

hlpp 2017

10th International Symposium on High-Level Parallel Programming and Applications

July 10-11 2017, Valladolid (Spain)



Submission deadline: April 1, 2017

Author notification: May 8, 2017

Early registration: May 31 2017

Call for Papers

Topics

HLPP 2017 invites papers on all topics in high-level parallel programming, tools, and applications. The general emphasis is on software quality, programming productivity and high-level performance models. Topics include, but are not limited to, the following aspects:

High-level programming, performance models (such as BSP, CGM, LogP, MPM) and tools

Declarative parallel programming methodologies based on functional, logical, data-flow, and other paradigms

Algorithmic skeletons, patterns, and constructive methods

High-level parallelism in programming languages and libraries (e.g. Haskell, Scala): semantics and implementation

Verification of declarative parallel and distributed programs

Efficient code generation, auto-tuning, and optimization for parallel programming

Model-driven software engineering for parallel systems

Domain-specific languages: design, implementation, and applications

High-level programming models for heterogeneous hierarchical platforms with accelerators; e.g. GPU, Xeon Phi

High-level parallel methods for large structured and semi-structured datasets

Applications of parallel systems using high-level languages and tools

Teaching experience with high-level tools and methods

Journal Special Issues

Accepted papers will be considered for publishing in a special issue of a renowned international journal. Depending on their subject, they will be selected for the *International Journal of Parallel Programming* (Springer), or for *Concurrency and Computation: Practice and Experience* (Wiley).

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