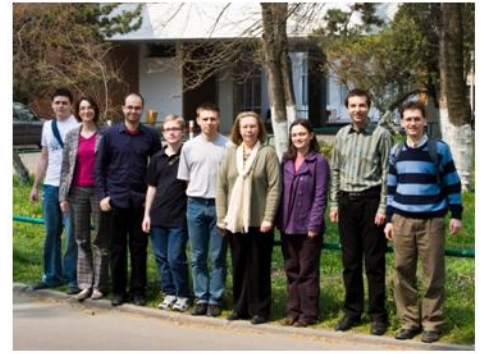


# Artificial Intelligence and Multi-Agent Systems Laboratory



The Laboratory of Artificial Intelligence and Multi-Agent Systems has two research focuses. First, it is concerned with the development of models and architectures for both multi-agent and single agent systems endowed with artificial intelligent behaviour. We investigate issues related to coordination mechanisms, automated negotiation, agent learning, and affective agents. A key aspect of the research is the development of technologies that enable agent models to be used in different areas of applications, such as e-commerce, e-learning, supply chain management, and ambient intelligence. Recently, we have started to investigate issues related to self-organization of complex systems and how agents can contribute to the development of such systems.

The second research focus of AI-MAS laboratory is the connection between web services, semantic representation, and agents on the Web. We direct our efforts towards developing agents that offer semantic web services to support different aspects of business processing and enterprise interoperability.

Director: Prof. Adina Magda Florea

**MASTS 2009**  
The International Workshop on  
Multi-Agent Systems  
Technology and Semantics



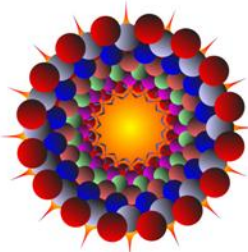
**South Eastern European  
Summer School on  
Multi-Agent Systems**  
July 2010  
Sponsored by IFAAMAS

## New projects

**AGATE:** Self-organizing self-aware cognitive agent societies for modelling and simulation of complex systems (2009-2011). The project deals with the self-organization of self-aware societies of software agents that are able to modify their behaviour in response to the interactions with other agents and with a dynamic environment. The main aim of AGATE is to understand how desired agents' behaviour is learned, influenced or changed by the environment and how, in turn, this behaviour affects other agents in complex software systems. Financed by CNCSIS.

**SCIPA:** Collaboration and Interoperability Semantic Software Services for Adaptive Business Processes (2009-2011). The project has as main objective the study, design and implementation of an integrated open and generic ICT solution, which allows the interoperability of semantic software services offered by enterprises, the adaptability of the business processes, the discovery and composition of new services, and the development of a flexible collaboration model, capable of answering the collaboration requirements in a dynamically business environment.

Part of the COST Action IC0801: Agreement Technologies (2008-2012). Agreement Technologies refer to computer systems in which autonomous software agents negotiate with one another, typically on behalf of humans, in order to come to mutually acceptable agreements.



## Cooperation & networking

- Erasmus Mundus Master Course in Data Mining and Knowledge Management
- Socrates Erasmus Programme
- COST Action IC0801: Agreement Technologies
- EU AgentLink III, II
- PhDs in double coordination
- Partnerships: Univ. Paris 6 (LIP 6), Polytech'Nantes, Univ. Paris XIII (LIPN)

**Master of Science in  
Artificial Intelligence**

## Contact

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