

# PACT2018

THE 27<sup>TH</sup> INTERNATIONAL CONFERENCE ON  
PARALLEL ARCHITECTURES AND COMPILATION TECHNIQUES  
NOVEMBER 01 - 04, CYPRUS



## Call for Papers



### About PACT

The purpose of PACT 2018 is to bring together researchers from architecture, compilers, applications and languages to present and discuss innovative research of common interest.

PACT started as a Data Flow Workshop in conjunction with ISCA 1989 but quickly evolved into a unique venue at the intersection of classical parallel architecture and compilers.

Recently, PACT widened its scope to include insights useful for the design of machines and compilers from applications such as, but not limited to, machine learning, data analytics and computational biology.

PACT solicits novel papers, workshops, tutorials, and entries to an ACM student research competition on a broad range of topics that include, but are not limited to:

- Parallel architectures and computational models
- Compilers and tools for parallel computer systems
- Multicore, multithreaded, superscalar, and VLIW architectures
- Compiler/hardware support for dealing with memory latencies
- Support for correctness in concurrent hardware and software
- Reconfigurable parallel computing
- Dynamic translation and optimization
- I/O issues in parallel computing and their relation to applications
- Parallel programming languages, algorithms and applications
- Middleware and run time system support for parallel computing
- Application-specific parallel systems
- Applications and experimental systems studies of parallel processing
- Relevant aspects of distributed computing and mobile computing
- Heterogeneous systems using various types of accelerators
- Insights from modern parallel applications such as, but not limited to, machine learning, data analytics, and computational biology for the design of parallel architectures and compilers

### Submissions

Submitted papers will be evaluated on technical merits and clarity of presentation. Papers must contain sufficient information and be organized in such a way that their technical contribution and significance can be understood by a wide audience of computer scientists.

Submitted papers must be original material that has not been previously published in another conference or journal, nor is currently under review by another conference or journal. Papers are to be submitted for double-blind review. This means that author names as well as hints of identity are to be removed from the submitted paper.

Authors of accepted papers will be invited to formally submit their supporting materials to the Artifact Evaluation Committee. The task of this committee is to assess how the artifacts support the work described in the papers. Submission is voluntary. Papers that go through the artifact evaluation process successfully will receive a seal of approval which will be printed on the first page of the papers in the proceedings.

### CONTACTS

#### General Chair

Skevos Evripidou, University of Cyprus

#### Co-Chair

Charis Theocharides, University of Cyprus

#### Program Co-Chairs

Michael O'Boyle, University of Edinburgh

Per Stenström, Chalmers

### IMPORTANT DATES

#### Paper Deadline:

April 15, 2018

#### Author Response Period:

June 4 - 6, 2018

#### Author Notification:

June 20, 2018

#### Camera Ready Final Papers:

July 20, 2018



Association for  
Computing Machinery



For more information:

<http://pactconf.org/>