GPU Programming in Computer Vision

Summer Semester 2015

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Time Schedule and Grading

Time Schedule:

- September 7-11: Lecture from 10:00-12:00, Exercises from 13:00-18:00.
- September 12-October 4: Project Phase, work on your own.
- October 5-October 6: Presentation and live demo.

Grading:

- 25 % : Exercises of the first week
- 75 % : Project

Exercises (First Week)

- You are free to work in groups of 2–3 students.
- On Wednesday we will present suggestions for the final project.
- Form groups of three for the project and let us know until Friday evening.
- There will be a new exercise sheet each day from Monday – Thursday.
- We will start checking your solutions of each sheet on the next day after the lecture.
- You have to be able to explain the code to receive the points.
- There will be no lecture or exercise sheet on Friday.

Project Phase (September 12–October 4)

- Implement a computer vision algorithm in CUDA.
- We will give an introduction of possible topics on Wednesday September 9, but you are invited to be creative and make own suggestions.
- Meet with your tutor in the beginning of next week to discuss your topic.
- Work in groups of 3 students.
- The source code must be sent to your supervisor by **October 4**.
- If we detect cheating, for example too much similarity in large parts of the solutions, all involved groups will get the grade 5.0.

Presentation and Demo (October 5–6)

- 15 minutes per group
- Prepare slides
- Explain the task
- Explain how you proceeded to solve the task
- Show your results

Course Website and Mailing Lists

Course Website:
https://vision.in.tum.de/teaching/ss2015/gpucourse_ss2015

Tutor Email: cuda-ss15@vision.in.tum.de