

DCAS 2025



The 18th IEEE Dallas Circuits and Systems (DCAS) conference will be held at University of Texas at Arlington from April 11 - April 13, 2025. This conference is co-sponsored by the IEEE Circuits and Systems (CAS) Society, the IEEE Solid-State Circuits Society, the IEEE Electron Devices Society, UT Dallas, UNT and UTA will feature a comprehensive program of technical papers, poster sessions, keynote speakers and workshops. The IEEE DCAS 2025 conference contributions will focus on the following eight tracks.

- VLSI Design & Hardware security
- · Sensors & Embedded systems
- . Emerging Device and Circuit **Technologies**
- Circuits and Systems for Machine Learning

- · Analog and mixed-signal circuits and systems
- RF circuits and systems
- Power systems, power electronics and power management integrated circuits
- Biomedical circuits and systems

In addition to these tracks, the conference will also encourage submissions in areas including but not limited to the following.

- VLSI design and methodologies
- Analog and RF mixed signal design and ICs
- Synthesis, DFT and Verification Methodologies
- Design for Manufacturability and Yield
- Hardware-Software Co-Design
- Device-Circuit Co-Design
- Power Systems and Power Electronics
- Computer Aided Design
- Low-Power Design
- Temperature-Aware Design
- Devices and Modeling
- Communications
- Nanoscale Computing and Nano-
- **Electronics Hardware Security**

- · High Performance Computing Quantum Computing and Spintronics
- Multi-core and Parallel Architectures
- Networks-on-chip
- Embedded Systems
- Sensors and Sensor Arrays
- Signals and Systems
- Reconfigurable Systems
- Education in Circuits and Systems
- Internet of Things
- Cyber-Physical Systems
- Artificial Intelligence Circuits and
- Architectures
- Packaging

- **Emerging Technologies**
- Big Data Processing
- Compressive Sensing
- Cognitive Computing and Deep Learning
- Smart Systems for Automotive
- Personalized Healthcare Systems
- Sustainable Computing and Systems
- Innovative Neurotechnology
- **Energy-Aware Systems and Services**
- Power Management, Energy Harvesting, and Wireless
- Power 5G and Multi-Gigabit Optoelectronics Comm
- Audio and Video Processing

Accepted Papers

- Accepted regular and short papers will be archived in IEEE Xplore.
- Each published paper requires a full conference registration.
- All papers must be presented by an author or coauthor of that paper at the conference.
- Grants will be awarded to students of selected papers to offset registration costs.

Submission Formats

• Regular papers: 4-6 pages

Short papers: 2 pages

• Posters: 1 page







TEXAS INSTRUMENTS Cadence











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