# 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 (<a href="https://icgec24.github.io/">https://icgec24.github.io/</a>) and be submitted via email to session organizer Prof. Chih-Peng Fan (<a href="mailto:cpfan@dragon.nchu.edu.tw">cpfan@dragon.nchu.edu.tw</a>), Prof. Yu-Cheng Fan (<a href="mailto:skystar@ntut.edu.tw">skystar@ntut.edu.tw</a>) and Associate Prof. Liang-Bi Chen (<a href="mailto:liangbichen@gms.npu.edu.tw">liangbichen@gms.npu.edu.tw</a>; <a href="mailto:liangbichen@gms

#### **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: May 31, 2024
Acceptance notification: June 10, 2024
Camera-ready paper due: June 17, 2024
Early bird registration: June 17, 2024

#### For more information:

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

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