Collaborative Monitoring in Federated Software-defined Networks

Motivation
- SDNs need distributed control planes to achieve scalability and reliability
- Monitoring approaches designed for SDNs ignore that fact
- Huge efficiency improvement possible when controllers collaborate

Challenges
- Share information among controllers efficiently
- Intelligent and dynamic selection of measurement techniques and points
- Devolve monitoring tasks to dedicated monitoring layer

Contributions
- Provide distributed approaches to reduce monitoring costs through controller collaboration
- On-the-fly selection of best-fitting measurement techniques
- Disturb controllers only on significant and relevant changes by devolving tasks to dedicated monitoring layer