Prof. Florian Tschorsch

Faculty of Mathematics and Natural Sciences
Department of Computer Science
Computer Engineering


ECDF/PR/Noak

Expertise

Prof. Florian Tschorsch and his team research interests revolve around the analysis and design of distributed systems, in particular network architectures and communication protocols. Here, the inherent implementation of data protection and security requirements in a networked environment represents the overarching research goal. Furthermore, the interaction with other system properties such as resilience, scalability, performance and decentralization is considered. Within this framework, topics such as anonymity or weak identities, data privacy, telemetry infrastructures, peer-to-peer networks, and blockchain technologies are explored.

In addition to this technical expertise, the team is also experienced in collaborating on a wide range of interdisciplinary projects, for example in exchanges with lawyers, economists, and data analysts.

Scientific Services

- Threat modeling with regard to data protection, data security and network security
- Network measurements and simulations
- Design and analysis of resilient distributed systems and algorithms
- Consulting on the handling of unauthenticated digital identities
- Consulting on the use and integration of blockchain technologies

Testimonials

- Project work in interdisciplinary teams consisting of industrial companies and research institutions
- Cooperation with a security company on the topic of digital identities and IT infrastructures
- Implementation of pilot projects in real applications
- Mentoring or consulting for startups and companies in the area of network security and blockchains

Topics / Trends

Blockchain
IT & Cyber Security
Communication(s) Systems
Peer-to-peer Communication
Privacy Protection

Scientific Institution

Einstein Center Digital Future (ECDF)

Industries

Information & Communication Technology
Mobility & Logistics

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