

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

Václav Snášel, Technical University of Ostrava, Czech Republic

Jeng-Shyang Pan, Shandong University of Science and Technology, China

Advisory Committee Chairs

Tien-Chin Wang, National Kaohsiung University of Science and Technology, Taiwan

Conference Chairs

Jerry Chun-Wei Lin, Western Norway University of Applied Sciences, Norway

Mong-Fong Horng, National Kaohsiung University of Science and Technology, Taiwan

Zhigeng Pan, Nanjing University of Information Science and Technology, China

Program Committee Chairs

Chin-Shiuh Shieh, National Kaohsiung University of Science and Technology, Taiwan

Shu-Chuan Chu, Shandong University of Science and Technology, China

Rajesh K Shukla, Oriental Institute of Science and Technology, India

Gautam Srivastava, Brandon University, Canada

Invited Session Chairs

Jimmy Ming-Tai Wu, Shandong University of Science and Technology, China

Shih-Pang Tseng, Changzhou College of Information Technology, China

Yendeng Huang, Changzhou College of Information Technology, China

Fuquan Zhang, Minjiang University, China

Jia Zhao, Nanchang Institute of Technology, China

Publication Chairs

Tien-Wen Sung, Fujian University of Technology, China

Pei Hu, Shandong University of Science and Technology, China

Local Organizing Chairs

Shi-Huang Chen, Shu-Te University, Taiwan

Tien-Szu Pan, National Kaohsiung University of Science and Technology, Taiwan

Chien-Liang Chiu, National Kaohsiung University of Science and Technology, Taiwan

Finance Chairs

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

Contact Us

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

Email: icgec23@gmail.com

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

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

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

