2027 VLSI TSA

International VLSI Symposium on Technology, Systems and Applications

April 12–16, 2027 | Hsinchu, Taiwan

TSA Call for Papers

Paper Submission Deadline has been extended until 23:59 (GMT+8) on Sunday December 13, 2026

The 2027 International VLSI Symposium on Technology, Systems and Applications (VLSI TSA 2027) will be held on April 12–16, 2027, at the Ambassador Hotel Hsinchu, Taiwan, with an optional excursion scheduled for April 16. Original and unpublished papers on all aspects of advanced VLSI technology and applications are solicited.

SCOPE

■ **ADVANCED LOGIC TECHNOLOGY**
- Front-end Silicon CMOS and Foundry Platform Technology
- Advanced Process Modules and Nano-patterning, including EUV
- Advanced BEOL/Packaging and 2.5D/3D Heterogeneous Integration
- Advanced Manufacturing Technology, Metrology and Yield

■ **NEUROMORPHIC, IN-MEMORY and NOVEL COMPUTING**
- Neuromorphic Devices and Technologies for AI Hardware and In-Memory Computing
- Probabilistic, Stochastic and Optimization Computing
- Emerging Computing Architecture and Hardware Primitives

■ **POWER, MILLIMETER WAVE AND ANALOG TECHNOLOGY**
- Power Devices and Technologies Including Silicon and Wide Band Gap
- Analog/RF IC Device Technologies

■ **RELIABILITY OF SYSTEMS and DEVICES**
- Reliability Physics, Characterization and Test

■ **EMERGING DEVICE and COMPUTE TECHNOLOGY**
- Quantum Phenomena and Information Technologies
- Beyond Silicon Technologies including Low Dimensional Materials and Oxide Semiconductors

■ **MODELING AND SIMULATION**
- Modeling and Simulation, including DTCO

■ **OPTOELECTRONICS, DISPLAYS, and IMAGING SYSTEMS**
- Silicon Photonics and Integrated Optoelectronic Devices

■ **MEMORY TECHNOLOGY**
- Advanced Memory: DRAM, FLASH, Emerging Memories such as Resistive, Spintronic and Ferroelectric Devices

■ **SENSORS, MEMS, and BIOELECTRONICS**
- MEMS, Imagers and Sensors
- Flexible and Organic Electronics

PAPER SUBMISSION GUIDELINES

1. Camera-ready manuscript (2 pages including figures and tables) should be submitted electronically in PDF format through the symposium website at https://expo.itri.org.tw/2027VLSITSA/TSA/Submission before November 22, 2026 (23:59 GMT+8).
2. Accepted papers MUST be presented by one of the authors in person at the symposium to guarantee publication in the symposium proceedings. Presentations will be in English and will be limited to 15 minutes, with an additional 5 minutes for discussion.
3. Any changes on the title or author list or withdrawal after acceptance must be approved by Mentors or TSA Program Chairs.
4. All papers presented at the symposium will be published in the proceedings as submitted without revisions. Authors of accepted papers must transfer copyright to IEEE by utilizing the electronic IEEE Copyright Form (eCF) for inclusion in the IEEE Xplore database.
5. Author Registration Policy:
   - One FULL Registration covers the publication of up to two accepted papers.
   - Each accepted paper must be covered by a valid full registration in order to be included in the symposium proceedings.
   - If a valid FULL Registration has not been received and processed for an accepted paper, the symposium organizers will contact the authors before the paper is removed from the proceedings.
6. No-show papers will not be included in the symposium proceedings, nor will they be submitted to the IEEE Xplore database.

STUDENT SUBSIDY

Student Travel Financial support for attending VLSI TSA 2027 is available for full-time student presenters living outside of Taiwan.

BEST STUDENT PAPER AWARD

The selection will be based on the paper quality evaluated by technical committee members, as well as the presentation of the paper at the symposium. The paper should be presented by the key author who is a full-time student at the time of paper presentation. The Best Student Paper Award will be presented to the winning student at the next year's symposium.

LATE NEWS PAPERS (Submission Start Date: January 25, 2027)

A very limited number of quality Late News Papers will be accepted. Note that Late News Papers are not eligible for the best student paper award.

IMPORTANT DATES (Note: All are based on Taiwan time, which is eight hours ahead of Greenwich Mean Time (GMT+8).)

Regular Paper Submission Deadline	~~November 22~~, 2026 December 13, 2026
Late News Papers Submission Deadline	February 10, 2027
Notification of Acceptance (Regular Papers)	January 27, 2027
Notification of Acceptance (Late News Papers)	February 18, 2027
Final Paper Submission Deadline	February 28, 2027
Author Registration Deadline	February 28, 2027

TSA Program Chairs:

Ionut Radu, Soitec

Wei-Chung Lo, Industrial Technology Research Institute