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), Prof. Yu-Cheng Fan (skystar@ntut.edu.tw) and Associate Prof. Liang-Bi Chen (liangbichen@gms.npu.edu.tw; 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: **May 31, 2024 (Extended)**

Acceptance notification: **June 10, 2024**

Camera-ready paper due: **June 17, 2024**

Early bird registration deadline: **June 17, 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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