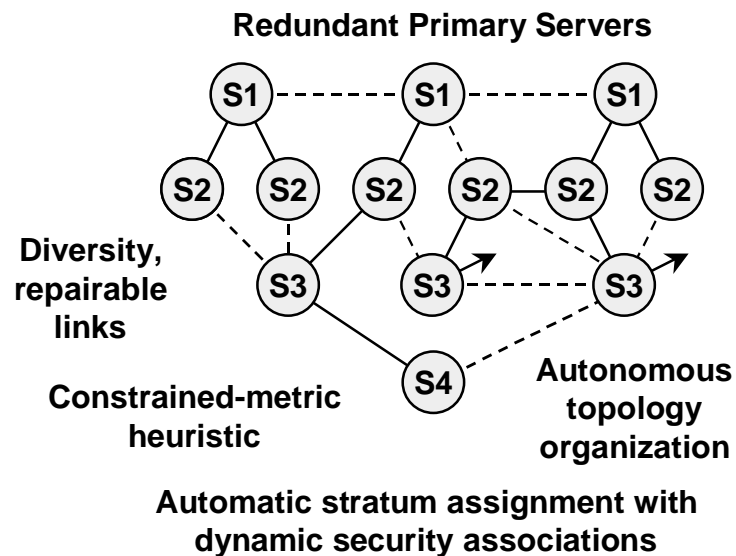


Survivable Real-Time Network Services (G409)



New ideas

Dynamic peer discovery using intelligent multicast algorithms

Self-organizing, multiple server topology for redundancy and diversity

Automatic repair and restoral using adaptive, constrained-metric heuristics

Automatic stratum assignment

Impact

Minimize dependence on engineered network configuration data

Avoid intricate case-by-case analysis of failure/fallback/recovery scenarios

Provide automatic reconfiguration in case of network reconfiguration or failure

Schedule (third year)

Implement and test asynchronous certificate retrieval for dynamic re-keying

Implement expanding-ring, hop-limited, multicast algorithms

Enhance and add new protocols to the network simulator for very large networks