

Call for Papers

MABS 2015 - The Sixteenth International Workshop on Multi-Agent-Based Simulation

Website: <http://www.irit.fr/mabs2015/>

May 4-5, 2015 - Istanbul, Turkey

Aim and scope

The meeting of researchers from MAS engineering and the social/economic/organizational sciences is extensively recognized for its role in cross-fertilization, and it has undoubtedly been an important source of inspiration for the body of knowledge that has been produced in the MAS area. The MABS workshop series continues with its goal to bring together researchers interested in MAS engineering, with researchers focused on finding efficient solutions to model complex social systems, in such areas as economics, management, organizational and social sciences in general. In all these areas, agent theories, metaphors, models, analysis, experimental designs, empirical studies, and methodological principles, all converge into simulation as a way of achieving explanations and predictions, exploration and testing of hypotheses, better designs and systems.

The range of technical issues that MABS has dealt with and continues to deal with is diverse and extensive and includes:

Simulation methodologies:

- Standards for MABS
- Methodologies and simulation languages for MABS
- Simulation platforms and tools for MABS
- Visualization and analytic tools
- Approaches for large-scale simulations
- Scalability and robustness in MABS
- Data-driven simulations
- MABS that link real-world data in real time.
- Handling Big Data in MABS including sense-making
- Simulation modelling of multidirectional (bottom-up and top-down) dynamics in complex social systems
- Provenance and ontology-driven approaches in building simulations
- Design and analysis of simulation experiments including uncertainty analysis
- Synthetic population generation

Simulation of social and economic behavior:

- Formal and agent models of social behavior
- Cognitive modeling and social simulation
- Game theory and simulation
- Social structure: social networks and simulating organizations
- Simulating social complexity (e.g. structures and norms, social order, emergence of cooperation and coordinated action, self-organization, the micro-macro link)
- Use of qualitative Evidence to inform behavioral rules

Applications:

- MABS in environmental modeling
- Agent-based experimental economics
- Participative-based simulation
- MABS and games

These topics are important for both the MAS community doing simulation, and for economic/social/organizational scientists doing simulation. The workshop is therefore relevant to the main conference, as simulation is one of the topics of the latter. On the other hand, as the workshop is already established as an important event during the conference it will bring more attendees from the social and economic domains to the main conference.

MABS Workshop Series

The workshop is a continuation of the International Workshop series on Multi-Agent-Based Simulation (MABS).

Important dates

February 11, 2015	Deadline for contributions to workshop.
March 10, 2015	Acceptance or rejection notification is sent to authors.
March 19, 2015	Deadline for authors sending their revised contribution, according to reviewers' remarks.
May 4-5, 2015	MABS'15 workshop takes place.
August-December, 2015	Preparation of Post-Proceedings, with further reviewing, to be published by Springer LNAI, in the series Multi-Agent-Based Simulation, with the title "Multi-Agent-Based Simulation XVI, 16th International Workshop, Istanbul, Turkey, May 2015, Revised Papers".

Publication

All accepted papers will be printed in the AAMAS workshop proceedings. In addition, following the tradition of the previous MABS workshops, we intend to publish the accepted papers, after a further reviewing process, in Springer-Verlag's Multi-Agent-Based Simulation book series, LNAI.

Submission

All submitted papers must be formatted according to Springer's LNAI layout (<http://www.springer.de/comp/lncs/authors.html>) and in PDF format. The maximum number of pages is 12. Papers should be submitted via EasyChair (<https://www.easychair.org/conferences/?conf=mabs2015>).

Acceptance standards

All submissions will go through a peer review process, with two or three independent PC members reviewing each submission. Only those deemed to be 1) relevant to the workshop's aims, 2) presenting original work, and 3) of good quality and clarity will be accepted. Following the workshop, participants will be required to revise their papers, which will undergo a second review process before publication in the post-proceedings.

Workshop organizers

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Program committee

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