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**Goal:** Model-based performance/dependability/security evaluation.

**Approach:** Development of a framework/tool that supports multiple modeling formalisms, at multiple levels of detail and abstraction, and multiple solution methods.

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**Model Simulators**
- Terminating Simulator
- Steady-State Simulator

**Atomic Model Formalisms**
- Stochastic Activity Networks
- PEPA
- Buckets and Balls
- Modest Language
- Support for general state variables

**Model Composers**
- Rep-Join Trees
- Graph Interconnection

**State-Space Generator**
- Flat SSG
- Symbolic SSG

**Variable Specifiers**
- Reward Variables

**Model Connectors**
- Fixed-Point Governor
- Acyclic Model Connector

**Study Specifier**
- Design of Experiments
- Model Parameter Variation

**Model Solvers**
- Transient
- Steady-State
- Accumulated Reward
- Deterministic/Exponential

**Solver Libraries**

**Formalism Libraries**

**Linker**

**Model Specification**

**Component Interaction**

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**Model Solution**

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