CDS6334 Visual Information Processing

Installation instruction for Python Environment

For this course, the Anaconda platform with Python 3.12 is recommended for the practical exercises. Please follow the instructions below to install and set up Anaconda on your PC/Laptop.

1. Download and Install Anaconda (https://www.anaconda.com/download).
   Select the version with Python 3.12, 64-Bit Graphical Installer.

2. Launch Anaconda prompt and at the command prompt:
   a. Setup an environment by giving a name, for example 'CDS6334' (can be any other names):
      - *conda create --name CDS6334 python=3.12 ipython*
      - *conda list -n CDS6334*
      - *conda activate CDS6334*

   b. Install the following packages:
      - *conda install pip*
      - *pip install numpy*
      - *pip install scipy*
      - *pip install pandas*
      - *pip install seaborn*
      - *pip install Pillow*
      - *pip install scikit-learn*
      - *pip install scikit-image*
      - *pip install opencv-python*
      - *pip install opencv-contrib-python*
      - *pip install ipympl*
      - *pip install spyder (python IDE, you can use alternatives if you prefer e.g. VS Code)*
      - *pip install jupyter (for jupyter notebook)*

   c. To launch Jupyter Notebook:
      - *navigate to the dir you store your program, eg: cd \2410\CDS6334\Labs*
      - *conda activate CDS6334 (CDS6334 is the environment name)*
      - *jupyter notebook*
      - *Select the preferred browser to host the session*
      - *Test running the codes in Lab00.ipynb to ensure the installations are correct*

Note: There may be other packages to be installed at a later stage.