Multi-Agent Programming

Course level: Master ([M2])  Track(s): [CPS2]

ECTS Credits: 5 (CPS2)

Course instructors: Olivier Boissier (Mines Saint-Etienne), Flavien Balbo (Mines Saint-Etienne), Gauthier Picard (Mines Saint-Etienne)

Education period: 1st semester  Language of instruction: English

Expected prior-knowledge: Introduction to Artificial Intelligence

Aim and learning outcomes: introduction to the domain of multi-agent system with a clear and strong focus on programming. The objective is to be able to analyze, design and program collective autonomous systems by using multi-agent models and technologies.

Keywords: multi-agent system, agent-oriented programming, agents organisation, agents environment, programming language,

Syllabus:

- Introduction to multi-agent systems
- Concepts and models of multi-agent oriented programming
- Multi-Agent Software Engineering
- Programming Languages and Platforms
- Laboratory sessions programming

Organisation and timetable: Lectures (12h), tutorials (10h) and Lab sessions (12h)

Form(s) of Assessment: written exam (2h, coefficient 2), practical work/project (coefficient 2) - Resit: written exam (2h)

Literature and study materials:

Reference books:

Additional information/Contacts:

Olivier Boissier
Mines Saint-Etienne
E-mail: Olivier.Boissier@emse.fr
Master in Computer Science

Web page: http://www.emse.fr/~boissier/