



# SIPEW 2008

June 27-28, 2008, Darmstadt, Germany

<http://www.sipew2008.org>



## SPEC International Performance Evaluation Workshop 2008

The goal of the SPEC International Performance Evaluation Workshop 2008 is to bridge the gap between theory and practice in the field of system performance evaluation by providing a forum for sharing ideas and experiences between industry and academia. The workshop will bring together researchers and industry practitioners to share and present their experiences, discuss challenges, and report state-of-the-art and in-progress research in all aspects of performance evaluation. The workshop is co-located with and will take place immediately after a SPEC meeting which will be attended by numerous representatives from across the hardware and software industry. This will provide a unique opportunity for researchers to meet with industry practitioners. Topics of interest include, but are not limited to:

### Benchmarking

- Performance metrics and benchmark suites
- Benchmarking methodologies
- Development of parameterizable, flexible benchmarks
- Evaluating energy efficiency
- Use of benchmarks in industry and academia

### Workload Characterization and Experimental Performance Evaluation

- Performance measurement and monitoring techniques
- Workload characterization techniques
- Application tracing and profiling
- Performance tuning and optimization techniques
- Experimental design
- Tools for performance testing, measurement, profiling and tuning

### Performance-Oriented Design and Development

- Software performance engineering
- Performance patterns and anti-patterns
- Early cycle performance prediction
- Quantitative extensions of design-oriented models
- Component-based software performance engineering
- System sizing and capacity planning techniques

### Performance Modeling and Analysis

- Modeling formalisms
- Analytical, simulation and statistical modeling methodologies
- Model validation and calibration techniques
- Use of models for online performance prediction
- Modeling and analysis tools

### Performance Case Studies in the areas of

- Parallel and distributed systems
- Service-oriented architectures (SOA)
- Web services
- Enterprise middleware (Java EE, .NET)
- Message-oriented middleware
- Event-based systems
- Web-based systems, e-business
- Cluster and grid computing environments
- High-performance computing
- Virtualization platforms
- Communication networks
- Peer-to-peer systems
- Mobile and wireless systems
- (Wireless) sensor networks
- Real-time and multimedia systems
- Embedded systems

### Important Dates:

Paper Submission	March 14, 2008
Author Notification	April 21, 2008
Final Manuscript due	May 2, 2008

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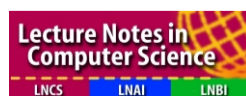
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