

## Machine-Learningbased Delay Prediction Capability Comparison

## Motivation

Machine learning plays an increasingly important role in network design and management. Flow metrics, such as delay bounds, are a key performance indicator of a well designed network. Delay bounds can be obtained by mesuring the real-world setup, by simulating, by emulating, or by utilizing formal methods. The goal of this thesis is to compare how well machine learning approaches are able to predict delay bounds based on rel-world measurements as well as simulations of different networks. To this end you will be provided with two datasets. one from realworld measurements and one from simulations. Your taks will be to design a



machine learning approach that can predict delay bounds for both dataset with similar accuracy.



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