

# Georg Carle: Research Interests



## Topics

### Network measurements

- High-performance packet processing
- Internet-scale infrastructure properties
- Reproducibility

### Network architecture

- Low-latency communication and latency guarantees
- Network function chaining and virtualization
- Network resilience and adaptive configuration
- Network security and privacy

## Methods

Automated performance measurements in testbed

Large-scale measurements and automated analysis

Automated methods for network & security configuration

## Reproducibility

- What are suitable reference benchmark scenarios?
- Are we aware network experiments that are hard to reproduce?
- Which questions of behavior are we interested in?

## High performance packet processing

- Which challenges/limitations to look at in packet processing?
- DPDK vs. other frameworks

## SDN and Virtualisation

- What are relevant research challenges for SDN, for NFV?
- Future of P4 and other SDN approaches for the data plane?

## What is the future relevance of the following Hot Internet Topics?

- ONOS, Blockchain, Certificate Transparency, ...
- Information-Centric Networking; Delay-Tolerant Networking; Resource Public Key Infrastructure (RPKI); ...