Modern Verification
More complex models

- STA with non-determinism and data
- SHA
- Modest
- games: open systems, synthesis
More complex properties

- multi-objective
- quantiles
- conditional expectations
- probability transformers
More complex algorithms

- partial order reduction
- symbolic
- symbolicit
- abstraction
  - lumping, bisimulation, regions & zones (subsumption)
  - game-based
  - cegar
- compositional
- statistical model checking
- machine learning (reinforcement learning, decision-tree learning)
Tools

- Modest toolset
- MRMC, IscasMC, Storm
- Plasma
- Rabinizer
- C2E2 (bloating simulations)
  - TuLiP (temporal logic)
  - HyST (hybridization, continuization)