

## Message from the HCW General Chair



Welcome to the 28<sup>th</sup> International Heterogeneity in Computing Workshop (HCW 2019). Heterogeneity is a defining characteristic of almost all computing systems today: from low-power Internet-of-Things platforms, through smart mobile devices, to large-scale datacenters, and supercomputers. Traditional algorithms, programming environments, and tools that have been designed for homogeneous substrates will at best achieve only a small fraction of the energy efficiency and performance that we should expect from computing in modern and especially tomorrow's highly diversified and mixed heterogeneity environments. New ideas, innovative algorithms, and specialized programming environments and tools are needed to efficiently use these new and multi-faceted architectures. HCW is a unique forum for disseminating research from both the research and industry communities, on theoretical and practical aspects of overcoming some of the most important challenges within heterogeneous computing environments.

Among the many people who have contributed to HCW 2019, several deserve special mention. In particular, I would like to thank Prof. John K. Antonio from the University of Oklahoma, who served as the HCW 2019 Program Chair. John did a fantastic job in promoting the workshop, attracting high quality submissions, and establishing an exciting technical program. Prof. Behrooz Shirazi, the Steering Committee Chair, steered HCW confidently in its 28<sup>th</sup> edition providing sound advice and guidance. Last but not least Prof. H. J. Siegel encouraged everyone to work hard on the organization of the workshop and secured its sponsorship by the U. S. Office of Naval Research.

I wish all the HCW authors, presenters, session chairs, and attendees a productive and enjoyable workshop in Rio de Janeiro, Brazil.

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