

ASPLOS 2016

21st International Conference on
Architectural Support for
Programming Languages and
Operating Systems

*Proceedings will be available in the
ACM DL up to two weeks prior to the conference

Atlanta, GA. Apr 2-6, 2016



Source: gitech.edu

Abstracts	Aug 5, 2015
Full Paper Submissions	Aug 12, 2015
Author Response Period	Oct 31, 2015
Notification	Nov 17, 2015
Final Copy Deadline	Jan 27, 2016

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ASPLOS is the premier forum for multidisciplinary systems research spanning computer architecture and hardware, programming languages and compilers, operating systems and networking, as well as applications and user interfaces. The 2016 conference will be held in Atlanta, Georgia, “capital of the new south”, home to the 1996 Summer Olympic Games, with world-class restaurants and a myriad of cultural attractions to a hip nightlife and sporting events galore.

Like its predecessors, ASPLOS 2016 invites papers on ground-breaking research at the intersection of at least two ASPLOS disciplines: architecture, programming languages, operating systems, and related areas. Non-traditional topics are especially encouraged. The importance of cross-cutting research continues to grow as we grapple with the end of Dennard scaling, the explosion of big data, scales ranging from ultra-low power wearable devices to exascale parallel and cloud computers, the need for sustainability, and increasingly human-centered applications. ASPLOS embraces systems research that directly targets these new problems in innovative ways. The research may target diverse goals such as performance, energy and thermal efficiency, resiliency, security, and sustainability. The review process will be sensitive to the challenges of multidisciplinary work in emerging areas.

Areas of interest include, but are not limited to:

- emerging platforms at all scales, from embedded to cloud
- heterogeneous multicore architectures and accelerators
- systems for enabling parallelism at an extreme scale
- non-traditional computing systems
- systems that address social, educational, and environmental challenges
- programming models and compilation for existing and emerging platforms
- managing, storing, and computing on big data
- virtualization
- memory and storage technologies and architectures
- power, energy, and thermal management
- security, reliability, and availability
- verification and testing, and their impact on design



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