

Internet of Agents (IoA)

The First International Workshop
Omaha, Nebraska United States

October 13, 2016



IoA Workshop

On the confluence between **Multi-Agent Systems (MAS)** and the **Internet of Things (IoT)**, there is a strong ongoing trend for the IoT to seize the intelligent nature/architecture of the MAS. In the **Internet of Agents (IoA)** workshop, we aim to understand the current range of nascent network centric agents. At one end of the spectrum, this includes agents' efforts to form collaborative units. On the other end of the spectrum, we seek to understand techniques and methodologies for constructing online agents that represent interests of their actual counterparts and take actions autonomously. This workshop will reflect the impacts of the dynamic network proliferation and start of smart agent systems that exploit and explore opportunities heralded by the fast social-pace of interconnectivity. Smart agents are aware of the social climate of their environment while performing their design tasks or multitasks. They account for interactions with other agents so as to perform social acts in order to complement their physical and speech acts. This workshop emphasizes on the operational elements of the dynamic network that facilitate intelligence on the Internet. Social and cognitive foundations surrounding IoA that include nature of interactions among agents engaged in a meaningful exchange are of special interest.

Objectives

The workshop seeks to attract papers:

- Discussing general challenges of IoA and potential solutions,
- Presenting a novel architecture of IoA,
- Describing experiments or prototype design for IoA, or
- Presenting successful applications combining IoT and MAS.

This can be through theoretical analyses or simulation methods.

Topics of Interest

Papers may address one or more of the listed topics, although authors should not feel limited by them. All topics and submission formats are open to both research and industry contributions.

- Agents-based interactive environments
- Architectures of cognitively reasoned interactions
- Cooperation and collaboration mechanisms
- Collective benefits of political fallouts and economic externalities
- Computational models of distributed technologies
- IoT/M2M applications and services employing MAS
- Globalized networks and grid alliances
- Network-centric warfare, individualism or organizations
- Smart societies and cities deploying protocols of an IoA

Important Dates

Submission deadline,

June 1, 2016

Notification of acceptance,

June 25, 2016

Workshop day,

October 13, 2016

Submission Instructions

- The workshop will feature invited talks by leading researchers and an exciting collection of oral presentations as well as an interactive poster session.
- Submissions accepted in IoA will be allocated 4 pages in the IEEE WI-IAT 2016 workshop proceedings to be published by IEEE Computer Society Press and indexed by EI, etc.
- All submissions will be peer reviewed and evaluated by 2-5 program members as well as auxiliary reviewers on the basis of soundness, significance, presentation, understanding of the state of the art, and overall quality of their technical contribution.
- We advise authors to refer to all the information and data that might be helpful to best evaluate their submissions (e.g., `\footnote{URL}` or `\cite{}` data used in your experiment).
- The IEEE-CS formatting guidelines for conference proceedings can be found at: http://www.ieee.org/conferences_events/conferences/publishing/templates.html.
- Although we accept submissions in the form of PDF or DOC files, we encourage you to generate a PDF version of your paper before submitting it.
- Articles including files containing software demos, videos, etc. are encouraged to notify us before the submission. In this case, your LaTeX file along with all the files required to execute your paper in a different device must be compressed (.zip) and ready to be submitted along with your paper by the time the camera-ready version is due.
- By the time your paper is ready for submission, visit our submission website and follow the instructions. Please feel free to contact us for any question.

Contact

The workshop webpage,

<http://www2.cs.siu.edu/~salqithami/ioa>

For more information and further questions,

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Share your thought with us at,

[#IoAgents](https://twitter.com/loagents)