

Third Workshop on System Management Techniques, Processes, and Services



Long Beach, CA
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<http://www.ece.rutgers.edu/~yyzhang/ipdps-ws>
To be held in conjunction with
IPDPS 2007

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Authors are requested to submit extended abstracts not exceeding 12 pages, including abstract, five key words, contact address, figures, and references. Please send your extended abstracts via email to kryu@us.ibm.com by Dec 1st, 2006 (Midnight, EST).

With services business accounting for more than half of the U.S. economy, in our third year of SMTPS we would like to broaden the scope of our workshop to cover all aspects of system management, going beyond scientific computing related topics. In order to satisfy the systems needs of both commercial and scientific applications, the focus on system management now includes not only the tools and user interfaces, but also other aspects such as services, processes and system control. The wide use of large-scale parallel and distributed systems demands sophisticated fault-tolerant techniques to minimize the performance loss under faulty conditions in order to reduce management costs. Similarly, today's commercial systems are evolving towards generalized system management solutions. Additionally, the explosion of outsourcing business in IT area calls for innovative techniques to manage commercial and scientific systems remotely. With the emergence of service-oriented architecture and the inclusion of service computing as standards of IT solutions, there is also a growing need of research in studying the usability and applicability of these new technologies.

This workshop is intended to bring together researchers and practitioners to identify the new challenges imposed by this trend and investigating efficient software tools, techniques and service processes to improve the performance, reliability and operation of enterprise servers including parallel and distributed systems.

Topics of interest include, and are not limited to:

Scalable operating system design

- Scalable resource management tools
- Efficient failure diagnosis, failure prediction and failure recovery tools
- Self-healing and self-management tools
- Power management for enterprise servers leading to efficient systems management
- System bring-up, maintenance and control tools
- Performance, system utilization implications
- Scalable I/O and file system management
- Optimization techniques for services management
- Services engineering and utility computing techniques
- Web services and Services oriented architecture and implications to system management aspects

Results of both theoretical and practical significance will be considered, and as will interesting topics in their infancy.

Important Dates:

Paper submission deadline	Dec 1, 2006
Notification of acceptance	Jan 8, 2007
Camera-ready paper due	Jan 22, 2007