

Task	Abstraction	Sample Scientific Question
Topology Design	Topology Description Language	Can SAT Solvers aid rural topology design?
Network Verification	Policy Specification	Can Network Specific clustering be used to find bugs without a specification?
Network Testing	Coverage Specifications	What does it mean to cover the control plane?
Network Probing	Router Debugging Primitives	Can hardware boundary scan ideas (JTAG) be extended to router boundary scan (RTAG)
Network Monitoring	Performance Query Language	How to apply performance assertions to networks?
Network Debugging	Application SLAs	Can machine learning be used to link network performance measures to application measures?
Failure Analysis	Cause-effect Graphs	Can NLP find causal relations from text?