Georg Carle: Research Interests

Methods, Tools and Research Infrastructures

Automated, reproducible testbed measurements

Research Infrastructures for Networked Systems Experiments

Internet-scale measurements and automated analysis

Automated methods for network & security configuration

Testbed measurements & Data Analytics

High-performance programmable packet processing

eBPF, DPDK, P4

QUIC, MASQUE, TLS, Post-Quantum-Cryptography

Internet measurements & Data Analytics

Scanning and fingerprinting the Web, TLS, QUIC, IPv4/v6

IPv6 Hitlist, BGP, DNS, X.509 certificates,

iCloud Private Relay

Resilient and secure networked systems

Instrumentation for self-management and resilience

Proactive: security configuration and accountability

Reactive: anomaly detection and remediation

ML-supported: data-driven, GNN models

Topics for Discussions: Large-Scale Research Infrastructures

Own infrastructure and data:

Who uses testbeds for his research?

Who uses specific infrastructure for research over the Internet?

Who produces which research data with his infrastructure?

Infrastructure and data of others:

Who is interested in which type of research infrastructure of others?

Who is interested in which type of research data from others?

Future capabilities:

Who has proposals for new capabilities of own or other infrastructure?

Who has proposals for specific research data collections?