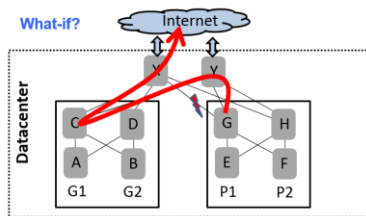# Stefan Schmid (University of Vienna)
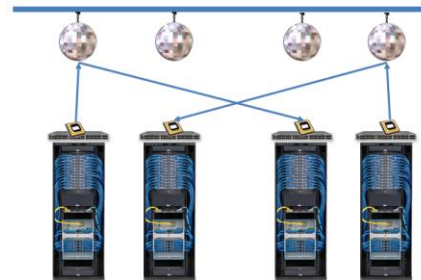
Vision/mission: **Self-* networks** (self-stabilizing, self-verififying, self-adjusting)
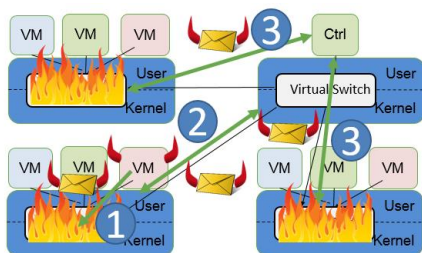
Formal Methods for Networks

- E.g., Polynomial-time verification of communication networks: ***MPLS and Segment Routing (SR)*** networks
- Automata-theoretic approach
- **INFOCOM 2018, CoNEXT 2018**
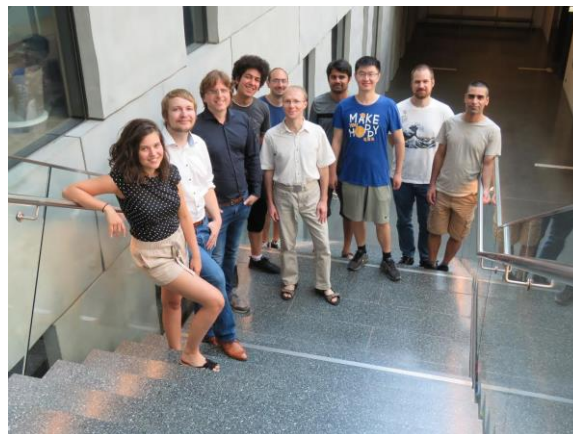
Demand-Aware & Self-Adjusting Networks

- Collaboration with BGU/MSR/MIT
- **J.ACM 2014, TON 2016, DISC 2017, ANCS 2018, CCR 2019**
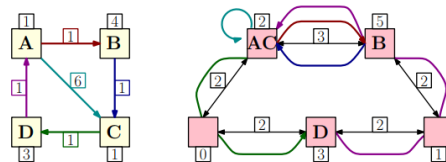
Security of Network Virtualization

- Fuzzing of OVS: ***compromising*** cloud
- **SOSR 2018 best paper, Secson 2018**

Others

- ETHZ, TUM, T-Labs, Aalborg
- Editor of EATCS DC column
- ***Looking for PhDs***, postdocs

Algorithms and Machine Learning

- Consistent ***network update***
- Virtual network ***embedding***
- ***Predictable*** control plane performance
- **PODC 2015, SIGMETRICS 2016, ICALP 2018, IFIP Networking 2018 best paper**