



International Lecture*

03 December – 07 December 2018

Morning Session (08:00 – 13:30) Monday to Friday:

Operational Research & Applications

Operational research is an omnipresent discipline in engineering science, in this seminar I present the different varieties and derivatives of this great branch of mathematics, so I give an introduction on linear programming, duality, the graphical resolution of a problem then using the method of the simplex, that on the one hand on the other hand I begin the explanation of the stages of the genetic algorithm, the selection, the crossing and the mutation and I give at the end some applications.

Hanaa Hachimi, Ibn Tofail University, Morocco

Starting Monday, December 3rd, 10:00, Room 152

Afternoon Session (14:00 – 19:00) Monday to Friday:

Human-Computer Interaction

After an introduction of Human-Computer Interaction fundamentals, this lecture will explore new kinds of interactive systems : vocal interaction, tangible and advanced interactive systems, ...

This course will propose practical work including a participative design session, and prototyping (including different devices such as leap motion, eye trackers, ... arduinos & raspberry pi compatible devices - provided during the session) aiming to build in a easy way and limited time complex systems using environment "new technologies".

The main prototyping language used in this lecture will be processing.org [i.e. actually java in an easy way;)). Some preliminary exercises will be provided before the course.

Philippe Truillet, Paul Sabatier University, France

Starting Monday, December 3rd, 14:00, Room 152

* Internationale Vorlesungen - können als **Wahlpflichtvorlesungen mit 2,5 Credits** anerkannt werden. Eine Anmeldung ist nicht erforderlich – gehen Sie einfach hin.