

ASAP 2017 Call for Papers

The 28th International IEEE Conference on Application-specific Systems, Architectures and Processors

Seattle, Washington USA

Seattle Grand Hyatt

July 10th - 12th 2017

www.asapconference.org

The ASAP 2017 conference will cover the theory and practice of application-specific systems, architectures and processors. We will build upon traditional strengths of the conference in areas such as computer arithmetic, cryptography, compression, signal and image processing, network processing, reconfigurable computing, and all types of hardware accelerators. We especially encourage submissions in the following areas:

- **Big data analytics:** extracting and correlating information from large-scale semi-structured and unstructured data using application-specific systems.
- **Machine learning:** specialized platforms or hardware-optimized algorithms to improve the performance or efficiency of model creation and/or prediction.
- **Scientific computing:** architectures and algorithms that address scientific applications requiring significant computing power and design customization (bioinformatics, climate modeling, astrophysics, seismology, etc.).
- **Industrial computing:** systems and architectures for providing high- throughput or low latency in various industrial computing applications.
- **System security:** cryptographic hardware architectures, security processors, countermeasures against side-channel attacks, and secure cloud computing.
- **Heterogeneous systems:** applications and platforms that exploit heterogeneous computing resources, including FPGAs, GPUs, or CGRAs.
- **Design space exploration:** methods for customizing and tuning application- specific architectures to improve efficiency and productivity.
- **Platform-specific architectures:** novel architectures for exploiting specific compute domains such as smartphones, tablets, and data centers, particularly in the context of energy efficiency.

ASAP 2017 will accept 8-page full papers for oral presentations and 4-page short papers for short oral or poster presentations, with a double-blind review process. Manuscripts must not identify authors or their affiliations. An online submission page will be made available on the website and will include detailed guidelines and links to formatting templates.

Important Dates

Submissions Due: April 3 – **THERE WILL BE NO DEADLINE EXTENSION**

Author Notification: May 12

Camera Ready Due: June 2

Early Registration Ends: June 2

Conference: July 10 to 12