ICCCAS
Communications, Circuits, and Systems

ICCCAS 2027
CALL FOR PAPERS

Chengdu, China
May 21–24, 2027

SPECIAL SESSION 13

Artificial Intelligence and *Intelligent Optimization* for Smart Systems

Smart systems must interpret complex data and make effective decisions under limited resources, multiple constraints, and changing conditions. Artificial intelligence provides methods for perception and prediction, while intelligent optimization supports planning, scheduling, and control. Bringing these approaches together can improve how systems use information and respond to practical demands.

This special session invites original research on artificial intelligence and intelligent optimization, including their integration in smart systems. The scope covers deep learning and computer vision, image classification, object detection and segmentation, multimodal learning, evolutionary computation, swarm intelligence, metaheuristics, reinforcement learning, and learning-assisted optimization. Relevant applications include medical image analysis, intelligent transportation and logistics, robotics, autonomous systems, smart agriculture, and resource management.

We welcome methodological contributions, comparative studies, and application-oriented research. Of particular interest are approaches that address data scarcity, computational efficiency, robustness, and decision-making under uncertainty. The session aims to bring together researchers working on intelligent perception and optimization, encourage discussion of reproducible evaluation, and support the development of methods that connect algorithmic advances with practical system requirements.


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01 IMPORTANT DATES

Submission Deadline	**Jan. 1, 2027**
Notification	**Feb. 1, 2027**
Registration Due	**Feb. 25, 2027**

02 SUBMISSION

https://easychair.org/conferences/?conf=icccas2027

Full paper (4–10 pages, 5–6 recommended) or abstract (≤300 words). Official language: English. Accepted & presented papers will be published in the proceedings.

Choose "Special Session 13" after login

03 TOPICS OF INTEREST

1. **Deep learning and computer vision** for intelligent perception
2. **Image classification, object detection** segmentation, and medical image analysis
3. **Multimodal learning, intelligent sensing** and data-efficient learning
4. **Evolutionary computation** swarm intelligence, and hybrid metaheuristics
5. **Reinforcement learning** and learning-assisted intelligent optimization
6. **Smart transportation, logistics, robotics** autonomous systems, and edge AI

04 PUBLICATION

Accepted and presented papers will be published in the **ICCCAS Conference Proceedings**. Conference content will be submitted into **IEEE Xplore** and indexed by **Ei Compendex** and **Scopus**, etc.

ICCCAS 2027 has been included in IEEE list! (Read More)

Year	Proceedings	Location	ISBN
2026	IEEE	Takasaki, Japan	979-8-3195-0849-2
2025	IEEE	Wuhan, China	979-8-3315-4477-5
2024	IEEE	Xiamen, China	979-8-3503-8627-1
2023	Springer	Singapore	978-981-97-2635-6
2022	IEEE	Online	978-1-6654-6989-0
2018	IEEE	Chengdu, China	978-1-5386-9387-2
2013	IEEE	Chengdu, China	978-1-4799-3051-7
2010	IEEE	Chengdu, China	978-1-4244-8224
2009	IEEE	Milpitas, CA, USA	978-1-4244-4886-9
2008	IEEE	Xiamen, China	978-1-4244-2036-3
2007	IEEE	Kokura, Japan	978-1-4244-1473-4
2006	IEEE	Guilin, China	0-7803-9584-0
2005	IEEE	Hong Kong, China	0-7803-9015-9
2004	IEEE	Chengdu, China	0-7803-8647-7
2002	IEEE	Chengdu, China	0-7803-7455-X

For details, please visit www.icccas.org · Publication history: www.icccas.org/history.html

05 CONFERENCE AWARDS

- **Outstanding Young Scholar Award** — apply by Apr 20, 2027; authors ≤40 (by Apr 30) with PhD.
- **Best Student Paper Award** — students only; registered first author; oral.
- **Excellent Oral Presentation Award** — all oral presenters.
- **Best Reviewer Award** — all committee members.
- **Best Paper Award** — all accepted papers; registered first author; oral.
- **Excellent Poster Presentation Award** — all poster presenters.

06 CONTACT US

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SCIE / EI / SCOPUS JOURNAL PUBLICATION — selected registered papers with proper extension will be recommended for potential publication


Chinese Journal of Electronics
ISSN: 1022-4653
Indexing: SCIE (Web of Science), Scopus, Ei Compendex, Chemical Abstracts (CA), Inspec, etc.


电子学报 (Acta Electronica Sinica)
ISSN: 0372-2112
中文核心期刊, CCF推荐中文科技期刊A类
Indexing: Scopus, Ei Compendex, Inspec.


Journal of Communications and Information Networks
ISSN: 2096-1081
CiteScore(2022): 4.0
Indexing: CSCD, Ei Compendex, Scopus.


Journal of Marine Science and Application
ISSN: 1671-9433
Indexing: Scopus, Google Scholar, SCImago, CSA, CSCD, CJCR.


IET Communications
ISSN: 1751-8636
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