

“Innovating the Future: Advancements in SoC and Emerging Technologies”



ISOCC 2023 20th International SoC Design Conference

October 25(Wed.)~28(Sat.), 2023
Ramada Plaza Jeju Hotel, Korea

CALL FOR PAPERS

ABOUT ISOCC

For over two decades, ISOCC has been a premier global forum for researchers in academia, industry, and institutes to showcase the latest innovations and trends in the semiconductor system-on-a-chip area. With a focus on presenting new advanced concepts and developments in analog and digital circuit and system design, theory, simulation, modeling, experimental implementations and experiences, and emerging technologies, ISOCC continues to be the leading conference in this field.

The 20th International SoC Conference (ISOCC 2023) will be held from October 25 to 28, 2023 at the Ramada Plaza Jeju Hotel in Jeju Island, Korea. Jeju Island is a stunning location, recognized as a national biosphere conservation area in 2002, a World Natural Heritage in 2007, and a 2010 World Geological Park Certification. It is the only area in the world that has achieved all three designations. Moreover, Jeju Island is rich in diverse natural landscapes, including islands, volcanoes, waterfalls, beaches, national parks, caves, and forests.

ISOCC 2023 is financially co-sponsored by IEEE CAS Society. All accepted papers will be published in the conference proceedings and will be submitted for inclusion in IEEE Xplore. We also welcome proposals for tutorials and special sessions. We hope you will join us at ISOCC 2023 for engaging discussions, insightful presentations, and memorable experiences. We look forward to seeing you in Jeju Island.

TOPICS OF INTEREST

Topics include, but are not limited to:

- Analog Circuits

- Analog Circuits
- Amplifiers and Filters
- Power Management Circuits

- Data Converters

- Analog-to-Digital Converter
- Digital-to-Analog Converters
- Analog Circuits for Data Converters

- RF/Microwave/Wireless

- RF Circuits and Transceivers
- Microwave and Millimeter-Wave Circuits
- Wireless Communication Circuits

- Wireline

- High-Speed Interface
- Wireline Link

- Digital Circuits, Architecture, and Systems

- Multimedia Systems and Image Processing Applications
- Digital Signal Processing and Communication Systems
- Embedded Software and Systems
- Hardware Security Circuits
- Memory Circuits and Systems

- Machine Learning and AI

- Machine Learning/AI Algorithms
- Systems and Architectures for Machine Learning/AI
- Machine Learning Accelerators and Circuits
- Near-Memory and In-Memory Computation for AI
- Neuromorphic Architectures and Processors

- SoC Design Methodology and CAD

- Software and Algorithm
- HW-SW Co-Design
- Embedded SoC and FPGA Design
- SoC Testing and Design Verification
- Reliability in Circuits and Systems
- Modeling and Simulation

- Circuits and Systems for Emerging Technologies

- Neuromorphic Devices and Circuits
- Sensory Circuits and Systems
- Biomedical Circuits and Systems
- Automotive Circuits and Systems
- IoT/IoE Circuits and Systems
- 3-D ICs and SoC Packages
- Emerging Device Based Circuits

IMPORTANT DATES

- Submission of Special Session and Tutorial Proposals: ~~June 9, 2023~~ **June 23, 2023**
- Notification of Acceptance of Special Session and Tutorial Proposals: ~~June 16, 2023~~ **June 30, 2023**
- Submission of Regular Session and Special Session Full Papers: ~~June 30, 2023~~ **July 28, 2023**
- Notification of Acceptance of Regular Session and Special Session Full Papers: **August 18, 2023**
- Author Registration: **September 8, 2023**
- Early Registration: **September 8, 2023**
- Submission of Final Papers (for all accepted papers): **September 8, 2023**
- On-site Registration: **October 25-27, 2023**

PAPER SUBMISSION

A complete 2-page manuscript must be submitted electronically in PDF format (in Standard IEEE double-column format posted on the conference website). Only electronic submissions will be accepted. Accepted papers will be submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements. For more information, please refer to the conference website: <http://www.isocc.org>

International Organizing Committee

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Venue - Ramada Plaza Jeju Hotel



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Secretariat

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