data protection
- a detailed understanding of the most important access control models
- knowledge of the well-established privacy principles
- ability to specify access control and privacy policies
- ability to evaluate access control and privacy policies
Topics covered

- Access Control
- Distributed Trust Management
- Usage Control
- Privacy-aware Access Control
- eXtensible Access Control Markup Language (XACML)
- A taste of research
Organizational matters

- Lecturers:
  - Dr. Nicola Zannone (n.zannone@tue.nl)
  - Prof. Sandro Etalle (s.etalle@tue.nl)

- Prior knowledge: 2IC60 - Computer networks and security (recommended)

- 5 ECTS

- Lectures
  - 2 lectures per week
    - Tuesday from 10:45 till 12:30 in AUDITORIUM 15
    - Thursday from 13:30 till 15:30 in AUDITORIUM 15

- 14 lectures

- Course information

- Assessment
  - written exam
Course Material

▶ Seminal papers
  ▶ Mandatory
  ▶ Suggested
  ▶ http://security1.win.tue.nl/~zannone/teaching/dtm.html

  **Note:** some papers may be accessible only within the TU/e network

▶ Slides
  ▶ https://svn.win.tue.nl/viewvc/security_public/teaching/dtm/

  **Note:** Slides do not replace the papers.
Written exam

- Closed-book exam
- 3 hours
- Open questions and exercises on ALL topics discussed during the lectures and on mandatory papers
- Old exams (with some solutions) on the course webpage.

Date: 1 November 2019 13:30-16:30
Place: TBD

Date: 24 January 2020 18:00-21:00
Place: TBD
Homework

- (Almost) every week
- Exercises on the topics discussed in the lecture
- To be handed in before the beginning of the next lecture
- Not graded
- Solution discussed during the next lecture