

The 6th IEEE International Conference on Artificial Intelligence Circuits and Systems

www.aicas2024.org

 APRIL 22-25, 2024

 ABU DHABI, UAE

CONFERENCE THEME

Circuits and Systems for Neuro-Inspired Cognitive and Learning Abilities

ABOUT AICAS

Artificial Intelligence (AI) is driving a revolution in information technology as well as in many industries. New computing paradigms are required to support the emerging AI algorithms and applications, running on a diversity of platforms, from edge devices to cloud servers and from circuit level to system level. Addressing this challenge and opportunity, the AICAS conference has been established as the premier conference of the IEEE Circuits and Systems Society to promote and facilitate state-of-the-art research, innovation, and development activities at the frontiers of artificial intelligence circuits and systems. It serves as an excellent platform allowing world scholars, technology researchers, and industry to exchange experiences, demonstrate their studies, and further advance AI circuits and systems technologies.

AICAS comes for the first time to Region 8 of IEEE. Abu Dhabi, the venue for AICAS 2024, is a vibrant city featured at the top of safe, clean, and crime-free destinations with cutting-edge technology, infrastructure, and excellent accommodation options. It offers an authentic taste of Arabian culture and heritage and exciting things to do.

The technical program will feature keynote talks, tutorials, regular lecture and poster sessions, special sessions, live demos, and exhibitions. Lecture and poster sessions will be treated equally in terms of review process.

Prospective authors are invited to submit anonymously, via the conference website, 5-page full papers reporting original work. Proposals for special sessions, live demos, and tutorials are welcome.

Submitted papers must describe original work that has not been submitted to other Journals or conferences. Authors are expected to present their papers at the conference. While the conference proceedings will be submitted to the IEEE Xplore® digital library, special issues based on a selection of extended versions of the best presented papers will be submitted for publication in IEEE T-CAS-I and T-BioCAS journals.

The three-day program of AICAS 2024 is multidisciplinary in nature, including but not limited to the following topics:

TOPICS OF INTEREST

- Advanced neural network designs
- AI for Circuits and systems
- Architectures for AI computing
- Autonomous/unmanned vehicles and drones
- Circuits and systems for AI
- Computer vision algorithms and architectures
- Deep/machine learning AI algorithms
- Deep/machine learning for wireless communications
- Emerging applications: internet of things, healthcare, smart factories, environment, etc
- Emerging devices and materials for AI
- Hardware/software co-design and design automation for AI systems
- Metaverse and AR/VRa
- Neuromorphic circuits, processors, and systems and their applications
- Recommendation systems, language/text processing
- Robotics and automation
- Tools/platforms for AI

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SECRETARIAT

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IMPORTANT DATES

Oct. 20 / Nov. 20, 2023
Submission / Acceptance
Notification of Tutorial Proposals

Oct. 20 / Nov. 20, 2023
Submission / Acceptance
Notification of Special
Session Proposals

Nov. 23, 2023
Submission of Regular /
Special Session Papers and
Live Demos

Jan. 15, 2024
Notification of
Paper Acceptance

Feb. 15, 2024
Submission of
Camera-ready Papers