Cooperative Preventive Security Mechanisms for Peer-to-Peer Systems

Motivation

- Challenge as motivation: Many applications demand for AAA services
- E.g., access control and authentication for first responder scenarios

Challenges

- Provide AAA services without central trusted instance
  - No RADIUS, Kerberos
- Provide AAA services without predefined security policies
  - Efficient involvement of users required

Contribution

- Tools for efficient user-based cooperative decisions
  - Based on threshold cryptography / multisignatures
  - As fundament for AAA services