



SIPEW 2008

June 27-28, 2008
Darmstadt, Germany

<http://www.sipew2008.org>



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 technique

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)
- 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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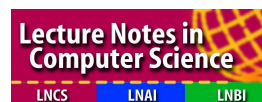


Submission Guidelines

All papers must represent original and unpublished work that is not currently under review. Each paper will be reviewed by at least three independent referees. Papers will be evaluated according to their significance, originality, technical content, style, clarity, and relevance to the workshop. At least one author of each accepted paper is expected to attend the workshop.

Two types of paper submissions will be accepted **full research papers** of up to 20 pages and **short research / industry** papers of up to 8 pages formatted according to the LNCS format (see author's instructions given on <http://www.springer.de/comp/lncs/authors.html>). Submissions must be original and should not have been published previously or be under consideration for publication while being evaluated for this workshop. Papers must be submitted electronically in PDF format through EasyChair (<http://www.easychair.org/conferences/?conf=sipew2008>).

The proceedings of the workshop will be published by Springer as a volume in the Lecture Notes in Computer Science series.



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John Henning - *Sun Microsystems, USA*

Organizing Chair

Kai Sachs - *TU Darmstadt, Germany*

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