

# **The 16th International Conference on Genetic and Evolutionary Computing (ICGEC-2024)**

August 28-29, 2024, Miyazaki, Japan

## **Special Session on “Circuit and Embedded System Design for Intelligent Computing and Signal Processing Technologies”**

### **Call for Papers**

**Organizers:** Prof. Chih-Peng Fan, Prof. Yu-Cheng Fan, and Associate Prof. Liang-Bi Chen

In recent years, the AI-based deep-learning digital image processing and advanced signal processing technologies have revealed the extreme significance in smarter consumer products. To develop intelligent consumer-electronics technologies for the next-generation autonomous vehicles and smarter home/life products, the intelligent edge devices must strengthen their edge computing capability dramatically by using advanced and effective signal processing methodologies, which will involve the deep-learning based object detection and classification technologies, hardware-based deep-learning accelerator design, advanced edge-based digital image processing technology, advanced edge-based digital signal design and analysis technology, etc. By using the intelligence and emerging edge computing based circuit and system designs, the next-generation consumer-electronics products will effectively raise and expand the application fields in our daily life.

**Topics of interest include but are not limited to the following:**

1. Artificial Intelligence
2. Learning Based Design
3. Intelligent Edge Computation
4. Advanced Image Processing Technologies
5. Advanced Signal Processing Technologies
6. Edge-Based Deep-Learning Acceleration

### **Submissions:**

Papers should follow the template announced on the official ICGEC-2024 conference website (<https://icgec24.github.io/>) and be submitted via email to session organizer Prof. Chih-Peng Fan ([cpfan@dragon.nchu.edu.tw](mailto:cpfan@dragon.nchu.edu.tw)), Prof. Yu-Cheng Fan ([skystar@ntut.edu.tw](mailto:skystar@ntut.edu.tw)) and Associate Prof. Liang-Bi Chen ([liangbichen@gms.npu.edu.tw](mailto:liangbichen@gms.npu.edu.tw); [liangbi.chen@gmail.com](mailto:liangbi.chen@gmail.com)).

### **Conference Proceeding Information:**

The conference proceedings will be published in the book series of Lecture Notes in Electrical Engineering by Springer. Normally, papers in this series are indexed by EI and Scopus.

**Important Dates:** (If ICGEC-2024 extends the dates, follow those dates announced on the website)

Paper submission deadline: **June 6, 2024 (Final Extension)**

Acceptance notification: **June 30, 2024**

Camera-ready paper due: **July 8, 2024**

Early bird registration deadline: **July 8, 2024**

**For more information:**

Please visit the ICGEC-2024 official websites <https://icgec24.github.io/> or contact the organizers of this invited session:

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