

Testing/Control Techniques

Verification

More Scalable

Less Scalable

- Simulation
- Linear Analysis (Numerical)
- Test Vector Generation for Model Coverage
- Linear Analysis (Symbolic)
- **Falsification**
- Multiple-Shooting
- RRT-REX
- Concolic Testing
- Simulation-Guided Lyapunov Analysis
- Stability Proofs
- Reachability Analysis
- Model Checking
- **Theorem Proving**

Less Formal/Exhaustive

More Formal/Exhaustive