Evaluation –course on « Inverse problems and high dimension »

SCHEDULE : see the course website

1/ **Final written exam:** No document allowed –***Monday March 23rd***

2 / **Project**: paper / chapter presentation

- ***Tuesday January 26th:*** *Distribution and allocation of topics*
  Students organize an allocation of the proposed topics by groups of at most 4.
  In case of a disagreement, an allocation will be adjusted by the course lecturers
- ***Tuesday March 2nd:*** *Training session*
  5mn oral overview by each group to present topic, mention possible difficulties, get feedback and help from lecturers and from other students.
- ***Tuesday March 9th*** : Submission deadline (video + slides + ½ page report)
- ALL 15 minute video lectures to be watched offline by ALL students during the week
- ***Tuesday March 16th***: Oral session (10 minutes of questions per group)

EXPECTED PROJECT WORK

a. Written document: critical review

Written in French or English, on **half a page**, as a **critical review** (a la MathSciNet): summary of the topic, its stakes, the difficulties, novelties, main results, discussion of pros and cons of the paper.

Writing style, grammar and spelling must be done with care.

b. **Video presentation and slides**

15-minutes lecture to be made available to the course lecturers as a video recording, paying attention to ensuring a **balanced share of time** highlighting the **participation of each student of the group**.

PDF version of slides with page numbers to be made available to the course lecturers.

Each student is invited to ***watch the videos of the other groups*** before the oral session.

Mandatory participation of all students to the oral session to answer questions from the course lecturers.

It is important to **respect the allotted duration of the video lecture** : do not hesitate to use a timer!

A limited duration lecture cannot contain the same information as a 20 to 30 pages paper / chapter : **you have to make choices to bring us a viewpoint on the addressed topic**. Roughly count 1 minute 30 per slide, and seek a good **balance between giving a global view and being technically precise on selected aspects.**

Adapting the content to the expected background of the targeted audience is important: here the audience consists of the course lecturers as well as **all the students who followed the course.**

As an example, a standard lecture structure can be as follows*: considered problem and its context; state of the art approaches and/or approaches studied during the course; proposed approach; synthesis and discussion, possibly highlighting your own contributions (critical perspective, complementary bibliographical study, implementation, difficulties …) ; conclusion.*

Among other things, the grade will reflect an evaluation of:

Your understanding of the topic and of the studied papers / chapters.
Your ability to explain them: many persons in the audience are not necessarily experts.
Your critical analysis of the studied papers / chapters. Positive and negative criticism are both welcome, as appropriate.
Possible complementary bibliographical references bringing additional viewpoints.

PLANNED PRACTICALITIES

Submission of written + video material : via « portail des études » if technically adapted

Oral session: on site if possible, otherwise in hybrid mode or by videoconf

Details will be given as soon as possible according to technical and sanitary constraints.