

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
<ul style="list-style-type: none">• Onion Routing (→ TOR)• Anonymous Credentials (→ idemix)• Anonymity concepts (→ k-anonymity)	<ul style="list-style-type: none">• Homomorphic Encryption (→ Private Face Recognition)• Secure Multiparty Computation (→ Private Recommendations)• Differential Privacy (→ Private Smart Metering)

+ Invited mini-lecture by KPMG (on legal and business aspects)