

# Paper Submission Deadline: 23:59 JST Wednesday, February 1, 2023 Details: www.vlsisymposium.org

### Symposium Scope

The Symposium calls for papers in the following areas:

- Advanced CMOS and interconnect technologies
- · Advanced packaging, 2.5D and 3D integration
- · Advanced process and material for scaling and new devices
- Beyond CMOS, such as spin logic, optical and quantum computing
- . Biomedical devices, circuits, and systems
- Data converters
- Device physics, characterization, reliability, and modelling
- Devices and accelerators for machine learning
- . Digital circuits, hardware security, signal integrity, IOs
- · DTCO and design enablement
- . Frequency generation and clocking circuits
- Innovative Systems using FPGAs and COTS components
- . Memory technologies, devices, circuits, and architectures
- Power, analog and mixed-signal devices, and circuits
- Processors and SoCs
- Sensors, imagers, IoT, MEMS, display circuits
- Wireless and RF devices circuits and systems
- Wireline and optical transceivers, optical interconnects and processors

# **Paper Submission**

Prospective authors must submit two-page paper abstracts to the Symposium website <a href="www.vlsisymposium.org">www.vlsisymposium.org</a>. Accepted papers will be published as-submitted with no revisions permitted. Authors must follow detailed instructions provided in the "Authors" section of the website, including the Authors' Guide and Pre-publication Policy. Extended versions of outstanding papers will be invited for publication in the IEEE Transaction on Electron Devices, IEEE Journal of Solid-State Circuits, and IEEE Solid-State Circuits Letters.

#### **Focus Sessions**

In addition to the solicited topics, the Symposium will offer Focus Sessions on special areas of Technology and Circuits of joint interest, such as:

- · AR/VR/MR/Metaverse and its integration
- Automotive and Aerospace applications
- BEOL Interconnects and BPD/BSPDN
- Novel 3D memory devices to continue scaling DRAM, Flash, and other NVM
- New Computing
- 3D Packaging Technologies and System Integration (Thermal management)

## **Highlights**

The 6-day Symposium will offer the following events in addition to the technical sessions:

- Plenary Sessions
- Demo Session for outstanding papers
- Full-Day Short Courses on key VLSI topics
- Evening Panels
- Full-Day Forum
- Workshops

## **Best Student Paper Award**

Selection will be based on quality of the paper and presentation at the Symposium. The winning student will be presented with a certificate and monetary award at the 2024 VLSI Symposium opening session. At time of submission, the student must be enrolled as a full-time student, be the leading author and presenter of the paper, and indicate consideration for the award.

#### **Contacts**

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Symposium Chairs:
Katsura Miyashita, Toshiba Electronic Devices & Storage Co.
Yusuke Oike, Sony Semiconductor Solutions

Symposium Co-Chairs: Gosia Jurczak, LAM Research Borivoje Nikolić, University of California, Berkeley Program Chairs:
Takaaki Tsunomura, Tokyo Electron Limited
Mototsugu Hamada, The University of Tokyo

*Program Co-Chairs:* Vijay Narayanan, IBM Ron Kapusta, Analog Devices, Inc. Stay updated & informed by joining the LinkedIn Group VLSI Technology & Circuits

