

# GLSVLSI 2024

June 12-14, 2024, Tampa Bay Area, FL, USA

<http://www.glsvlsi.org/>

Sponsored by ACM SIGDA



## General Chairs

Inna Partin-Vaisband

*University of Illinois Chicago, USA*

Srinivas Katkooori

*University of South Florida, USA*

## Program Chairs

Lu Peng

*Tulane University, USA*

Boris Vaisband

*McGill University, Canada*

## Finance Chair

Hao Zheng

*University of South Florida, USA*

## Special Session Chairs

Soheil Salehi

*University of Arizona, USA*

Kanad Basu

*University of Texas Dallas, USA*

## Publications Chair

Touraj Nikoubin

*University of Texas Dallas, USA*

## Web & Registration Chairs

Anahita Asadi

*University of Illinois Chicago, USA*

Yaroslav Popryho

*University of Illinois Chicago, USA*

## Steering Committee

Iris Bahar	Laleh Behjat
Sanjukta Bhanja	Erik Brunvand
Ronald DeMara	Deming Chen
Yiran Chen	Jie Han
Houman Homayoun	Yehea Ismail
Alex Jones	Hai (Helen) Li
Fabrizio Lombardi	Enrico Macii
Martin Margala	Tinoosh Mohsenin
Gang Qu	Avesta Sasan
Ioannis Savidis	Ken Stevens
Baris Taskin	Himanshu Thapliyal
Zhiyuan Yan	Weisheng Zhao
Victor Zhirnov	Hai Zhou

## Call for Late Breaking Research Papers: 2 page limit

Original, unpublished **late breaking research** papers describing preliminary research in the general areas of VLSI and hardware design are solicited. Please visit <http://www.glsvlsi.org/> for more information.

### Program Tracks:

- **VLSI Circuits and Design:** ASIC and FPGA design, microprocessors/micro-architectures, embedded processors, high-speed/low-power circuits, analog/digital/mixed-signal systems, NoC, SoC, IoT, interconnects, memories, bio-inspired and neuromorphic circuits and systems, BioMEMs, lab-on-a-chip, biosensors, CAD tools for biology and biomedical systems, implantable and wearable devices, machine-learning for VLSI design and optimization
- **IoT and Smart Systems:** circuits, computing, processing, and design of IoT and smart systems such as smart cities, smart healthcare, smart transportation, smart grid etc.; cyber-physical systems, edge computing, machine learning for IoT, TinyML.
- **Computer-Aided Design (CAD):** hardware/software co-design, high-level synthesis, logic synthesis, simulation and formal verification, layout, design for manufacturing, algorithms and complexity analysis, physical design (placement, route, CTS), static timing analysis, signal and power integrity, machine learning for CAD and EDA design.
- **Testing, Reliability, Fault-Tolerance:** digital/analog/mixed-signal testing, reliability, robustness, static/dynamic defect- and fault-recoverability, variation-aware design, learning-assisted testing.
- **Emerging Computing & Post-CMOS Technologies:** nanotechnology, quantum computing, approximate and stochastic computing, sensor and sensor networks, post CMOS VLSI.
- **Hardware Security:** trusted IC, IP protection, hardware security primitives, reverse engineering, hardware Trojans, side-channel analysis, CPS/IoT security, machine learning for HW security.
- **VLSI for Machine Learning and Artificial Intelligence:** hardware accelerators for machine learning, novel architectures for deep learning, brain-inspired computing, big data computing, reinforcement learning, cloud computing for Internet-of-Things (IoT) devices.
- **Microelectronic Systems Education:** Pedagogical innovations using a wide range of technologies such as ASIC, FPGA, multicore, GPU, TPU, educational techniques including novel curricula and laboratories, assessment methods, distance learning, textbooks, and design projects, Industry and academic collaborative programs and teaching.

**Paper submission deadline:**

**March 17, 2024 (11:59pm EST)**

**Acceptance Notification:**

**March 28, 2024**

**Camera-Ready:**

**April 12, 2024**

**Paper Submission:** Authors are invited to submit short (2 pages maximum), original, unpublished papers on late breaking research along with an abstract of at most 200 words. To enable blind review, the author list should be omitted from the main document. Previously published papers or papers currently under review for other conferences/journals should NOT be submitted and will not be considered. Electronic submission in PDF format to the <http://www.glsvlsi.org> website is required. Author and contact information must be entered during the submission process.

**Paper Format:** Submissions should be in camera-ready two-column format, following the ACM proceedings specifications and the classification system (<http://www.acm.org/publications/class-2012>)

**Paper Publication and Presenter Registration:** Papers will be accepted for poster presentations at the symposium. Every accepted paper MUST have at least one registered author by the time the camera-ready paper is submitted; at least one of the authors is expected to present the paper at the symposium.

By submitting your article to an ACM Publication, you are hereby acknowledging that you and your co-authors are subject to all ACM Publications Policies, including ACM's new Publications Policy on Research Involving Human Participants and Subjects. Alleged violations of this policy or any ACM Publications Policy will be investigated by ACM and may result in a full retraction of your paper, in addition to other potential penalties, as per ACM Publications Policy.

Please ensure that you and your co-authors obtain an ORCID ID, so you can complete the publishing process for your accepted paper. ACM has been involved in ORCID from the start and we have recently made a commitment to collect ORCID IDs from all of our published authors. The collection process has started



and will roll out as a requirement throughout 2022. We are committed to improve author discoverability, ensure proper attribution and contribute to ongoing community efforts around name normalization; your ORCID ID will help in these efforts.