PET: Privacy-Enhancing Technologies Andreas Peter (UT) & Zeki Erkin (TUD)

- Aim: Study information privacy concepts in context

- Contents: Privacy in the context of
  - Communication; Identity Management; Statistics; Electronic Voting; Cloud Computing; Surveillance; ...
  - Example PETs: mix networks; anonymous credentials; differential privacy; homomorphic encryption; ...

- Exam: 60% written exam + 40% assignments

- Period: Q4

- Prerequisite: Security and Cryptography (Q1)

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50 % PETs used in practice	50 % advanced PETs
- Onion Routing (→ TOR) - Anonymous Credentials (→ idemix) - Anonymity concepts (→ k-anonymity)	- Homomorphic Encryption (→ Private Face Recognition) - Secure Multiparty Computation (→ Private Recommendations) - Differential Privacy (→ Private Smart Metering)

+ Invited mini-lecture by KPMG