

## **International Workshop on Scalable High Performance Computing Systems (SHPCS)**

In the past few years, high performance computing (HPC) systems have designed from compute-centric and data-centric perspectives. For the traditional computation intensive applications, it emphasis on high computing performance of instructions. Recently, more and more scientific and analytics applications have become data intensive. For data intensive computing, new HPC system architectures, programming models, runtime systems, and tools have to be redesigned and reconstructed. Nowadays, many industry approaches supporting computation and data intensive applications have been highly successful resulting in HPC experts to explore new domains to apply them. The new designing, deploying, and using high performance systems by HPC researchers is attractive to those in industry. The 2015 International Workshop on Data Intensive Scalable Computing Systems (DISCS-2015) provides a forum for researchers and developers to discuss recent results and the future challenges of running data intensive applications on traditional HPC systems and the latest data-centric computing systems.

The goal of this workshop is to provide a forum for researchers and practitioners to discuss and share their research and development experiences and outputs on the recent results and the future challenges of current computation and data intensive applications on HPC systems, programming model, system architecture, compiler, and tools.

SHPCS seeks original contributions in all relevant areas, including but not limited to the following topics:

- New Performance Modeling, languages, and Benchmarking
- Parallel compilers, programming tools, and environments
- Parallel programming patterns
- High performance Computing software and system support for extreme scalability
- Applications with heterogeneous multi-core systems and accelerators such as ARM, GPUs, FPGAs, MICs and DSPs
- Energy issues in high performance Computing platforms

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