MultiAgent Systems (MAS)
(PósAutomação)

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`https://jomifred.github.io/mas/`

1 Objectives

- Learn the main core concepts of MultiAgent Systems

- Experiment and develop pratical systems with MAS

- Be familiar with MAS literature

2 Content

Introduction to MAS. Foundations of MAS. MAS dimensions: agents, interaction, environment and organisation. Coordination. Cooperation. Negotiation. Agent Architectures. MAS development tools and languages. JaCaMo Platform.

3 Assignment

- Practical Experiments (25%)

- Project (50%)

- Seminars (25%)

4 Bibliography

- M Wooldridge. *An Introduction to Multiagent Systems.* 2nd Ed. John Wiley, 2009.

- G Weiss, editor. *Multiagent Systems: a modern approach.* 2nd Ed. The MIT Press, 2013.

- Jacques Ferber. *Multi-Agent Systems: An Introduction to Distributed Artificial Intelligence.* Addison-Wesley, 1999.

- Y. Shoham and K. Leyton-Brown. *Multiagent Systems: Algorithmic, Game-theoretic, and Logical Foundations.* Cambridge University Press, 2009.

- Rafael Bordini et al. *Multi-Agent Programming: Languages, Platforms, and Applications.* Springer, 2005.