

Call for Contributions for

Submission:

1. **Inform the Chair:** with the Title of your Contribution

2. **Submission URL:**

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=SEMAPRO+2019+Special>

Please select Track Preference as **SemaTeam**

Special track

SemaTeam: Semantics for the Computational Understanding of Human Teamwork

Chair and Coordinator

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along with

SEMAPRO 2019, The Thirteenth International Conference on Advances in Semantic Processing

<http://www.aria.org/conferences2019/SEMAPRO19.html>

September 22, 2019 to September 26, 2019 - Porto, Portugal

Computational theories of teamwork describe how individual and independent agents can create a collective behavior as if the group were acting as one. Computational teamwork is created through the use of data structures, elements, and processes such as: team plans, team goals, team roles, role capability requirements, and protocols for the formulation of such structures. All processes related to teamwork are distributed across different individual agents, and involve verbal and non-verbal communications in a situated environment. No two agents share the same memory, so any collaborative or collective mental state must be achieved via some form of communicative signaling.

This special track invites submissions on the computational semantics of teamwork.

Topics include, but not limited to:

- Ontologies for the representation of teamwork structures, elements, and processes
- Logics and reasoning mechanisms by which teamwork structures, elements and processes can be interpreted, combined and refactored
- Computational representation and reasoning of the mental state of others: other teammates, other teams, potential teammates, adversaries, etc.
- Computational acquisition strategies by which verbal and nonverbal signals can be matched to teamwork ontologies
- Computational theories of semantics and pragmatics as they relate to team process
- Computational mechanisms to enable agents to achieve common semantics and common understanding in dynamic and variable group compositions
- Ontologies for social structures and authority relations that are found in teamwork
- Multi-modal team-oriented dialogue understanding systems
- Multi-party team-oriented dialogue understanding systems
- Multi-party dialogue plan acquisition systems
- Semantic acquisition from dialogue of: referential expressions, spatial relations, speech acts, role definition, commitment, decommitment, status, progress, etc.

- Metrics for the evaluation of computational performance of human teamwork understanding systems

Important Datelines

Inform the Chair: As soon as you decide to contribute

Submission: July 26, 2019

Notification: August 16, 2019

Registration: August 26, 2019

Camera-ready: August 26, 2019

Note: These deadlines are somewhat flexible, providing arrangements are made ahead of time with the chair.

Contribution Types

- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on www.aria.org]
- Presentations: slide only [slide-deck posted on www.aria.org]
- Demos: two pages [posted on www.aria.org]

Paper Format

- See: <http://www.aria.org/format.html> [both LaTeX and .doc templates]
- Before submission, please check and comply with the editorial rules: <http://www.aria.org/editorialrules.html>
- More information on camera ready preparations will be posted after the paper notifications are sent out.

Publications

- Extended versions of selected papers will be published in IARIA Journals: <http://www.ariajournals.org>
- Print proceedings will be available via Curran Associates, Inc.: <http://www.proceedings.com/9769.html>
- Articles will be archived in the free access ThinkMind Digital Library: <http://www.thinkmind.org>

Paper Submission

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Registration

- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.
- Registration fees are available at <http://www.aria.org/registration.html>

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