The goal of the 1st Joint WOSP/SIPEW International Conference on Performance Engineering is to provide a forum for ideas in performance engineering of software and systems, including performance measurement, modeling, benchmark design, and run-time performance management. WOSP/SIPEW is established as a joint meeting of the ACM Workshop on Software and Performance (WOSP) and the SPEC International Performance Evaluation Workshop (SIPEW).

Since its inception in 1998, WOSP has brought together software engineers, developers, performance analysts and software/performance modelers who are addressing the challenges of increasing system complexity, rapidly evolving software technologies, short time to market, incomplete documentation, and less-than-adequate methods, models and tools for developing, modeling, and measuring scalable, high-performance software. The focus of WOSP is therefore in the intersection of software and performance, rather than one discipline in isolation.

SIPEW was established by the Standard Performance Evaluation Corporation (SPEC) with the goal 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 brings 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 conference is co-located with the SPEC Annual Meeting 2010 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.

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- Samuel Kounev (SIPEW)
Topics of interest include (but are not limited to) the following areas:

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<thead>
<tr>
<th>Performance modeling of software</th>
<th>Benchmarking</th>
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<tbody>
<tr>
<td>- Languages and ontologies</td>
<td>- Performance metrics and benchmark suites</td>
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<tr>
<td>- Methods and tools</td>
<td>- Benchmarking methodologies</td>
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<tr>
<td>- Composing models</td>
<td>- Development of parameterizable, flexible benchmarks</td>
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<td>- Capturing user behavior</td>
<td>- Use of benchmarks in industry and academia</td>
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<th>Performance measurement and analysis</th>
<th>Workload characterization and experimental performance evaluation</th>
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<td>- Software performance testing</td>
<td>- Workload characterization techniques</td>
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<tr>
<td>- Application performance measurement and monitoring</td>
<td>- Application tracing and profiling</td>
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<td>- Analysis of measured application performance data</td>
<td>- Performance tuning and optimization</td>
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<th>Performance and development processes</th>
<th>Run-time performance management</th>
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<td>- Software performance patterns and anti-patterns</td>
<td>- Use of models at run-time</td>
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<td>- Software/performance tool interoperability (models and data interchange formats)</td>
<td>- Online performance prediction</td>
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<td>- Performance-oriented design, implementation and configuration management</td>
<td>- Autonomic resource management</td>
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<td>- Software Performance Engineering and Model-Driven Development</td>
<td>- Utility-based optimization</td>
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<td>- Gathering, interpreting and exploiting software performance annotations and data</td>
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<th>Performance modeling methodologies</th>
<th>Performance evaluation in different environments and application domains, including, but not limited to:</th>
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<tr>
<td>- Analytical, simulation and statistical modeling methodologies</td>
<td>- Service-oriented architectures (SOA)</td>
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<td>- Model validation and calibration techniques</td>
<td>- Web-based systems, e-business, Web services</td>
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<td>- Performance modeling and analysis tools</td>
<td>- Transaction-oriented systems</td>
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<td>- Virtualization platforms</td>
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<td>- Communication networks</td>
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<td>- Parallel and distributed systems</td>
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<td>- Embedded and autonomous systems</td>
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<td>- Cluster and grid computing environments</td>
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<td>- High performance computing</td>
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<td>- Event-based systems</td>
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<td>- Real-time and multimedia systems</td>
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<td>- Peer-to-peer, mobile and wireless systems</td>
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<th>Model-driven performance testing, measurement, and experimental design</th>
<th>Power and performance, energy efficiency</th>
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<td>Model-driven performance requirements engineering</td>
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Various different kinds of papers are sought: basic research, novel applications, and industrial experience, with different criteria for each category. Experience reports are particularly sought.

**SUBMISSIONS**

- Full research papers (up to 12 pages, in ACM format)
- Industrial experience reports which present unmet needs, or describe the application of a performance technique in enough detail that its effectiveness can be evaluated (any appropriate length up to 12 pages)
- Short research/industrial papers (up to 6 pages in ACM format)
- Poster session papers (up to 4 pages in ACM format)
- Tutorial proposals (up to 2 pages in ACM format)

There will also be an hour-long work-in progress session. Participants are invited to submit a title and abstract of a half a page for this in advance, and will be given up to five minutes for a quick presentation.
IMPORTANT DEADLINES

July 7th, 2009  Deadline for submission of papers and tutorial proposals
September 3rd, 2009  Notification of acceptance to authors
October 5th, 2009  Final papers and completed copyright transfer forms due at the publisher web site
December 31st, 2009  Deadline for advanced registration

CONFERENCE WEB SITE

The conference web site is http://www.wosp-sipew.org.

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The conference welcomes corporate support. Please contact André Bondi (andre.bondi@siemens.com) to discuss support levels and benefits. Examples of the benefits of different corporate support levels may be found at the conference web site, http://www.wosp-sipew.org.