

# ICGEC-2023 Call for Paper

## The 15th International Conference Genetic and Evolutionary Computing

October 6-8, 2023, Kaohsiung, Taiwan (Hybrid)



Tourism Bureau of Kaohsiung City Government

### Honorary Chairs

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### Finance Chairs

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

### Contact Us

URL: <https://icgec23.github.io>, <http://bit.nkust.edu.tw/~icgec23>

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### Themes

We invite submissions of original research papers for the conference tracks. Topics of interest include, but not 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 Multi-Objective Optimization
- Evolutionary Strategies, Evolutionary Programming
- Evolutionary Scheduling and Routing
- Bioinformatics and Computational Biology

#### Topic III: Evolutionary Computing

- 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

### 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 2023 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://icgec23.github.io>, <http://bit.nkust.edu.tw/~icgec23>

### Important Dates

Paper submission deadline: **July 31, 2023**

Invited session application deadline: **July 31, 2023**

Acceptance notification: **August 15, 2023**

Camera-ready papers due: **September 1, 2023**

