

## Message from the HCW General Chair



Welcome to the 30th International Heterogeneity in Computing Workshop (HCW). For the last three decades, *heterogeneity* has characterized the development of parallel and distributed computing systems. Now, more than ever before, *heterogeneity is a key design principle* for modern and emerging parallel and distributed computing systems. Taking advantage of *heterogeneity in computing* requires to expose and express parallelism at various software levels (tasks, threads, processes, jobs, containers, and virtual machines) as well as efficient management and exploitation of parallelism in heterogeneous parallel and distributed computing systems. These represent important challenges and exciting opportunities for accelerating scientific discovery and impactful innovation.

The program for this year's workshop was organized under the leadership of our Technical Program Chair, Dr. Ryan D. Fries from the Pacific Northwest National Laboratories, USA. Ryan has done a great job developing a very high quality, diverse, and exciting program.

An important highlight of this year's program is the keynote address of Dr. Roberto Gioiosa from the Pacific Northwest National Laboratories, USA on the topic of Hardware/Software Co-Design for Extremely Heterogeneous Systems to accelerate artificial intelligence and machine learning workloads.

Many other people were involved in making HCW possible this year. Dr. Behrooz Shirazi (HCW Steering Committee Chair) and Dr. 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, and solving logistical issues. I also want to thank Dr. John Antonio, from University of Oklahoma, USA for his great support in hosting and administering the website for the HCW workshop series and Dr. Mohsen Amini, from the University of Louisiana Lafayette, who did an excellent job as the Publicity Chair. HCW 2021 is also made possible by the support of the IPDPS workshop chairs, Dr. Erik Saule and Dr. Jaroslaw Zola, and the IPDPS workshops proceedings chairs Dr. Kyle Chard and Dr. Zhuozhao Li. As HCW 2021 will be held in digital form, we will have our keynote presentation as well as presentations for our accepted papers available online.

It is my sincere hope that you will enjoy HCW 2021 and find it inspiring and motivating for spurring your research in preparation for the next HCW!

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