Introduction to Deep Learning for Computer Vision – Pre-meeting

Agenda

"Introduction to Deep Learning for Computer Vision" is a one-week hands-on lab course that takes place in the CIP pool NA 04/494 from 02/05/2018 to 02/09/2018. The first four of the five days begin with an introductory lecture to the day's topic. This will start at 10.15 and will take between 45 to 90 minutes. The rest of the time is dedicated to practical exercises. You can work on the exercises in groups of up to two students which is explicitly encouraged. One course supervisor will be present to help with problems that may (and will) occur. The last day of the course will not present any new material. Instead, this time is meant for preparing the coursework or catching up on exercises that may not have been completed during the week.

Contact

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Coursework

In order to grade the course, you should hand in all source code that you have written (via email). Additionally, a short summary of the lab course should be filed. It should contain design choices, problems, their solutions, and results of the experiments. This submission is due on 02/23/2018. Please be aware that any material you want to use in this report (e.g., visualizations or results) must be copied from the CIP pool computers before the lab course ends.

Using your own system

Computers in the CIP pool will be set up properly, however, it is possible to use your own computer or notebook. Please mind that some of the exercises will demand extensive training which may take a long time if performed on an older system. As a point of reference, you should be fine with an Intel Core i7 - 4702MQ 2.20 GHz with 8 GB RAM (or slightly weaker). You should set up a Python environment (at least 3.6) with SciPy (at least 0.19.0), Tensorflow (at least 1.3.0), OpenCV (at least 3.3.0) and Joblib. We recommend to use an Anaconda distribution (at least 4.4.0) that will already contain SciPy and some of the more common packages.