MESSAGE FROM THE CHAIRS

Welcome to EduPar 2019 proceedings, the 9th NSF/TCPP Workshop on Parallel and Distributed Computing Education. Inaugurated in 2011, EduPar has been a regular workshop of the IPDPS conference since its second year in 2012, attracting rightly deserved attention due to the importance of its focus. The workshop provides a global forum for exploring new ideas and experiences related to a seamless inclusion of Parallel and Distributed Computing (PDC) topics in Computer Science (CS) and Computer Engineering (CE) and related curricula. Growing out of its primary focus on curricula at undergraduate levels, the workshop offers a platform to discuss educational efforts also at K-12 and graduate levels, and in informal settings. This effort is in coordination with the TCPP curriculum initiative (http://www.cs.gsu.edu/~tcpp/curriculum) for CS/CE undergraduates supported by NSF and its NSF-supported Center for Parallel and Distributed Computing Curriculum Development and Educational Resources (CDER).

Parallel and Distributed Computing (PDC) now permeates most computing activities. The pervasiveness of computing devices containing multicore CPUs and GPUs, including home and office PCs, laptops, and mobile devices, make parallel programming a necessary skill in the toolbox of programmers. The emergence of web services, cloud computing, and the Internet of Things, have also made it necessary to deal with distributed computing. As academics, we must reflect on how best to help students develop competence in these areas and how to prepare them for addressing the challenges of current and emerging computing technologies.

EduPar invited unpublished manuscripts from individuals or teams from academia, industry, and other educational and research institutes from all over the world on topics pertaining to the teaching of PDC topics at university and non-university levels. We received 14 regular paper submissions of which 7 were accepted as regular papers after careful review of each submission by three to five program committee members. In addition to the talks on these papers, the EduPar Program also featured 5 invited poster presentations and three presentations of assignments ready for adoption by anyone teaching topics in parallel and distributed computing (peachy assignments). We thank David Bunde for coordinating the peachy assignments session.

The keynote was delivered by Dilma Da Silva who spoke about Responding to the Growth of Computer Science Enrollments. Prof. Da Silva presented the conclusions from studies to identify what has been driving the increased interest in CS courses and their proposed best practices to manage high enrollments while maintaining the quality of instruction.

We strive to make EduPar workshop a welcoming, engaging venue where educators from all over the world can come together, share their experiences and enrich their views on all issues surrounding PDC education. To facilitate dissemination of results and findings and to promote collaboration, we have designed the workshop program so that it maximizes interactions between participants. As in the previous workshops, we included an author Q&A panel at the end of each session, a separate poster viewing session introduced with an overview of posters and peachy assignments submissions. Last but not least, we concluded the program with the panel on diversity. We also had a session updating the community on the ongoing revision of the NSF/TCPP Curriculum, especially from the aspects of Big Data, Energy, Distributed Computing, Cross-cutting topics and Exemplars.

We are grateful to the members of the Technical Program Committee for their thorough, constructive and insightful reviews of the EduPar-19 submissions and follow-up discussions during program committee meeting. We would also like to thank the IPDPS Workshops Organization and IPDPS for the support provided in making EduPar-19 a great success.

Visit the EduPar-19 website at http://cs.gsu.edu/~tcpp/curriculum/?q=edupar for the complete online proceedings, including presentation slides of the contributed papers and all the posters.

Noemi Rodriguez, Technical Program Chair
Martina Barnas, Technical Program Vice Chair
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Technical Program Committee: