Summer School in Social Simulation: A hands-on approach

Social simulation is a multidisciplinary research field that uses multi-agent computational models to approach the study and understanding of complex social phenomena such as the functioning of markets, the emergence of social norms, the ethnogenesis, or the dissemination of information in societies among others .

The *Summer School in Social Simulation: A hands-on approach* program, organized by the *Laboratory for Socio-Historical Dynamics Simulation* (LSDS - UAB) offers an intensive hands-on course on multi-agent modeling applied to the social sciences using the Netlogo modeling environment. Participants will be able to debout immediately in the field and to present their own simulation model at the end of the course.

The program will be conducted by researchers in artificial intelligence, sociology, economics, archeology and other fields in the social sciences who, parallel to the course, will present the state-of-the-art research on the implementation of social simulation in their fields of expertise.

The course is mainly directed to advanced students and researchers in the various fields of the social sciences who wish to approximate or to deepen in the knowledge of agent-based simulation to analyze complex phenomena in the context of social dynamics

Dates

From July 9, 2012 to July 13, 2012 (20 hours)

Tuition Fee

350€

Program summary

Following an <u>Opening lecture</u> to introduce the subject in a broad sense, the program will be organized around two core activities:

- ⚐ NetLogo Programming Tutorial: Introduction to the modeling of social dynamics using the freely distributed Netlogo modeling environment. (15 hours)
- ⚐ Field presentations by researchers on different areas of the social siences. (5 hours)

Participants will develop a personal project under the supervision of the researchers in charge of the course. The summer school will end with in-class presentations of the participants' projects.

Certification

Certificate of attendance issued by the Laboratory for Sociohistorical Dynamics Simulation

(LSDS-UAB)

Program detailed

Day 1

- Participants reception
- Program presentaiton
- Opening lecture: Simulation in the Social Sciences
- Module 1: Modeling - Computer Simulations – MABS
- Participants presentation and expresion of interests
- Module 2: Programming Basics

Day 2

- Lecture 2: Agent-Based Computational Economics
- Module 3: Netlogo Basics
- Module 4: Netlogo Advanced

Day 3

- Lecture 3: Agent-Based Methodological Issues
- Module 5: Netlogo tools
- Individual project starting

Day 4

- Lecture 4: Agent-Based Computational Arqueology
- Individual project work and supervision

Day 5

- Project presentations
- School closing

Contact

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