• Creating performance models requires a lot of expert knowledge

• Model-based performance evaluation techniques proposed by the scientific community are often only applicable once a model of a system exists

• Several approaches were proposed to automatically construct performance models but they use self-written monitoring solutions

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**Application Areas**

- Use existing Application Performance Management (APM) knowledge for model-based Software Performance Engineering (SPE) activities such as:
  - Early Performance Predictions (e.g., when reusing existing components)
  - Architecture Optimizations
  - Detecting Performance Changes
  - Capacity Planning
  - …

**Evaluation Using SPECjEnterprise2010**

- **Experiment Setup**
  - Benchmark Driver: Faban Harness
  - SUT: GlassFish AS 4
  - VMWare ESXi 5.1.0

- **Results**
  - CPU utilization prediction error between 2 and 10 %
  - Response time prediction error between 8 and 27 %

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Interested? Learn more: [http://pmw.fortiss.org](http://pmw.fortiss.org)
Or contact us directly: performancegroup@fortiss.org