



CALL FOR PAPERS

IISWC 2005

IISWC
Formerly WWC

The Annual IEEE International Symposium on Workload Characterization

*Sponsored by IEEE Computer Society and
the Technical Committee on Computer Architecture*

October 6-8, 2005
Austin, Texas

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The meeting that began as Workshop on Workload Characterization (WWC) in 1998 is becoming a Symposium. New computer applications and programming paradigms are constantly emerging to complement new and improving technology. The design of next generation microprocessors and computer systems should be based on an understanding of today's emerging workloads. This 3-day symposium, sponsored by IEEE and the Technical Committee on Computer Architecture, will focus on characterizing and understanding modern computer applications commercial and scientific computing.

Papers are solicited in all areas related to characterization of workloads (system and/or application behavior) in a variety of environments. Topics of interest include (but not limited to):

Workload characterization or related studies focusing on the following types of applications:

- E-commerce, Web server, Database
- Embedded, Mobile, Multimedia
- Life Sciences, Drug Discovery
- Java, Object-oriented
- Learning and Discovery, Graphics
- Multiprocessor
- Scientific and technical
- Security, Biometrics
- Operating system intensive
- Multi-threaded

- Effects of architectural features on workload behavior
- Machine independent characterization of workloads
- Memory and I/O access patterns
- Power and reliability issues related to workload
- Benchmark creation and validation
- Representative trace generation
- Profiling, trace collection and validation issues
- Workload synthesis
- Abstract modeling of program behavior
- Emerging and Future workloads

Submission guidelines:

- Abstract: 200 words of text
- Full paper: 20 pages (double spaced, single column, 5000 words maximum)

Important Dates:

Abstract Submission: **June 20, 2005**

Final Paper Submission: **June 27, 2005**

Acceptance Notified: **August 26, 2005**

Final Manuscript Submission: **September 6, 2005**

For more information, visit the IISWC web site at:

<http://iiswc.org/>