Call for Papers
The 8th IEEE International Conference on Agents (ICA'24)

December 4 – 6, 2024
Wollongong, Australia

Important Dates

- **Submission Deadline**: ~~September 1st, 2024~~ **September 15th, 2024**
- **Author Notification**: ~~October 1st, 2024~~ **October 1st ~ 7th, 2024**
- **Camera-ready Deadline**: October 14th, 2024
- **IEEE ICA 2024**: December 4th-6th, 2024 (**IEEE ICA'24 will be run in a hybrid way. The remote participation is allowed**)
- **Paper Submission:** https://easychair.org/conferences/?conf=ica20240
- **Conference Website**: https://attend.ieee.org/ica-2024/

Scope and Background

Intelligent agents in AI are software entities designed to act on behalf of humans with varying degrees of autonomy. These agents interact with their environment by sensing its status and employing their knowledge to carry out operations that help them achieve their goals. They possess distinctive properties such as adaptability, reactivity, proactivity, and sociability. Intelligent agents can collaborate or compete with each other, aiming to achieve personal or shared objectives. The applications of these agents vary widely in scale, ranging from personal assistants and conversational systems to large-scale, intricate, and mission-critical systems such as autonomous vehicles or search and rescue drones. Research on intelligent agents focuses on inventing innovative agent models, frameworks, and techniques to enhance their capabilities. The IEEE International Conference on Agents serves as a gathering point for scholars and professionals in all areas of agent research. IEEE ICA provides a platform to explore new theories, practices, and applications of intelligent and autonomous agents. Past IEEE ICA conferences have been held in Kyoto (2021, 2023), Adelaide (2022), Jinan (2019), Singapore (2018), Beijing (2017), and Matsue (2016). The 8th IEEE International Conference on Agents will take place in Wollongong, Australia.

Areas of Interest

The 8th IEEE International Conference on Agents (ICA'24) calls for innovative contributions related to, but not limited to, the topics listed below.

- Agent theories and models
- Agent ontologies, reasoning, and decision-making
- Agent and multi-agent learning, Q-learning, reinforcement learning
- Agent-based modelling and simulation, tools, and platforms
- Norms, normative systems
- Trust and reputation
- Agent-based negotiation, coordination, cooperation, and argumentation
- Game theory, social choice theory, auctions, and mechanism design
- Collective intelligence, social computing, and wisdom of the crowds
- Agent team formation, self-organization and self-adaptation
- Internet of Things, cloud computing, and robotics
- Human-agent interaction, socially interactive agents
- AI education within the scope of MAS
- Agent-based programming, BDI agents, tools, and testbeds
- Innovative applications in finance, health, agriculture, transportation
- Smart grid, smart city
- Apply computing and distributed systems
- Ethical, legal, and moral aspects of agent technologies
- Future visions and grand challenges of agents and multiagent systems

Submission Guidelines

The conference welcomes submissions of significant, original, and unpublished work in all areas of agent research. Submissions must be in English, adhering to the IEEE Conference Proceedings format. Submissions should be made via EasyChair. To ensure a double-blind peer-review process, all information linking to the authors must be removed from the submissions. Papers should not exceed six pages for regular papers (including references), four pages for short papers, and two pages for poster papers. Each submission will undergo review by at least three reviewers from our Program Committee. Acceptance standards will consider technical soundness, novelty, impact, and readability. All accepted papers will be presented either orally or as a poster. At least one author of the accept paper needs to register to the conference. Accepted papers presented orally or as posters will be published in the conference proceedings by CPS (Conference Publishing Services). These papers will be indexed by EI, SCOPUS, INSPEC, DBLP, and ISI.

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