

Towards ML-based Management of Software-Defined Networks

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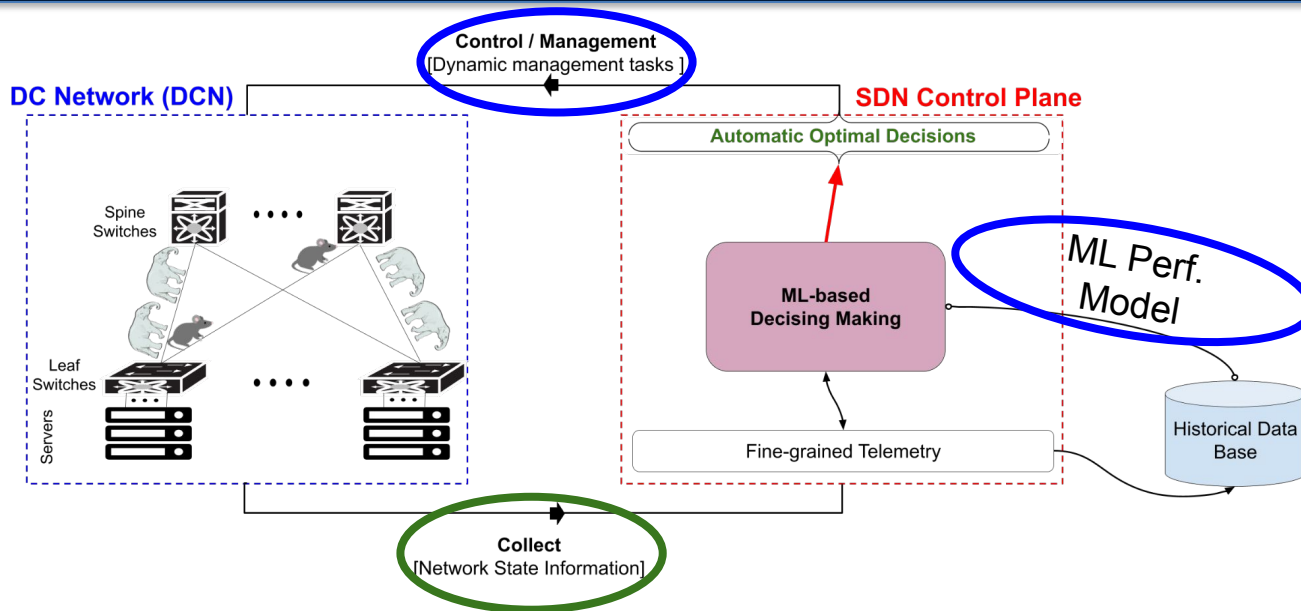
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SDN Monitoring, Data centers, Machine Learning,
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Thesis Contributions Overview



COCO: Confidence based Collection - Efficient Monitoring

Generic SDN monitoring where COCO ensures good accuracy/overhead for periodic collection

Mininet 1

Learning-based Incast Performance Inference in SD-DCN

Random Forest incast performance model easily generalizable with no approximations assumptions

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ML-based Traffic Performance Optimization in SD-DCN

Automatic ML and Bayesian Optimization (BO) based smart switch buffer management

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