Message from the HCW Technical Program Committee Chair

Welcome to the 28th International Heterogeneity in Computing Workshop (HCW), held in Rio de Janeiro, Brazil! Heterogeneity is, more than ever, one of the key features of modern computing systems. From HPC infrastructure to embedded systems or cloud environments, heterogeneity is pervasive. Modeling, managing, programming, and controlling such systems raise many key research problems and opportunities for innovation.

The program for this year's workshop is very exciting and addresses many challenges in the realm of heterogeneity in computing. Viktor Prasanna, the Charles Lee Powell Chair in Engineering in the Ming Hsieh Department of Electrical and Computer Engineering at the University of Southern California, will give the opening keynote talk on "Accelerating Data Science at the Edge: Exploiting Heterogeneous Processor Architectures." Following the keynote address will be technical sessions in the morning covering programming models for accelerator-based systems, and task scheduling in heterogeneous systems. The afternoon portion of the program will include a session on matrix computations on heterogeneous systems, followed by a special invited panel to conclude our program.

This great program could not have been realized without the expert contributions from a strong and diverse program committee working from nine countries. The papers were evaluated based on their significance, innovation, and technical quality. Each paper received at least three reviews and was discussed to make sure each paper was reviewed fairly. The thorough evaluation and dedicated work performed by the program committee members made this program possible, and assured it to be of the highest quality.

While I have been the primary interface for authors and interested parties, many other people were involved in making HCW possible this year. Sudeep Pasricha (serving as HCW 2019 General Chair), Behrooz Shirazi (HCW Steering Committee Chair), and H. J. Siegel (HCW Steering Committee Past Chair) made their expertise and experience available to address many aspects of pulling this program together, including scientific discussions, interactions with the IPDPS organizers, solving logistical issues, and many others. I also want to thank Mohsen Amini, from the University of Louisiana Lafayette, who did an excellent job as the Publicity Chair. Lastly, HCW 2019 is made possible by the support of the IPDPS workshop chairs, Erik Saule and Jaroslaw Zola, and the IPDPS workshops proceedings chairs Kyle Chard and Zhuozhao Li.

I sincerely hope that you will enjoy HCW 2019 and will find it to be a wonderful place to share and exchange ideas for initiating or continuing your research in preparation for the next HCW!

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