

Call for Paper

The 4th International Conference on Agents (ICA 2019)

Conference Venue: Jinan City, Shandong Province, China

Conference Date: 18-21 October, 2019

Conference Website: <http://ica2019.crowdsience.org/>

Submission link: <https://easychair.org/conferences/?conf=ica2019>

Scope and Background:

Intelligent agents are software entities which can carry out some actions on behalf of clients with some degree of autonomy. Through sensing the status of environment, agents perform operations based on possessed knowledge in order to change or influence the environment towards their goals. A Multi-Agent System (MAS) is a group or society of agents, and agents interact with others in the group cooperatively and/or competitively in order to reach their individual or common goals. In general, agents possess five common properties which are autonomy (some level of self-control), adaptivity (the ability to learn and improve performance with experience), reactivity (the ability to perceive the environment and to respond in a timely fashion to changes that occur), proactivity (the ability not only to act simply in response to their environment but also to exhibit goal-directed behaviour by taking the initiative) and sociability (the ability to interact, communicate and work with other agents). Research on agent techniques and MASs mainly focus on improving existing or invent innovative frameworks, models, mechanisms, approaches and algorithms to improve agents' effectiveness and efficiency in those five aspects for advanced autonomous problem solving abilities in complex environments.

Topics:

We envision a future society where computational agents and humans (physical agents) are living, working and snuggling with each other. Harmonious collaboration among computational agents and humans are of importance in the next-generation society. ICA'19 will call for papers related, but not limited to the following topics:

- Decision making techniques
- Multi-agent communication and interaction protocols
- Negotiation and argumentation
- Game theory and auctions
- Social computing
- Cooperation, collaboration and coordination mechanisms
- Self-organization and self-adaptation
- Computational reasoning
- Machine learning
- Complex systems and system dynamics
- Collective intelligence
- Programming languages
- Internet of things, agents, and people
- Systems designs, development and implementation
- Human and multi-agent systems interaction
- Social science, humanities, ethical, legal, and social issues
- Future visions and grand challenges

Publication and Submission:

All accepted papers in the regular oral presentation / poster will be published in conference proceedings by CPS. They will be indexed by EI, SCOPUS, INSPEC, DBLP and ISI. Selected ICA'19 papers will be invited for expansion and publication in international Journals.

All submissions need to be formatted according to the IEEE Conference Proceedings format (https://www.ieee.org/conferences_events/conferences/publishing/templates.html).

The format of the final manuscript should be no more than 6 pages in length (inclusive of references) for regular papers, 4 pages for short papers, and 2 pages for poster papers. Submission is entirely automated by a paper management tool, which is available online, URL: <https://easychair.org/conferences/?conf=ica2019>. Authors must first register their own account, and then follow the instructions.

All accepted papers will be provided an oral presentation and/or a poster. Each paper will be reviewed by at least three PC members or experts in the field. Multiple submission policy is applied for papers. Papers that are being submitted to other conferences, whether verbatim or in essence must reflect this fact on the title page. Papers that do not meet this requirement are subject to rejection without review.

Important Dates:

- Paper submission deadline: ~~21 Jun, 2019~~ **28 July 2019**
- Paper acceptance notification: ~~26 Jul, 2019~~ **18 August 2019**
- Early-bird registration deadline: ~~30 Aug, 2019~~ **22 September 2019**
- Camera-ready submission deadline: ~~30 Aug, 2019~~ **22 September 2019**
- ICA'19 conference: **18-21 Oct, 2019**

No-show policy:

The paper not presented at the conference (no-show) will not be published in the conference proceedings.

Organization:

Steering Committee:

Chengqi Zhang, University of Technology, Sydney, Australia
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