

# SDM: Secure Data Management

Willem Jonker (UT)

- Aim: Understand the principles, trends, and security challenges in modern data management. Get hands-on experience with the techniques and implementations.
- Contents:
  - Classical Access Control (Kerberos, etc.) and its shortcomings
  - Access Control in open environments: attribute-based encryption, proxy re-encryption, identity-based encryption
  - Secure Distributed Data Protection: blockchains, private data aggregation, digital rights management
  - Encrypted Databases: search over encrypted data
- Exam: 70% written exam + 30% (practical) assignment
- Period: Q1
- Prerequisite: Security and Cryptography (Q1)