
This year’s Symposium is being hosted by the Technical University of Denmark (DTU), and the venue is the university’s campus in Kgs. Lyngby; a suburb 10 kilometers north of the center of Copenhagen. DTU was founded in 1829 by H.C. Ørsted – the father of electromagnetism. DTU has 20 departments, over 1,500 faculty members, approximately 1,200 PhD students and a student enrollment of more than 7,000 students (B.Sc., B.Eng., and M.Sc.). Over the years DTU has had different facilities in Copenhagen and during the period 1962-1974, the university moved to its current spacious and green campus in Lyngby. DTU is ranked as one of the foremost technical universities in Europe.

For the third time, ASYNC is co-located with the ACM/IEEE International Symposium on Networks-on-Chip (NOCS 2012). The two conferences are back-to-back, ASYNC runs May 7-9, and NOCS runs May 9-11. We hope that attendees will find the time to attend both conferences, and we hope attendees will appreciate avoiding some travel.

We received 44 regular paper submissions, of which 18 were accepted for final publication and presentation at the symposium. The program chairs were impressed by the quality and range of submissions. The Program Committee members and external reviewers provided four in-depth reviews of each submission. The selection process emphasized novelty of contribution. We are pleased to see several newcomers amongst the authors whose papers have been accepted. The final program is wide-ranging, covering: performance analysis and optimization; processor case studies; asynchronous memories; synthesis and CAD; arithmetic circuits; GALS and signaling; and fault tolerance.

The call for papers also invited submissions for two special tracks: “Asynchrony in biology-inspired computing” and “Industrial applications of asynchronous design”. We are happy that one of the research papers accepted is a bio-track submission, and we hope that in the coming years, we will receive more such submissions. We are also pleased to have an industry session with two papers. The objective of including a dedicated industry session was to focus on the impact of asynchronous design on industry practice, rather than fundamental research contributions from industry. Accordingly, these papers showcase two practical applications of asynchronous design techniques, one in the design of a commercial processor, and the other in an industrial design flow.

To complement the papers selected for presentation, we are delighted to have invited talks by three distinguished speakers, as well as a special session with several parallel activities (tutorial, roundtable discussion and demonstrations). The invited speakers are: Prof. Kwabena Boahen (Stanford University), who will talk about a mixed-analog-digital multichip system for large-scale brain simulations, Prof. Steve Furber (Manchester University) who will talk about biologically-inspired massively-parallel computing, and Mogens Balsby (from the Danish hearing aid manufacturer Oticon) who will talk about hearing aids, which today are highly optimized multi-processor systems on chip.

The symposium would not have been possible without the help of many people: (1) Local staff at DTU. (2) Staff at IEEE and IEEE Computer Society. (3) The program committee members, who put a big effort into delivering high quality reviews as well as debating the merits of the submissions and in providing extensive, elaborate and constructive feedback to all authors, as well as the efforts of several external...
reviewers. (4) The many dedicated volunteers from the research community who donate their time to help with the organization by chairing the many specific and diverse tasks.

We would like to specially thank the following individuals: the symposium finance chair Flemming Stassen – budget and finances is the backbone of any project/organisation and it is a time consuming task; Gennette Gill for organizing a special session with several parallel activities (roundtable discussion, tutorial, and demonstrations); Peter Beerel for organizing the industrial track session; Steve Furber for accepting to give an invited talk and for accepting the task of inviting the remaining keynote speakers; Maurizio Palezi, for handling publicity and advertising; Erik Brunvand for managing the publication process; John Bainbridge and Mike Kishinevsky for their persistence in seeking industrial donations; Ken Stevens for running the Best Paper Award process; Martin Schoeben for taking care of registration and payment; Laura Miconi for setting up and maintaining the web-pages; Pia Lauridsen, Dorte Stebit and Marianne Tranberg Pii for taking care of local arrangements.

Finally we would like to thank the companies and organizations who have provided direct or indirect financial sponsorship. The list includes: DTU Informatics, Oticon, Otto Mønsteds Fond, CEA-LETI, Intel and NVIDIA.

In addition to those mentioned above we refer to the symposium website for a complete list of volunteers and sponsors (http://asyncsymposium.org or www.imm.dtu.dk/async_2012).

We wish you an exciting symposium and a memorable visit to Copenhagen, Denmark.

**General Chair**

Jens Sparsø

**Program Co-chairs**

Montek Singh

Pascal Vivet