

# 2023 International Annual Conference on Complex Systems and Intelligent Science (CSIS-IAC)



October 20~22, 2023, Shenzhen, China

## Call for Papers

<http://www.csisiac.org>

CSIS-IAC 2023 aims to provide a high-level international forum for scientists, researchers, educators, industrial professionals, and students worldwide to present state-of-the-art research results, address new challenges, and discuss trends in the field.

## Committees

- **Steering Committee Chair**  
Feiyue Wang
- **Steering Committee Members**  
Philip Chen  
Zengguang Hou  
Zhongsheng Hou  
Robert Kozma  
Guo-Ping Liu  
Jennie Si  
Yongduan Song  
Changyin Sun  
Jie Tian  
Jun Wang  
Dajun Zeng
- **Advisory Committee Chair**  
Guangren Duan
- **Advisory Committee Members**  
Tamer Basar  
Dimitri Bertsekas  
Tianyou Chai  
Kenji Doya  
Minyue Fu  
Yaochu Jin  
Chenghong Wang  
DeLiang Wang  
Paul J. Werbos  
Shengli Xie  
Xin Yao  
Gary G. Yen  
Huaguang Zhang  
Qin Zhang
- **General Chair**  
Derong Liu
- **General Co-Chairs**  
Irwin King  
Marios Polycarpou
- **Program Chairs**  
Ping Guo  
Zhang Yi
- **Program Co-Chairs**  
Cesare Alippi  
Qiufang Fu  
Hong Qu  
Xin Xu
- **Regional Chairs**  
Sabri Arik  
Andries P. Engelbrecht  
Tingwen Huang  
Eugenius Kaszkurewicz  
Johan Suykens  
Simon X. Yang  
Wei Xing Zheng
- **Special Sessions Chairs**  
Long Cheng  
Shukai Duan  
Zhigang Liu  
Biao Luo  
Yongping Pan  
Manuel Roveri  
Dianhui Wang
- **Publications Chair**  
Chaoxu Mu  
Emanuele Principi  
Qinglai Wei  
Qinmin Yang  
Zhihui Zhan
- **Poster Session Chairs**  
El-Sayed M. El-Alfy  
Wei He  
Lidan Wang  
Yong Xu
- **Publicity Chairs**  
Amir Hussain  
Jing Liang  
Jing Na  
Zhuo Wang  
Kan Xie
- **Award Chairs**  
Erik Cambria  
Zhiyun Lin  
Ding Wang  
Dongsheng Yang
- **Registration Chair**  
Bo Zhao
- **Local Arrangements Chair**  
Liangming Chen
- **Secretariat**  
Yunjie Xiang  
Shan Xue

## Topics of contributed papers include but are not limited to:

### 1. Complex Systems and Complexity Science

Artificial systems  
Autonomous systems  
Bio-molecular systems  
Brain dynamics  
Cellular systems  
Complex networks  
Ecological systems  
Economic systems  
Energy systems  
Hybrid systems  
Industrial systems  
ITS  
Mathematical systems  
Neurodynamics  
Psychological systems  
Social computing  
Social systems  
Switching systems

### 2. System Analysis and Integration

Catastrophe theory  
Chaos and synchronization  
Cognitive modeling  
Complexity in biology  
Computational experiments  
Computational simulation  
Cybernetics

Data-based methods  
Emergence and complexity  
Evolution and prediction  
Game theory  
Information theory  
Self-organization  
Synergetics  
Structural modelling

### 3. Intelligent Science and Technology

Adaptive dynamic programming  
Affective computing  
Artificial intelligence  
Big data and data mining  
Brain-inspired computing  
Computational intelligence  
Computational linguistics  
Deep learning  
Evolutionary computation  
Fuzzy logic systems  
Genetic algorithms  
Human-in-the-loop learning  
Hybrid intelligence  
Incremental/Active learning  
Knowledge representation  
Machine learning  
Metaheuristics  
Natural language processing  
Neural networks

Reinforcement learning  
Support vector machines  
Swarm intelligence

### 4. Intelligent Systems and Applications

Autonomous control  
Autonomous driving  
Brain-machine interface  
Cognitive computing  
Computer vision  
Image/Video processing  
Intelligent control  
Intelligent medicine  
Internet of things  
Learning control  
Meta learning  
Metacontrol  
Multi-agent systems  
Nature-inspired computing  
Navigation and control  
Neuromorphic computing  
Pattern recognition  
Parallel control  
Robotics  
Smart sensors  
Smart grids  
Supervised learning  
Unmanned aerial vehicles  
Unsupervised learning

## Paper Submission:

Authors are invited to submit full-length papers (6 to 8 pages) by the submission deadline. Special session organizers are invited to enlist six or more papers with cohesive topics to form special sessions. When submitting papers, please follow the online paper submission guidelines posted at:  
<http://www.conference123.org/csisiac2023/submission.html>

## Important Dates

- Deadline for paper submission: **August 15, 2023**
- Deadline for final paper submission: **October 1, 2023**
- Acceptance notification: **September 15, 2023**
- Deadline for author registration: **October 1, 2023**

Organizer



Sponsors



Email: [csisiac@gmail.com](mailto:csisiac@gmail.com)