

# ICGEC-2024 CALL FOR PAPER

## The 16th International Conference Genetic and Evolutionary Computing

August 28-30, 2024  
Miyazaki, Japan



## THEMES

We invite submissions of original research papers for the conference tracks. Topics of interest include, but not to limited to:

### Topic I: Genetic Computing

- Genetic Algorithm & Programming
- Genetics-based Machine Learning and Learning Classifier Systems
- Empirical studies of genetic programming performance and behavior
- Hybrid architectures including genetic programming component

### Topic II: Evolutionary Computing

- Evolutionary Design and Application
- Evolutionary of tree or graph structures
- Evolutionary Combinational and Multiobjective Optimization
- Evolutionary Strategies, Evolutionary Programming
- Evolutionary Scheduling and Routing
- Bioinformatics and Computational Biology

### Topic III: Evolutionary Computing in DX

- Swarm Intelligence and Optimization
- Ant Colony Optimization and Swarm Intelligence
- Artificial Intelligence and Decision Support Systems
- Intelligent Information Fusion and Data mining
- Intelligent Database Systems
- Knowledge Discovery and Management
- Neural Networks and its Applications
- Pattern Recognition and Self-Adaptation Techniques - Intelligent Computer Vision and Scientific Visualization
- Application of Data Science

### Topic IV: Grid Computing

- Grid Resource Management and Task Schedule
- Grid Trust and Security
- Distributed and Parallel Computing
- Distributed Intelligent Processing
- Peer-to-Peer Architecture
- Big Data Analysis and Computing

### Chairs

#### Honorary Chairs

- Tsuyomu Ikenoue, University of Miyazaki, Japan
- Jeng-Shyang Pan, Shandong University of Science and Technology, China

#### Advisory Committee Chairs

- Hiromitsu Hama, Osaka Metropolitan University, Japan
- Peng Shi, University of Adelaide, Australia (Tentative)
- Toshiaki Itami, Fukuyama University
- Etsuo Chosa, University of Miyazaki (Tentative)
- Pyke Tin, University of Miyazaki, Japan

#### Conference Chairs

- Hiroshi Sameshima, University of Miyazaki, Japan (Tentative)
- Jerry Chun-Wei Lin, Western Norway University of Applied Sciences, Norway

#### Program Committee Chairs

- Thi Thi Zin, University of Miyazaki, Japan
- Chin-Shiuh Shieh, National Kaohsiung University of Science and Technology, Taiwan
- Yu-Cheng Fan, National Taipei University of Technology, Taiwan (Tentative)

#### Invited Session Chairs

- Chutima Tantikitti, Prince of Songkla University, Thailand
- Raja Sudhakaran, Vellore Institute of Technology, India
- Tien-Wen Sung, Fujian University of Technology, China (Tentative)
- Chih-Peng Fan, National Chung Hsing University, Taiwan (Tentative)
- Takahiro Ogawa, Hokkaido University, Japan (Tentative)
- Tetsuya Shimamura, Saitama University, Japan (Tentative)

#### Publication Chairs

- Thi Thi Zin, University of Miyazaki, Japan
- Shu-Chuan Chu, Shandong University of Science and Technology, China (Tentative)

#### Local Organizing Chairs

- Hisaaki Yamaba, University of Miyazaki, Japan (Tentative)

#### Finance Chairs

- Yun-Chi Huang, Taiwan Ubiquitous Information CO., LTD

### Publication

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. The excellent papers presented and published in ICGEC 2024 will be recommended to the following special issues (SCI) with more than 60% extension.

1. Applied Science-Basel (SCI, IF: 2.474)

Special Issue: Integrated Artificial Intelligence in Data Science

[https://www.mdpi.com/journal/applsci/special\\_issues/AI\\_Data\\_Science](https://www.mdpi.com/journal/applsci/special_issues/AI_Data_Science)

2. Mathematical Biosciences and Engineering (SCI, IF:1.285)

Special Issue: Recent Advancements in Cognitive Green Computing for Smart Cities

<https://www.aimspress.com/mbe/article/5914/special-articles>

3. Journal of Internet Technology (SCI, IF: 1.3)

Special Issue: Current Trends and the Future of Internet of Things (IoT) in Industry and Enterprise <https://jit.ndhu.edu.tw/announcement/view/47>

4. Electronics (SCI, IF: 2.9)

Special Issue: Green Communications and Networks

[https://www.mdpi.com/journal/electronics/special\\_issues/TNB4X30IB5](https://www.mdpi.com/journal/electronics/special_issues/TNB4X30IB5)

### Paper Submissions

Papers reporting original and unpublished research results on the above and related topics are solicited. For detailed paper format and submission instructions, please visit the conference website: <https://icgec24.github.io>

### Important Dates

Paper submission deadline:

April 30, 2024

Invited session application deadline:

April 15, 2024

Acceptance notification:

May 31, 2024

Camera-ready papers due:

June 10, 2024

