CIM (week 21-25 October 2019) by Yérali Gandica

In the following is the schedule for the CIM activity called: **Agent-based models: Theory and applications**. The idea is i) to show the students the main models used to simulate social phenomena, ii) To teach them how to program such models, and iii) the students should create new algorithms based on the general subject. We will address, as topic, **Social adaptability during times of immigration**. Then, we will try to find out whether we are able to detect recipes for better adaptability of the new members of society.
Prerequisite: Python, Matplotlib and networkX

Schedule

Monday 21/10/2019
9h00-9h40:

Students will read the article alone (40 min)
i) Write the parts that they didn't understand.
ii) Write the main conclusion of the article
iii) Write their own opinion about the overall article.

9h45-10h50

iv)Then in groups of 3 students, they will discuss points i,ii,iii.

11h00-11h40

v) They will read again the article alone and take her/his own conclusion.

13h00-15h30. Discussion about the reading and class with slides, and then we start the tutorial: Agent-based models: Theory and applications

Tuesday 22/10/2019

9h00-10h30: Discussion about the class on ABM. Hands on session I
11h00-12h30: Hands on session II

14h00-16h30: Discussion about projects with some computational tests. The projects can be developed in groups of maximum 5 students.

Thursday 23/10/2019

10h00-12h: consultation hours

Friday 24/10/2019
9h-12h presentations