

Apr 14-16, 2023 // Dallas, Texas, United States

## CALL FOR PAPERS

The 16th IEEE Dallas Circuits and Systems (DCAS) conference will be held from April 14 - April 16, 2023. The conference will be held as a hybrid event at the University of North Texas (UNT). For those who wish to attend DCAS 2023 in-person, the on-site events will be held at UNT during Apr 14-16, 2023. 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 and UNT and will feature a comprehensive program of technical papers, poster sessions, keynote speakers and workshops. The IEEE DCAS 2023 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 Neurotechnologies
- 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



# UNIVERSITY OF NORTH TEXAS

Paper submission deadline

Dec 16, 2022

Author notification

Feb 24, 2023

Camera-ready paper submission and author registration

Mar 10, 2023

## DCAS 2023 ORGANIZING COMMITTEE

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University of North Texas  
[Gayatri.Mehta@unt.edu](mailto:Gayatri.Mehta@unt.edu)

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[Jungkwun.Kim@unt.edu](mailto:Jungkwun.Kim@unt.edu)

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University of Texas Tyler  
[pindic@uttyler.edu](mailto:pindic@uttyler.edu)

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[Colleen.Bailey@unt.edu](mailto:Colleen.Bailey@unt.edu)

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[sara.tehranipoor@mail.wvu.edu](mailto:sara.tehranipoor@mail.wvu.edu)

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[stabassum@uttyler.edu](mailto:stabassum@uttyler.edu)

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[zxh088000@utdallas.edu](mailto:zxh088000@utdallas.edu)

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[naghmeh.karimi@umbc.edu](mailto:naghmeh.karimi@umbc.edu)

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University of North Texas  
[Hung.Luyen@unt.edu](mailto:Hung.Luyen@unt.edu)

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[psundaravadivel@uttyler.edu](mailto:psundaravadivel@uttyler.edu)

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- Aparna Shrivastava  
University of Texas at Dallas  
[aparna.shrivastava@utdallas.edu](mailto:aparna.shrivastava@utdallas.edu)

### Content Manager:

- Anjani Pagadala  
University of Texas at Dallas  
[nagadurgasaianjani.pagadala@utdallas.edu](mailto:nagadurgasaianjani.pagadala@utdallas.edu)



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[www.DCAS2023.com](http://www.DCAS2023.com)

