GPU Programming in Computer Vision

Summer Semester 2014

Thomas Möllenhoff, Mohamed Souiai, Maria Klodt, Jan Stühmer

Time Schedule and Grading

Time Schedule:

- September 8-12: Lecture from 10:00-13:00, Exercises from 14:00-18:00.
- September 15-October 3: Project Phase, work on your own.
- October 6-October 10: Presentation and live demo.

Grading:

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

Exercises (First Week)

- Work in groups of 3 students.
- Groups must be formed today $\rightarrow$ **put your names on the list.**
- There will be one exercise sheet every day of the first week except friday (four sheets in total).
- We will check 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.

Project Phase (September 15-October 3)

- Implement a computer vision algorithm in CUDA.
- We will give an introduction of possible topics on September 15, but you are invited to be creative and make own suggestions.
- Meet with your tutor in the beginning of next week to agree on a topic.
- Again, work in groups of 3 students.
- The source code must be sent to your supervisor by **October 3**.
- 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 (Last Week)

- 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/ss2014/gpucourse_ss2014`

Tutor Email: `cuda-ss14@in.tum.de`

Students Email: `cuda-students-ss14@in.tum.de`