

Preface

ASAP 2023

These proceedings, published by the IEEE Computer Society conference publishing services (CPS), include all the accepted papers that were presented at the 34th IEEE International Conference on Application-specific Systems, Architectures, and Processors (ASAP 2023), organized and hosted by the Faculty of Engineering of the University of Porto, in Porto, Portugal, from July 19 to 21, 2023.

The papers included in these proceedings consist of full, short, and poster papers. They are categorized and arranged based on their scheduled sessions in the IEEE ASAP'2023 program.

Additionally, the proceedings feature abstracts of the four keynote speeches and provide information regarding the ASAP'2023 organizing, steering and program committees, subreviewers, and sponsors.

We would like to thank our colleagues on the organizing committee for all their work and contributions.

On behalf of all the General, Program, and Proceedings Chairs, we would like to express here our gratitude to all the individuals and supporters that contributed to the success of IEEE ASAP'2023, namely the authors of the papers, our keynote speakers, our PC members and subreviewers, our sponsors, the ASAP steering committee, the Faculty of Engineering of the University of Porto (FEUP), and the people involved from FEUP, the student volunteers, the ASAP'2022 organizers for providing the template of the webpage and all the information requested, the people from Viagens Abreu, and the people involved from IEEE, IEEE Computer Society, and IEEE Computer Society TCVLSI - Technical Community on Very Large Scale Integration.

We wish you a pleasant reading experience with the papers presented in these proceedings.

João MP Cardoso, *University of Porto, Faculty of Engineering / INESC TEC, Portugal*
(ASAP'2023 General Chair)

Alexandra Jimborean, *University of Murcia, Spain*
(ASAP'2023 Program Co-Chair)

Nele Mentens, *Leiden University, The Netherlands, and KU Leuven, Belgium*
(ASAP'2023 Program Co-Chair)

José G. F. Coutinho, *Imperial College London, United Kingdom*
(ASAP'2023 Proceedings Chair)