Computer Vision Lecture

Labs Overview

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Exercise Plan

	Overview	21-Sep	22-Sep	Shaohui
1	Feature Extraction & Optical Flow	28-Sep	29-Sep	Petr
	Exam Prep Session	5-Oct	6-Oct	Petr
2	Deep Learning for CV	12-Oct	13-Oct	Zuoyue
	Exam Prep Session	19-Oct	20-Oct	Zuoyue
3	Recognition	26-Oct	27-Oct	Kaifeng
	Exam Prep Session	2-Nov	3-Nov	Kaifeng
4	Image Segmentation	9-Nov	10-Nov	Gen
	Exam Prep Session	16-Nov	17-Nov	Gen
5	Object Detection & Tracking	23-Nov	24-Nov	Korrawe
	Exam Prep Session	30-Nov	1-Dec	Korrawe / SA2
6	SfM & Model Fitting	7-Dec	8-Dec	Fangjinhua
	Exam Prep Session	14-Dec	15-Dec	Fangjinhua

Assignments

- Python assignments implementing CV algorithms
- Pre-requirements: OS
  - **Ubuntu** (TAs will mostly develop the assignments under Linux)
  - Windows: WSL 2.0 - https://learn.microsoft.com/en-us/windows/wsl/install
  - MacOS: miniconda (some packages have issues)
  - Backup option: upload to google collab and develop there https://colab.research.google.com/
    - You can run console commands with ! in a cell: “!python test.py”, “!pip install numpy”
- Hand-in: code (zip) + report (pdf)
- Q&A: on the associated moodle forum
- Deadline: 2 weeks after assignment is published
- Grades: 2-4 weeks after submission deadline (+ Q&A with SA)
- **25% of final grade (75% written exam)**

Exercise sessions

- Solving exam problems from previous years
- Problems and high-level solution guidelines will be posted on moodle
- **Not graded**