

# SNE-projects 2020-2021

Coordinators:

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With help of Francesco Regazzoni

And the os3 team!

# Goals

- To gain practical experience
- To work on real problems in a foreign context
- To (re)gain collaboration skills
- To practice public presentation skills
- To practice data analysis and presentation skills
- To practice defending your solution to a problem
- To practice report writing skills
- To have a good and interesting time

# Timeline

- Two project months
  - January
  - presentations first week February
    - for us alone
    - Feedback
    - B1.23 or ...
  - June
  - presentations First week July
    - in the auditorium with public
    - C0.110 or H0.01 or ...

# Per project month

- 4 weeks FULL TIME!
  - Week 1:
    - Familiarize
    - Make a concrete work proposal
  - Week 2-3
    - Do the work agreed on
  - Week 4
    - Write report
  - Week 5...
    - In case of RP2 June month also work/report
    - Presentation in Mon-Tue-Wed meeting

# Subjects

- Organizations we have relationships with:
  - SURFnet
  - SURFsara
  - UvA - IvI - OS3 - SNE
  - HvA, VU, etc.
  - SME' s
  - Others (inter)national (DELOITTE, KPMG, UNINET, etc.)
- Orientation in October, November, April, May
- Check end of November and in December!
  - Be prepared to defend choice in a session!
- When choosing subjects take into account the master courses given before the project months.

# Work proposal

- Latest at Friday EoB of first week
- Should contain
  - Updated description of the problem
  - Research questions
  - Literature / model / theory
  - Research & Experiments to be done
  - Planning
  - Ethical issues section
- Can be basis for report later!

# Report

- Should contain
  - Description of the problem
  - Research question
  - Literature / model / theory
  - Research done
  - Experiments or proof of concept done
  - Evaluation of experiments or proof of concept
  - Reflection on Literature / model / theory
  - Ethical issues section
  - Conclusions and suggestions for further research

# Web / eMail

- Web site:
  - <http://rp.os3.nl>
  - <http://rp.delaat.net>
  - <https://homepages.staff.os3.nl/~delaat/rp/2020-2021/index.html>
- eMail:
  - [rp@os3.nl](mailto:rp@os3.nl) ← Always!!!
  - [delaat@uva.nl](mailto:delaat@uva.nl)
  - If all else fails: [cees@delaat.net](mailto:cees@delaat.net)
  - Always mail from your os3 or UvA mail account.
  - Always start subject line with rp# where # is the number of rp you have chosen!
    - Advantages: I can find email and do not have to search for rp number.



# FinePrint...

<https://rp.delaat.net/process.html>

If disputes arise I decide  
If you disagree →  
go to core team  
If not resolved →  
go to examin ctee

## Some simple rules for selecting and completing RPs: **RP selection**

- You can select a RP1 from the entire list. Choose subjects that relate to courses already followed.
- You can have no more than 2 re-sits from block 1 - 4 pending when you are choosing your RP2 subject.
- Security track students have to choose for RP2 a subject with a clear security research focus.
- Network track students have to choose for RP2 a subject with a clear systems and networks focus.
- Part time students have to do their RP2 in their 2nd year, preferably in June.
- Preferably not the same organization for RP1 and RP2.
- Your RP project can not be related to or supervised by your employer.

## **Working alone or in pairs**

- Preference for pairs because:
- students can help each other when one gets stuck in a problem...
  - investigate more solutions in parallel
  - team to collaborate
  - contribution of each student must be clear in report and presentation

However, doing an RP alone is also allowed.

Students working in pairs must be at same level (both RP1 or both RP2).

Not the same pairs for RP1 and RP2, choose a different partner

At the presentations pairs get 25 minutes, singles get 20 minutes (may vary depending on amount of students).

## **Attendance**

- You must spend 4 consecutive weeks full-time on the project without other SNE or work obligations in that period.
- You must make arrangements with your supervisor that you will be full-time present at their location or, if that is not possible, here at our SNE/UvA site (10:00-16:00).
- You will notify the SNE core team about any absence beforehand.
- You are not allowed to receive any financial compensation from the company you conduct your research at.

## **Feedback during RP**

During both RP1 as RP2 a voluntarily group meeting on the third Monday afternoon 16h00.

If that Monday is a holiday, that meeting will be on the third Tuesday.

Purpose is to exchange progress information and discuss potential or real encountered problems.

## **Fifth week**

- Presentation will be on wednesday, thursday and/or friday of fifth week
- Report must be submitted by friday of the fifth week.
- Extension in delivering a report is possible, ask for it.
- Optionally week 5 of the RP in June is available to continue and finish research.

## **RP order**

A student must successfully complete RP1 before starting RP2.

RP1 and RP2 can be done arbitrarily in January or June.

If failed for RP2, it is allowed to redo a RP2 at any time.

## **Evaluation**

The grade depends on a weighted average of four sub-grades

- 40% the research on the subject
- 20% the report structure and layout
- 20% the presentation
- 20% the work at the location, the attitude, etc.

A student has passed if:

- the grade is equal or higher than 6.0 and
- none of the sub-grades is less than 4 and
- the average, not rounded, grade for report and average grade for research must be 6.0 or higher.
- the end grade averages resulting in 5.5 are always rounded to 6.0

The grade for work is obtained from the supervisor, advise of grade on research, presentation and report from supervisor is very much appreciated.

This information must be delivered by supervisor preferably before end of fifth week.

The research, report and presentation are evaluated by the OS3 team and members of the SNE research group and, sometimes, os3 alumni.

The sub-grades are typically averages and are not rounded at any time.

Marks for presentation are determined before end of fifth week, typically on the day of presentation.

Evaluation and if needed corrections of report can take up to 6 weeks (pending holidays in July).

If the other sub-grades are 6.0 or more but the research and/or report is less than 6.0, then you may be offered an opportunity to correct the report. Correcting the report and better description of the research may also change the research sub-grade. The decision for that depends on if the staff considers it possible given the reviews to revise the report such that research and report grades become passable.

[Here is the form](#) to use for evaluations at the presentations.

Here is a [document](#) describing the entire evaluation criteria.

## **Report**

We expect the report roughly to contain the following chapters/paragraphs:

- title, abstract
- Introduction, context
- Problem statement, research question
- Related/prior work
- Model, Method
- Experiment(s), implementation, data gathering
- Analysis, evaluation, results, comparison to model, simulation
- Conclusions
- Suggestions for future work
- Appendices with source code, raw tables, etc.

Obviously this can vary depending on type of research, subject, etc.

## **Publication of results**

the marks will be emailed to the students and reported to the ESC.

## **Communication**

All communication happens using email addresses from either OS3 or UvA. This is to avoid trigger happy gmail sensitive spam filters.

Students are responsible of checking if mail arrived at team or supervisor.

- E.G. you can not assume the supervisor or coordinator received the email because you did send it.
- If important request a confirmation and check if that does not come.

# Process - 1

## Selection

- Preferably do not choose subjects that will be covered in subsequent courses.

## Working alone or in pairs

- Preference for pairs
  - students can help each other when one gets stuck in a problem...
  - investigate more solutions in parallel
  - learn to collaborate
  - contribution of each student must be clear in report and presentation
  - Sheer numbers and availability of topics
  - However, alone is not ruled out
- At the presentations pairs get 25 minutes, singles may get 20 or 25 minutes.

## Feedback during RP

- During both RP1 as RP2 a voluntarily group meeting on the third Monday afternoon 16h00.
- Purpose is to exchange progress information and discuss potential or real encountered problems.

## Fifth week

- Optionally week 5 of the RP in June is available to continue and finish research.
- Presentations scheduled in that week, report must be received by midnight Sunday

## RP order

- A student must successfully complete RP1 before starting RP2.
- RP1 and RP2 can be done arbitrarily in January or June.
- If RP2 failed and is the only course left over, it is allowed to redo a RP2 at any time.

# Evaluation

- The grade depends on a weighted average of four sub-grades
  - 40% the research on the subject
  - 20% the report structure and layout
  - 20% the presentation
  - 20% the work at the location, the attitude, etc.

# Process - 2

## Evaluation

- Advise from the supervisor about the research done on location.
- Advise on presentation and report is welcome.
- this information must be delivered by supervisor before end of fifth week.
- report and presentation are evaluated by the OS3 team.
- Marks for presentation are determined before end of fifth week.
- Evaluation and if needed corrections of report can take up to 6 weeks (pending holidays in july).
- A student has passed if:
  - the grade is equal or higher than 6.0 and
  - none of the sub-grades is less than 4 and
  - the grade for report and research must be 6.0 or higher
  - the end grade averages resulting in 5.5 are always rounded to 6.0

## Publication of results

- the marks will be mailed.

## Colloquia

- We aim to schedule colloquia about research in computer science to give more context for the RP' s.

## Communication

- All communication happens using email addresses from either OS3 or UVA.

# Non Goals

- To be the default groups coffee maker
- To do trivial software installs
- To pull cables as main activity
- To sort out all software cd' s
- Etc. etc. etc.

Have fun !

Questions?