

Organization & Project: Intelligent Systems in Medicine

Organization



- Next exercises:
 - 18.11.: Search & Optimization & Project introduction
 - 2.12.: Classifier & Metrics
 - 16.12.: Deep Learning & Pytorch tutorial
 - 6.01.: Gaussian Process Models
 - 20.01.: Recap before exam

Check time schedule for more information on project deadlines.

Tutorial/Exercise



- Tasks will be uploaded a few days before tutorial
- No need to finish tasks before tutorial but feel free to get started
- There will be time during the tutorial to work on the tasks, after a short recap of the topic
- Solutions will be uploaded after tutorial
- Tasks are relevant for exam

Schedule



Date	Lecture	Tutorial	Project
3.11.20	Introduction	-	-
4.11.20	-	Organization & Project	-
10.11.20	Search & Optimization	-	-
11.11.20	-	-	Deadline project registration
17.11.20	Search & Optimization	-	-
18.11.20	-	Search & Optimization	Project introduction
24.11.20	Simple learning	-	-
25.11.20	-	-	Project start & Deadline time schedule
1.12.20	Simple learning	-	-
2.12.20	-	Classifier	Metrics & Feedback 1
8.12.20	Deep Learning	-	-
9.12.20	-	-	-
15.12.20	Deep Learning	-	-
16.12.20		Deep Learning & Pytorch Tutorial	Feedback 2
20.12.20			Deadline phase 1
21.12.20			
- 03.01.21	Christmas Break		
5.01.21	-	-	-
6.01.21	-	GPM	Feedback 3
12.01.21	-	-	-
13.01.21	-	-	-
19.01.21	-	-	-
20.01.21	-	Recap for exam	Deadline phase 2 & Feedback 4
26.01.21	Project presentation	-	-
-	Exam	-	
28.02.21	-	-	Deadline report

Time schedule project groups



- Overview of the different tasks, e.g. data loading, image pre-processing / implementation pre-processing pipeline
- Assign tasks to group members
- Gantt charts, ...
- You will get feedback from us regarding your time schedule (zoom call)

				O	Nov				Dec					
ID	Title	Start Time	End Time	30	01 - 07	08 - 14	15 - 21	22 - 28	29 - 05	06 - 12	13 - 19	20 - 26	27 - 02	03 - 09
1	Student 1Task 1	11/30/2020	12/14/2020						<div></div>					
2	Student 1 Task 2	12/10/2020	12/30/2020							<div></div>				
3	Student 2 Task 1	11/30/2020	12/21/2020						<div></div>					

Feedback 1-4



- Send an email (johanna.sprenger@tuhh.de) and give feedback based on your group's time schedule
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- What tasks did you work on/finish?
 - Why did you not finish assigned tasks (problems and possible solutions)?
 - How is the group work (report any issues) ?

Deadline 1 & 2



- Phase 1: classification with classical feature extraction
- Phase 2: classification with neural networks
- More detailed information during project introduction (also on feature extraction)
- You can decide when to start which each phase, but as the deep learning lectures will be later on in December, we recommend starting with phase 1
- Deadline for phase 1 on 20th of December
- Deadline for phase 2 on 20th of January

Deadline report



- Write scientific paper (one paper per group!)
- 4 pages (use Latex template from Stud.IP)
- 8-12 references
- Senseful structure: introduction, material&methods, results, discussion, conclusion, ...
- Include images, tables, metrics, charts, ...
- Indicate operating expense of each student (for bonus points allocation), e.g. in an additional document/ email, or add names to titles, ...

Questions?



- Bonus points
- Exam
- Questions?

If you have questions, please write an email to Johanna Sprenger (johanna.sprenger@tuhh.de) or Martin Gromniak (martin.gromniak@tuhh.de)!