



Introduction of project part

Chunliang Wang, MD, PhD
Department of Biomedical Engineering and Health Systems
KTH Royal Institute of Technology
chunwan@kth.se



About the project

Pick a medical image analysis challenge from grand-challenge.org (other public challenges are also valid if approved by the lecturer)

Work on a solution, preferably using your own code from the labs.

Optimize the performance of your solution using the techniques you learned during this course

For master students: it is recommended to work in pairs
For PhD students: you have to work on you own.



The aim is not to win any of the challenges (at least for now)

It is to demonstrate the knowledge you learned from this course

Data handling

Network setup and optimization

Ability to analyze the differences of DNN options

Proper evaluation scheme



Deliverables

Runnable Code (on github and on the servers, with dataset properly stored)

A **readme document** includes running instructions, main findings and short discussions about the results (such as, how does your method compare with the leaderboards of the challenge, why the performance is not satisfactory or what can be done to get better, etc)

A 20min **presentation** (including discussion time)



Evaluation criteria of the project

Solution Originality (you can reuse code from our labs, but you cannot copy others' solutions found online)

Showing understanding and efforts on model optimization

Proper evaluation scheme and discussion of the results

Code clarity

Code contribution (statistics in git)



Working on the server

Please store the data in

/DL_course_workdir

Or

/tf

You can run 24-7

run via ssh + screen

Or

run via jupyter terminal



Ads

Every semester we will open 3-4 master thesis worker positions (plus a few more from other colleagues)

Students who have taken CM2003 will be given higher priority

Short project course is also possible(HL2029)