

# Discussion on the expected work when studying the different papers

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- There are several papers of research on your platform (in the file Research-Papers)
- The objective is to globally understand a paper in order to present it
  - ▷ The duration of the presentation will be 15 minutes.
  - ▷ The presentation will be done at the end of the week (Monday, February 27)
- The studies I propose can be structured in several steps as follows

## Step 1 - Organization of the groups

- Constitute four groups of 3-4 students to work together
  - ▷ Group 1 to Group 4
- Four papers are available in your platform (in the file Research-Papers)
  - ▷ Paper 1 to Paper 4
- Group  $i$  works on Paper  $i$

## Step 2 - Main objectives for each group

- You have to study the paper:
  - ▷ You have to read the paper well enough to review it and to present it.
  - ▷ Then you should focus on the main topics and contributions of the paper

### Step 3 - Handling the paper

- You have to read the paper and to understand the following
  - ▷ What is the system under consideration? Could you specify the data of the hybrid dynamical system as done during the previous lecture?
  - ▷ Check if there are particular assumptions? If yes, what are their meaning?
  - ▷ What is the objective of the paper? What is the problem the authors intend to solve?

## Step 4 - Core of the paper

- You have to understand the following (at least in part)
  - ▷ What is the way chosen by the authors to address the stated problem?
  - ▷ What are the main tools, techniques used?
  - ▷ Check the main ingredients of the proofs (or at least of a part of the proofs)
  - ▷ Re-run the simulation part

## Step 5 - Presentation of the paper

- You have to prepare a presentation of the paper (15 mn)
  - ▷ including what you understood of the different elements of the paper (system, problem, technique, example, conclusion)
  - ▷ done with slides, on the board, on the IPAD tablet or more original
  - ▷ free format in the sense that you can decide if all the involved people have to talk, only one person presents... but after everybody answers the questions.
- You have to answer the questions
  - ▷ everybody of the group should participate to answer the questions
  - ▷ everybody of the other groups should participate to ask questions

### Group repartition

- Group 1: Marco, Lynn, Berta, Marcrik, Rohan
- Group 2: Castro, Alexander, Nadal, Elizondo
- Group 3: Yash, Saumaya, Shashans, Deerma, Monra
- Group 4: Tushar, Akash, Lanna, Nils, Armand