

Notice for Laboratory Record Preparation

Deep Learning for Computer Vision Laboratory

The following are the scheduled dates and corresponding experiments to be conducted in the Deep Learning for Computer Vision Laboratory. The last session will be reserved for the Lab Internal Examination. All students are instructed to prepare their lab records accordingly.

Date	Experiment Description
03/08/2024	Write a program to perform different 2D and 3D transformation techniques on a given image using Python.
17/08/2024	Write a program to simulate different Linear and Non-Linear filters on a given image using Python.
24/08/2024	Write a program to implement Canny edge detection algorithm using Python.
31/08/2024	Write a program to extract interest points of an image by SIFT Detector using Python.
21/09/2024	Write a program to implement Image stitching panorama using Python.
28/09/2024	Write a program to implement Bag-of-words for a given image using Python.
19/10/2024	Write a program to implement Artificial Neural Network to classify MNIST dataset.
26/10/2024	Classification of CIFAR-10 Dataset using AlexNet with PyTorch.
02/11/2024	Classification of CIFAR-10 Dataset using ZFNet with PyTorch.
09/11/2024	Classification of CIFAR-10 Dataset using VGGNet with PyTorch.
16/11/2024	Object detection for PASCAL VOC dataset using YOLO Object Detection.
23/11/2024	Image generation of CIFAR10 datasets using DCGAN with PyTorch.
30/11/2024	Lab Internal Examination

Note: Students are required to prepare their lab record with this cover letter and get signature from the course instructor and HoD before the Lab External examination on 09/12/2024.