

ASPLOS 2015

20th International Conference on **Istanbul, Turkey, March 14-18, 2015***

Architectural Support for
Programming Languages and
Operating Systems

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

<http://asplos15.bilkent.edu.tr>



Source: istanbul2010.org

Abstracts	July 31, 2014
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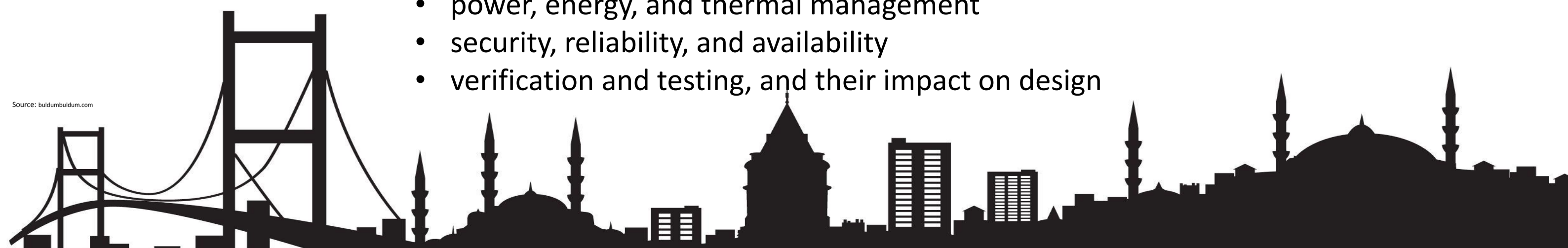
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ASPLOS is the premier forum for multidisciplinary systems research spanning computer architecture and hardware, programming languages and compilers, operating systems and networking, as well as applications and user interfaces. The 2015 conference will be held in Istanbul, Turkey, a city where two continents meet on the blue waters of the Bosphorus to offer an abundance of unique natural, historical, cultural, and culinary experiences.

Like its predecessors, ASPLOS 2015 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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