Chair of Communication Networks
TUM Department of Electrical and Computer Engineering
Technical University of Munich

TUM

Forschungspraxis

Implementing and Evaluating Neural Networks in the extended Berkeley Packet Filter

In this Thesis, the performance of Neural Networks in the extended Berkeley Packet Filter (eBPF) should be evaluated. The student should find suitable tracepoints to execute a NN in the downstream path of the Linux networking stack. The student should then evaluate the throughput and latency that can be achieved with a Neural Network. Further, the impact of the size of the Neural Network on the throughput and latency should be evaluated.

Advisors

Patrick Krämer, Andreas Blenk