

Georg Carle: Research Interests



Topics

Network measurements

- High-performance packet processing
- Internet-scale properties
- Reproducibility
- Performance of security mechanisms

Network architecture

- Low-latency communication and latency guarantees
- Network security and privacy

Methods

Automated performance measurements in testbed

Large-scale measurements and automated analysis

Automated methods for network & security configuration

Network Security

- Fundamental challenges?
- Cost of security?
- Challenging threats?

SDN and Virtualization

- Future of P4 and other SDN approaches for the data plane?

High performance packet processing

- Which challenges/limitations to look at in packet processing?

Reproducibility

- What are suitable reference benchmark scenarios?
- Are we aware of network experiments that are hard to reproduce?

What is the future relevance of the following (Hot) Internet Topics?

- SDN/NFV: P4, XDP, eBPF, ...
- Blockchain, Certificate Transparency, ...
- ICN/NDN; RPKI; ...