

Preface

This volume contains the papers presented at LCPC 2016: The 29th International Workshop on Languages and Compilers for Parallel Computing held on September 27-29, 2016 in Rochester, New York.

Since its founding in 1988, the LCPC workshop has been a leading venue for research on parallelizing compilers and related topics in concurrency: parallel languages, parallel programming models, runtime systems, and tools. The workshop spans the spectrum from foundational principles to practical experience, and from early ideas to polished results. LCPC encourages submissions that go outside the scope of scientific computing and enable parallel programming in new areas, such as mobile computing and data centers. The value of LCPC stems largely from its focused topics and personal interaction. This year's location, in Rochester, NY, is both scenic and convenient. September weather is beautiful, as is the University campus, located at the confluence of the Genesee River and the historic Erie Canal.

Specific topics of LCPC 2016 include:

- Compiling for parallelism and parallel compilers
- Static, dynamic, and adaptive optimization of parallel programs
- Parallel programming models and languages
- Formal analysis and verification of parallel programs
- Parallel runtime systems and libraries
- Performance analysis and debugging tools for concurrency and parallelism
- Parallel algorithms and concurrent data structures
- Parallel applications
- Synchronization and concurrency control
- Software engineering for parallel programs
- Fault tolerance for parallel systems
- Parallel programming and compiling for heterogeneous systems

There were 26 submissions. Each submission was reviewed by at least 3, and on the average 3.5, program committee members. The committee decided to accept 24 papers. The program also includes 1 invited talks.

We would like to thank Pengcheng Li and computer science staff for the help in organizing the workshop and the financial support from Huawei, IBM, and Goergen Institute of Data Science and Department of Computer Science at University of Rochester.

(This volume is generated by the EasyChair conference system.)

September 26, 2016
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