# EE655: Computer Vision and Deep Learning

# Homework 4

**Q1)** Implement transposed convolution from scratch as a generic function that takes the following inputs:

1. A 2D matrix on which transposed convolution needs to be performed.

2. A 2D kernel used for transposed convolution.

3. A stride parameter.

4. A crop parameter.

**Q2)** Implement the Intersection over Union (IoU) metric from scratch as a generic function that takes two binary matrices as inputs.