

LAMAS 2014

7th Workshop on Logical Aspects of Multi-Agent Systems

May 5, 2014
Paris, France

Co-located with
AAMAS 2014

Organization and PC Chairs

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The **7th Workshop on Logical Aspects of Multi-Agent Systems (LAMAS)** is a satellite workshop of AAMAS 2014, which will take place May 5, 2014 in Paris, France.

There is a growing interdisciplinary community of researchers and research groups working on logical aspects of multi-agent systems (MAS) from the perspectives of logic, artificial intelligence, computer science, game theory, etc. The LAMAS workshop serves the community as a platform for presentation, exchange, and publication of ideas.

The main technical issues that the workshop will address are:

- Logical systems for specification, analysis, and reasoning about MAS
- Modeling MAS with logic-based models
- Logic in game theory
- Logic in social choice theory
- Deductive systems and decision procedures for logics for MAS
- Development, complexity analysis, and implementation of algorithmic methods for formal verification of MAS
- Logic-based tools for MAS
- Applications of logics in MAS

The workshop program includes an **invited talk**, an **invited tutorial**, **5 long** and **5 short presentations** as well as a **panel discussion**.

Workshop Programm

9:00 - 10:30 Opening — Session I

9:00 - 9:05 Opening

9:05 - 10:05 **Invited Tutorial by Prof. Thomas Ågotnes (University of Bergen, NO). The Social Laws Paradigm for Coordinating Multi-Agent Systems**

10:05-10:35 *Daniele Porello and Nicolas Troquard.* Non-normal Modal Linear Logic with an Application to Resource-sensitive Agency

10:35 - 11:00 Coffee Break — Session II

11:00 - 11:30 *Emiliano Lorini and Roberto Ciuni.* Comparing Semantics for Temporal STIT Logic

11:30 - 12:00 *Jan Broersen.* Moral Responsibility, Alternative Possibility and Attempt

12:00 - 12:15 *Qingliang Chen and Kaile Su.* Higher-Order Epistemic Coalition Logic for Multi-Agent Systems

12:15 - 12:30 *Daniel Eckert and Frederik Herzberg.* A Simple Possibility Result in a Boolean-Valued Model for Judgment Aggregation

12:30 - 14:00 Lunch — Session III

14:00 - 15:00 **Invited Talk by Prof. John-Jules Meyer (Utrecht University, NL). The Logic of Emotion**

15:00 - 15:30 *Andreas Herzig, Emiliano Lorini, Faustine Maffre and Dirk Walther.* Alternating-time Temporal Logic with Explicit Programs

15:30 - 16:00 Coffee Break — Session IV

16:00 - 16:30 *Fabio Mogavero, Aniello Murano and Luigi Sauro.* On the Conjunctive and Disjunctive Fragments of Strategy Logic

16:30 - 16:45 *Bozena Wozna-Szczesniak.* Checking EMTLK Properties of Timed Interpreted Systems via Bounded Model Checking

16:45 - 17:00 *Stefania Costantini and Giovanni De Gasperis.* Runtime Self-Checking via Temporal (Meta-)Axioms for Assurance of Logical Agent Systems

17:00 - 17:15 *Natasha Alechina, Fenrong Liu and Brian Logan.* Postulates and a Linear-time Algorithm for Minimal Preference Contraction

17:15 - 18:00 **Panel Discussion** and Closing