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
Large-scale measurements and automated analysis
Trustworthy methods for network & security configuration
Topics for Discussions

Digital sovereignty
- European perspective - dependencies on technologies (HW IP, including processors, ...), companies (cloud, ...), ...
- Possible strategies (Open source, open architecture, ...)

Network security
- Impact of security on performance, complexity, availability
- Current trust models – desire to change?

Performance of networked systems
- DetNet, TSN
- Programmable data plane: P4, XDP, eBPF, ...
- BFT, Blockchain/DLT, Certificate Transparency, ...

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