Research projects. General guide

1 Introduction

As you well know, 50% of this course's grade is obtained through a research project whose main outcome is a research article. There are two sorts of projects: projects that are proposed by the student or proposed by the professors. The project can be carried out individually or in pairs. We want projects to have a degree of innovation and this is why they are somewhat open-ended and vague. In fact, it is part of the project making things specific.

2 What we expect

In general, we want that through this project you learn to carry out research and demonstrate that you are able to apply the tools that we have seen in class in challenging contexts. By challenging contexts, we understand different scenarios, either you are applying existing techniques to large, hard-to-analyze and interesting networks, or you adapt existing techniques to a new scenario or apply network analysis in a novel, interesting domain. More precisely, the result of your project should be something like a research article, with the typical parts that a scientific analytical paper has: presentation of a problem to solve with motivation, methodology used, results obtained and discussion of results, together with a state-of-the-art and related work section. This project should go beyond what you have done so far in the labs, since there you had a very clear guide on what to do.

3 Submissions related to the project

The deadline for the project will be announced via Racó (the deadline is usually by mid January). You will have to submit the report together through Racó with any scripts, code, etc. that you have used during the execution of your project. If the project has been developed in pairs, it suffices that just one person in each team uploads the solution; obviously all the team's members' names should be named in the report.

We hope this will be a fun and profitable experience for you.

4   Format

We suggest to use Springer LNCS (latex) template for Computer Sciences Proceedings. Instructions and the latex package can be downloaded from `https://www.springer.com/gp/computer-science/lncs/conference-proceedings-guidelines`. To download the latex package directly follow `https://resource-cms.springernature.com/springer-cms/rest/v1/content/19238648/data/v4`.