

ST3: Privacy, Security and Trust in Body Area Networks (PSTB)

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Abstract:

Body area networks (BodyNets) are a promising radio technology with many potential applications in healthcare, surveillance, entertainment, etc. As BodyNets are used to gather, process and wirelessly transmit physiological signals, security, privacy and trust must be assured during BodyNets operation. Due to the constrained resources available to the miniaturized BodyNets devices, it becomes very challenging when it comes to the design of usable, secure and trustworthy mechanisms for BodyNets. New proposals are called to address both theoretical and practical aspects of security, privacy and trust in BodyNets.

Topics of interest:

- Security and trust establishment for BodyNets
- Privacy-preserving protocol design for data sensing, processing and transmission
- Physical layer security
- Cross-layer design for security, privacy and trust in BodyNets
- Practical implementation of security, privacy and trust in BodyNets
- Security and privacy protection for cloud-assisted BodyNets
- Biometrics security for BodyNets
- Theoretical design using techniques such as information theory and game theory