The Sixth International Workshop on Parallel Software Tools and Tool Infrastructures (PSTI 2016) was held in conjunction with ICPP 2016, the 45th International Conference on Parallel Processing, in August 2016. Software tools continue to play an important role in the development of parallel applications. New trends in hardware pose unique new challenges that must be addressed by new techniques to ensure reliable and efficient execution of parallel programs. At the same time, existing tools and technologies are being adapted and refined to deliver exciting new insights.

We are proud to present six selected papers for PSTI 2016. The submissions cover a wide range of topics, from correctness to performance analysis tools, and from visualization to measurement techniques both for shared memory to large-scale parallel systems. We would like to thank all authors for presenting their high-quality research results, and the PSTI program committee members for an outstanding job selecting this year’s workshop program.

Josef Weidendorfer, TU Munich, Germany
Karl Fuerlinger, LMU Munich, Germany
Karen Karavanic, Portland State University, USA
PSTI 2016 Organizing Committee
PSTI 2016 Program Committee

Organizing Committee

Josef Weidendorfer, TU Munich, Germany
Karen L. Karavanic, Portland State University, USA
Karl Fuerlinger, LMU Munich, Germany

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