

Individual Report – Experiment Design in CS

Summary

The student, individually, must write an experiment design proposal based on their own research topic. The general contents of the report should be as follows:

- Introduction to the research topic, and the relevant experimental questions;
- (Very Brief) review of the relevant literature;
- Experimental design (for designed experiments) or data cleaning and preconditioning (otherwise);
- Description of the data collection protocol.
- Proposal for Statistical modeling and analysis of the data;
- Discussion of the possible results of this experiment;

Notice that in this report *it is not required of you to perform the actual experiment*. If you have already performed some experiments (or pilot studies) related to your research, feel free to add them to the report, but it is not a requirement.

If you have not yet decided your research topic, feel free to use the research topic of an older student of your laboratory for this report. Consider the report as a source of inspiration for your own research.

If your research topic is not experimental in nature (for example, **purely** mathematical research), please contact the professor as soon as possible in order to discuss this.

Report

The report must be prepared using the same template as the Group Report and the case studies. The report should contain:

- Summary;
- Introduction, including the description of the *research question* being investigated and a brief literature review on the topic;
- Experimental design, including materials and methods, data collection protocols, criteria for including/excluding observations, etc.;
- Discussion on the **possible** results, pitfalls, and plans associated with the experiment;

The report will be evaluated according to the following criteria:

- Structure of argumentation;
- Technical correctness and methodological soundness;
- Compliance with the required format;
- Correct use of language (grammar, orthography, etc.);

Deadline

The report should be submitted, at the latest, on the day of the final seminar. It must be submitted as a PDF file through MANABA.