

# Foreword

It is our pleasure to welcome you to *PGAS11: Fifth Conference on Partitioned Global Address Space Programming Models*. The mission of this conference is to serve as a forum for presenting new developments related to PGAS programming models and provide researchers, application developers, vendors, and other stake holders in the PGAS community with an opportunity to exchange ideas.

A number of developments over the past year have brought partitioned global address space programming models closer to broader adoption. Coarray features have started to become available in both vendor and open source compilers for Fortran since they became part of the Fortran 2008 standard in late 2010. OpenSHMEM has attracted increasing interest in the PGAS community over the past year. In addition, new hardware platforms with communications chips that include support tailored for PGAS models have appeared on the scene. Nevertheless, the growing scale of parallel systems, the increasing importance of multithreading, and the rising popularity of accelerated computing leave no shortage of research challenges in the area of programming models for scalable parallel systems.

The PGAS11 call for papers attracted 26 submissions from Asia, Europe, and North America. The program committee accepted 15 papers that touch on a variety of topics relevant to PGAS models, including language features, implementation experiences, interoperability, dynamic load balancing, application studies, performance tools, and correctness tools. We are pleased to have keynote speeches at the conference by Pete Beckman and Mitsuha Sato. The program also includes two panels: one moderated by David Hudak that explores the challenge of growing the community use of PGAS languages, and a second by Sadaf Alam that explores whether compilers for PGAS languages are ready for broader use. Pre-conference tutorials on performance tools for PGAS languages and OpenSHMEM round out the program. We hope that you find the program thought provoking and that you value the conference as an opportunity to exchange ideas with colleagues from institutions around the world.

Putting together PGAS11 was a team effort. Most importantly, we thank the paper authors, keynote speakers, panelists, and tutorial presenters for contributing the intellectual content of the program. We are grateful for the dedication of the program committee members, who carefully read submissions and provided suggestions for improving them. We thank Yonghong Yan, the Publicity Chair, and Barbara Murray, the Local Arrangements Chair, as well as others whose efforts have been vital to making the conference a success.

Finally, we thank the National Science Foundation for providing support for students to attend the symposium.

Barbara Chapman  
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