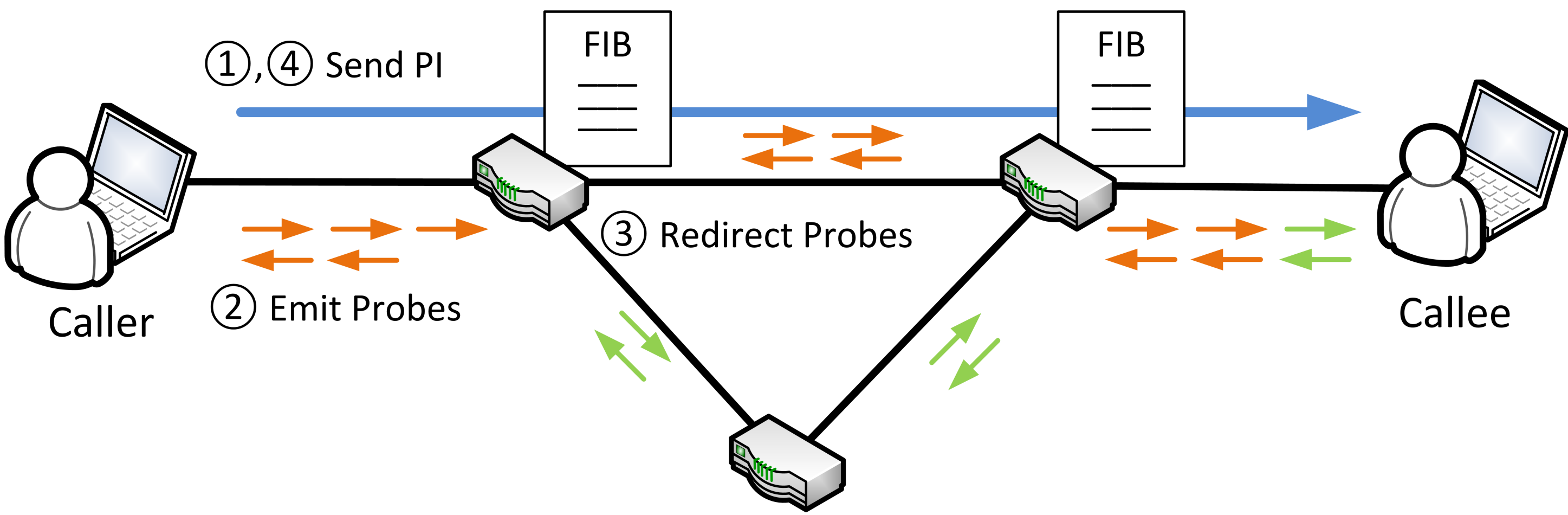


# Adaptive Forwarding of Persistent Interests in Named Data Networking

Overview

## Architecture



## Contribution

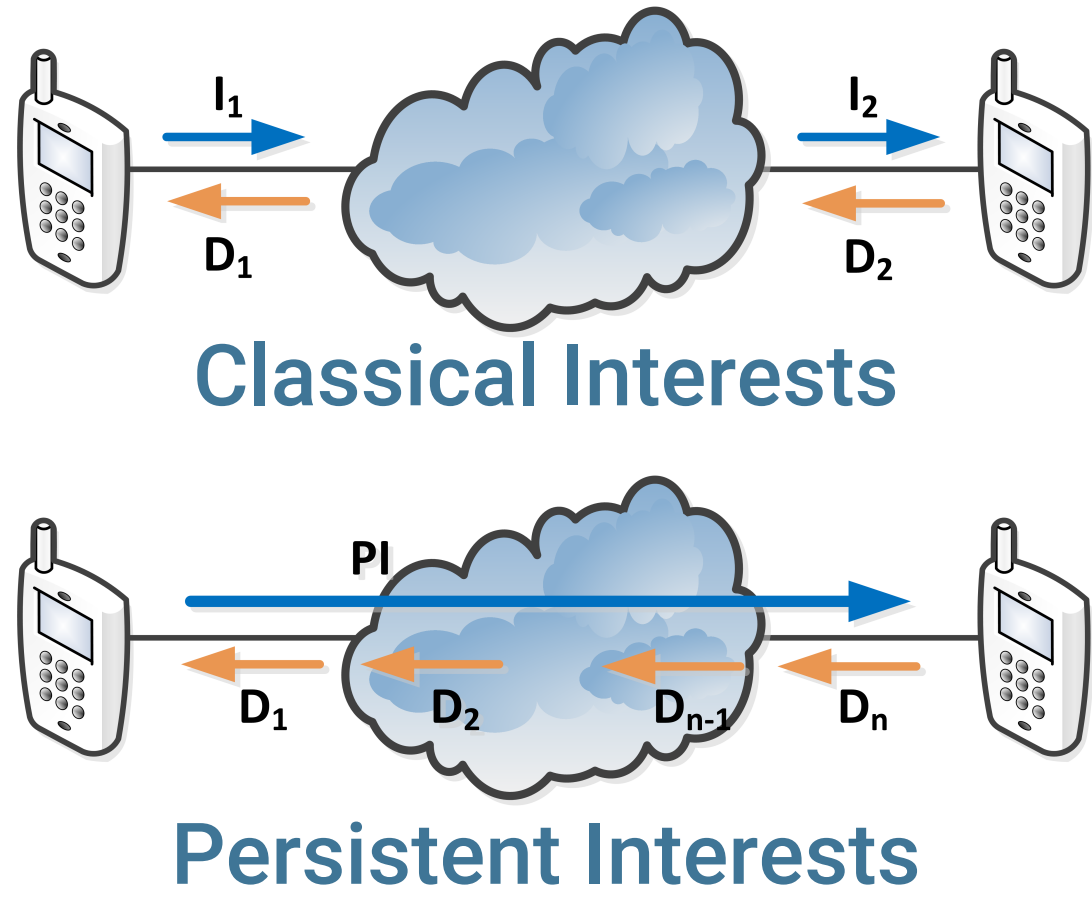
Adaptive Forwarding Strategy for Persistent Interests based on Probing

Details

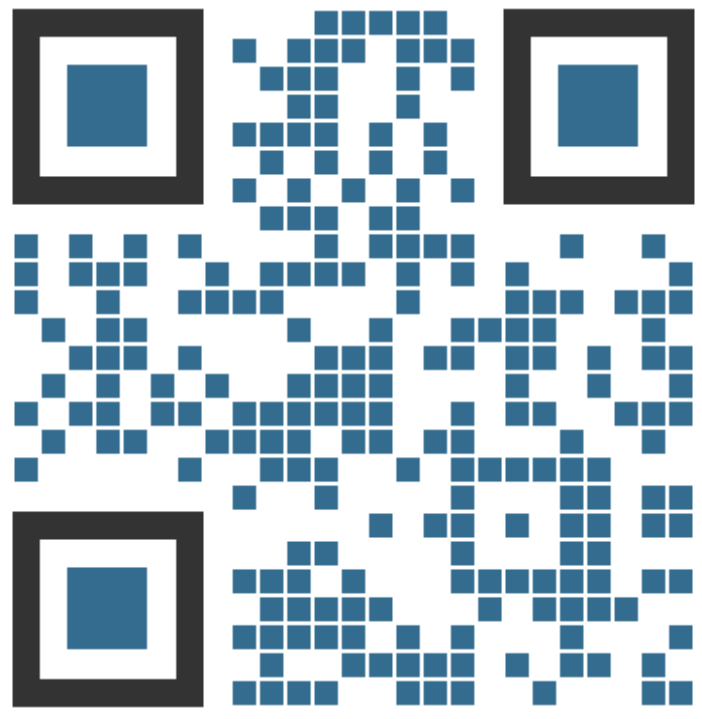
## Workflow

- ① Forward first PI based on information from the FIB
- ② Client emits Probes to evaluate the paths to the destination
- ③ A fraction of the probes explores alternative paths
- ④ The forwarding decision for the next PI is based on probing results

## What are Persistent Interests?

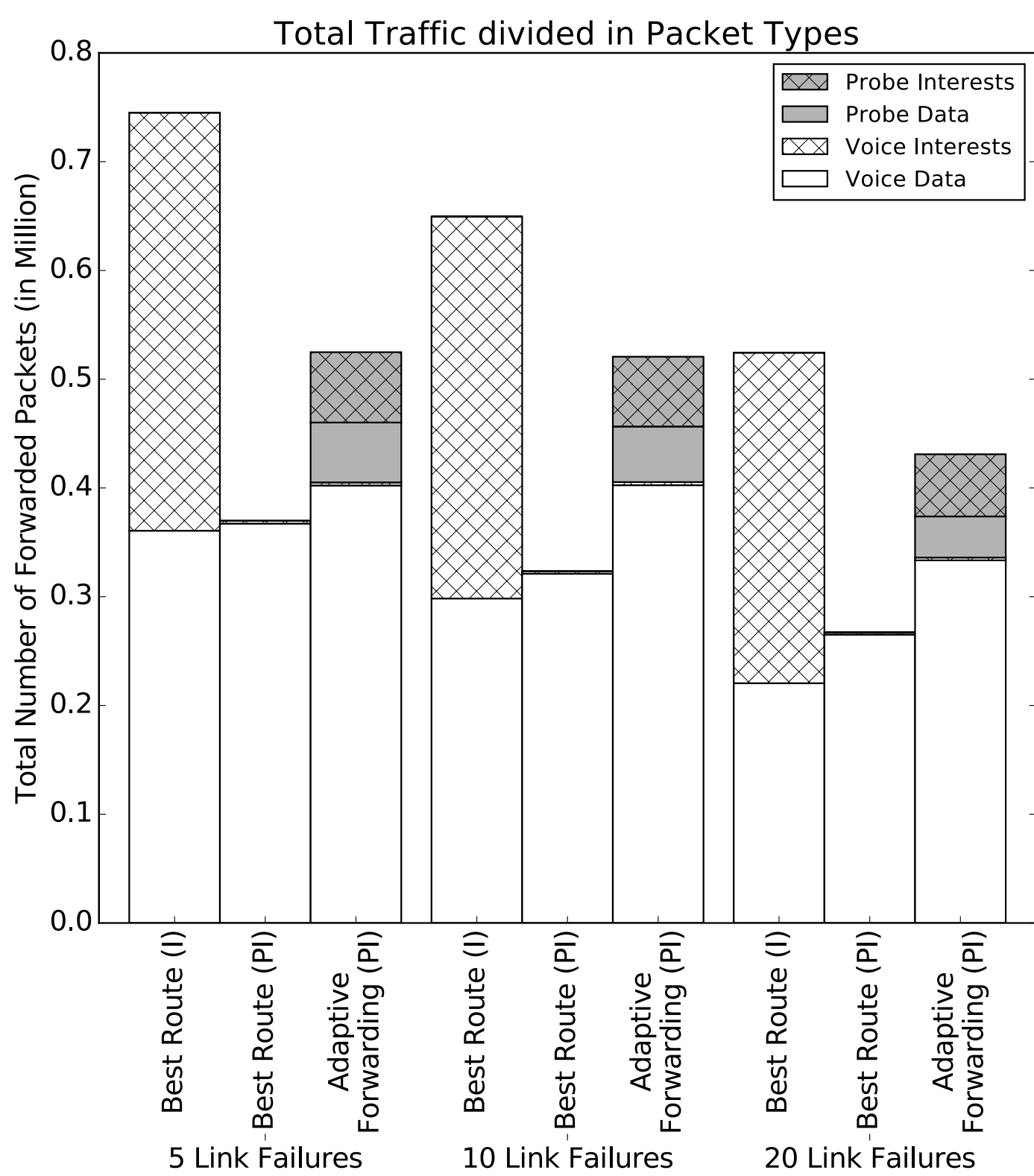
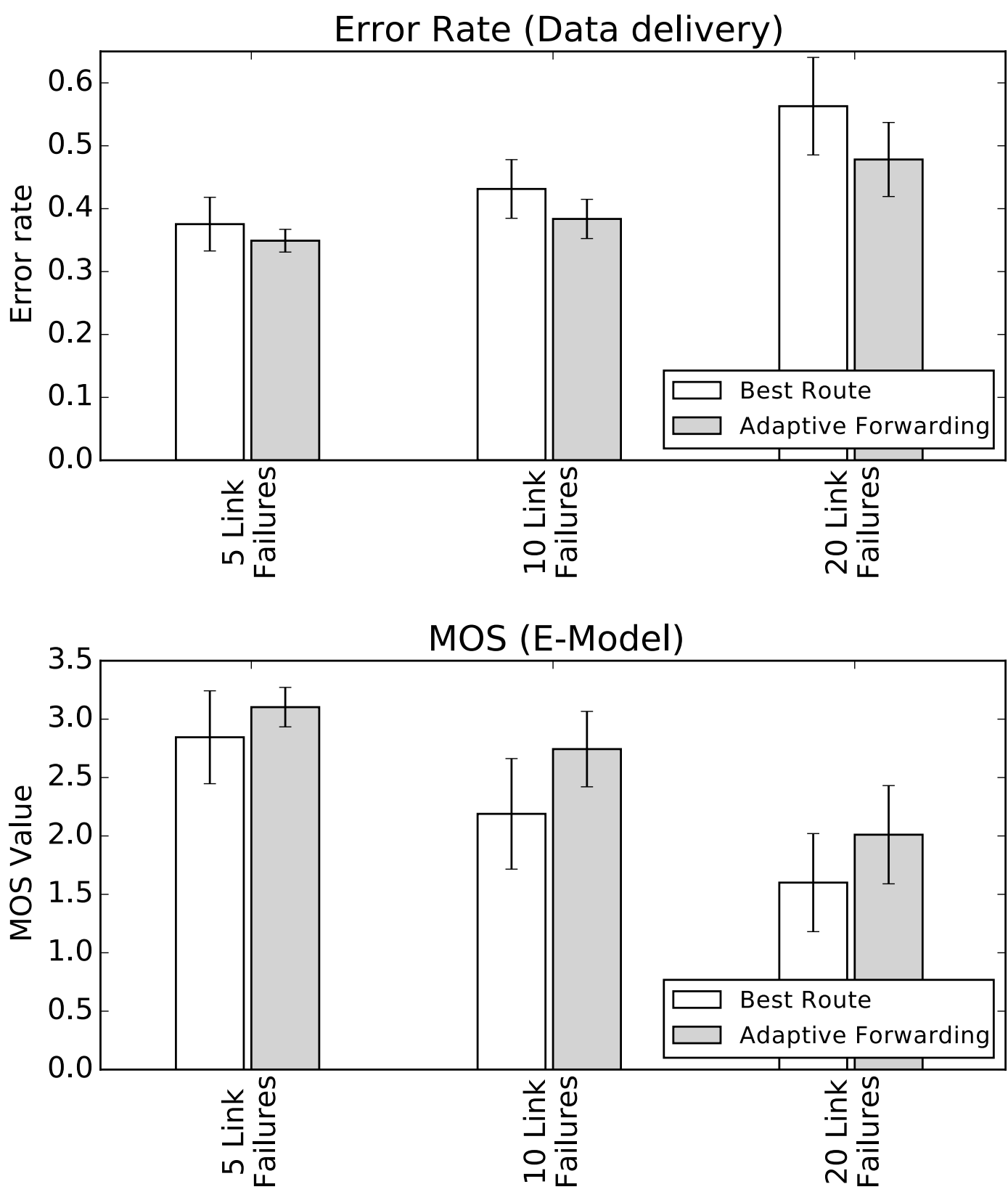


Check out our previous paper [1] for further details on Persistent Interests (PIs).



## ndnSIM Simulation Results (10-min. voice calls)

Evaluation



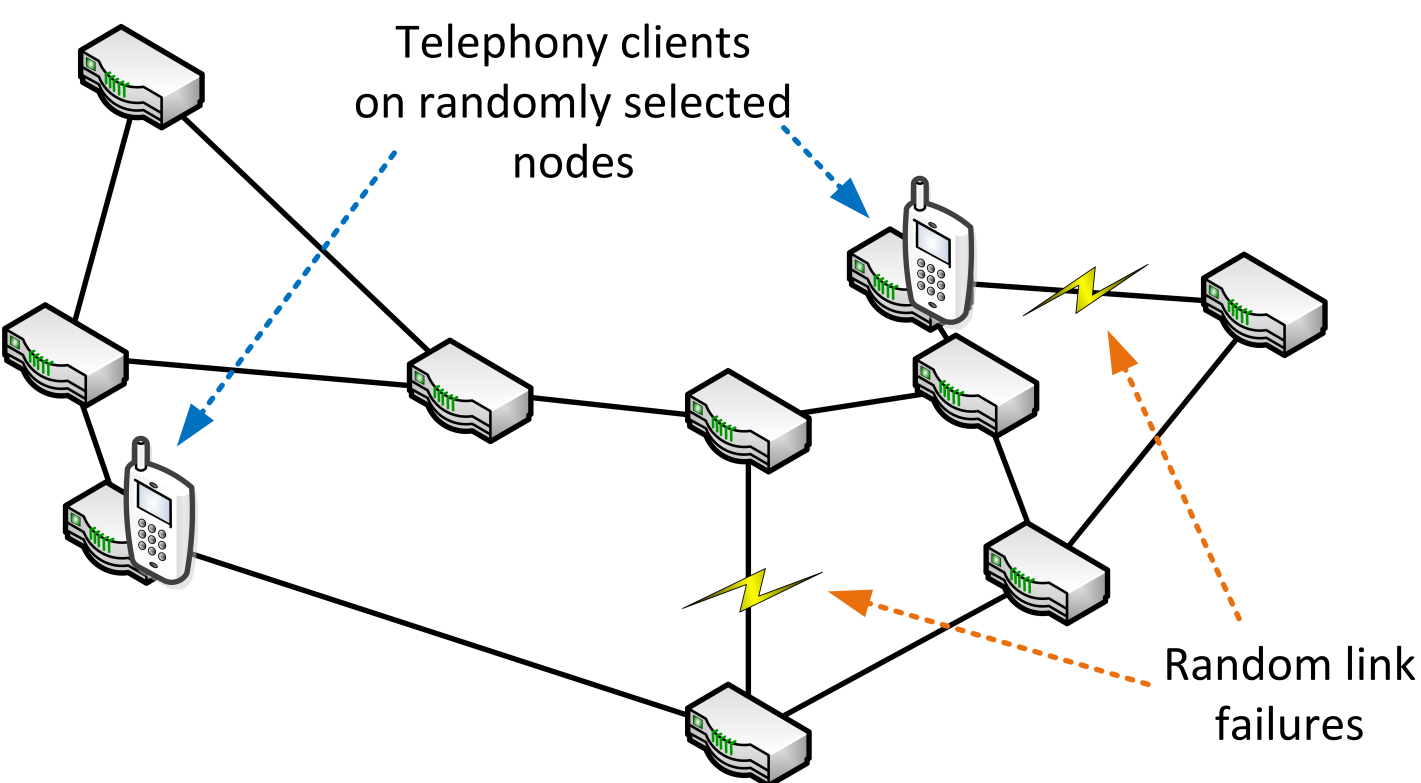
## Contact

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Background

## Abilene Core Topology



## References

- [1] P. Moll, D. Posch, H. Hellwagner. 2017. Investigation of Push-Based Traffic for Conversational Services in Named Data Networking. In Proceedings of the 2017 IEEE International Conference on Multimedia and Expo Workshops.
- [2] K.M. Schneider, U.R. Krieger. 2015. Beyond Network Selection: Exploiting Access Network Heterogeneity with Named Data Networking. Proceedings of the 2nd International Conference on Information-Centric Networking.
- [3] P. Gusev, J. Burke. 2015. NDN-RTC: Real-time videoconferencing over Named Data Networking. In Proceedings of the 2nd International Conference on Information-Centric Networking.