

Drikakis, D., Fossati, M., Kazakidi, A., & Emerson, D. R. (2018). Preface to the special issue on: "29th international conference on parallel computational fluid dynamics". *Computers and Fluids*, 175, 1. DOI: [10.1016/j.compfluid.2018.09.016](https://doi.org/10.1016/j.compfluid.2018.09.016)

The international Conference on Parallel CFD is an annual event devoted to the discussion of the latest advances and challenges in the field of High-Performance Computing for fluid dynamics problems and related multidisciplinary applications. The 29th edition of the conference was held May 15–17, 2017, in Glasgow, Scotland and was hosted at the Technology and Innovation Centre of the University of Strathclyde by the Department of Mechanical and Aerospace Engineering. The conference had eight plenary speakers, three parallel sessions, and six mini symposia. A total of 119 research talks were presented during the conference, for a total of 134 delegates from both Academia and Industry. Two-thirds of the presentations discussed themes in the area of parallel algorithms and software, GPU computing, and Peta-scale applications. The remaining one-third addressed the application of parallel solvers to problems in the areas of Mechanical and Biomedical Engineering, turbulent flows, combustion and multi-physics problems. This Special Issue is a collection of selected works presented at the conference. The conference was successful in delivering high-quality talks in terms of scientific relevance and in proposing approaches to address the most modern and (possibly) future demands in the area of High-Performance Computing and Computational Engineering.

We would like to express our gratitude to all the contributors to the conference for the excellent quality of their work. The local organizing committee would like to thank the ParCFD International Advisory Committee for their support and collaborative efforts in hosting a successful event. The organizers would also like to share their gratitude to the post-graduate students from the MAE department who have actively contributed to the success of the conference in many aspects of the organization and, last but not least, to the editorial office of *Computers and Fluids* at Elsevier for continuous support during the making of this special issue.

Glasgow, July 2018

Dimitris Drikakis

Marco Fossati

David Emerson

Asimina Kazakidi