Message from the HCW Program Chair

Welcome to 23rd International Heterogeneity in Computing Workshop (HCW 2014) in Phoenix, Arizona. We have assembled an exciting program this year that contains a keynote talk by Prof. David Abramson, a strong lineup of research papers, and a panel. The first session focuses exclusively on the role of heterogeneity in accelerating basic linear algebra operations. The papers in this session cover topics ranging from pre-conditioners on GPUs to parallel matrix multiplication on different types of heterogeneous processors. The second session tackles problems in scheduling and resource allocation under different heterogeneous systems, including those where the energy is constrained and cores are heterogeneous. Finally, the third session presents a number of recent efforts on resource-related performance optimization.

This excellent program has been made possible by a technical program committee of 31 researchers from 10 different countries. The submissions were evaluated on the basis of their significance, novelty, and quality of presentation. Each paper was evaluated by at least three members of the program committee. The review process was rigorous and went smoothly, thanks to the timely and detailed reviews.

My special thanks go to the HCW 2014 General Chair, Prof. Uwe Schwiegelshohn and the HCW Steering Committee Chair, Prof. Behrooz Shirazi for their help in shaping the program. I would also like to thank the IPDPS 2014 Workshops Chair, Prof. Ümit Çatalyürek and the IPDPS Production Chair, Sally Jelinek Westrom, for their support in organizing the workshop and the proceedings. Finally, Vasiliy Bunakov did an outstanding job of setting up the HCW web site.

We hope that you will find the program exciting and a source of inspiration for future research and submissions to HCW.

Shoukat Ali
Elastica, Inc

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