

Course Overview

This short-term course is focused on the modern approach to computer vision tasks using deep learning techniques. It aims to cover topics ranging from the key fundamental concepts to the recent research directions in this area. In addition, the course will include detailed discussions on the state-of-the-art approaches for different computer vision tasks in healthcare and biometric security. The lectures in this course will be delivered by experts in this field, including

1. Dr. Niladri Bihari Puhan (School of Electrical Sciences, IIT Bhubaneswar)
2. Dr. Arnav Bhavsar (School of Computing and Electrical Engineering, IIT Mandi)
3. Dr. Surya Prakash (CSE, IIT Indore)
4. Dr. Puneet Gupta (CSE, IIT Indore)
5. Dr. Vivek Kanhangad (EE, IIT Indore)

Course Highlights

- Traditional Approach
- Overview of **Deep Learning**
- Convolutional Neural Networks (CNN)
- Unsupervised **Representation/ Feature Learning**
- Deep learning techniques for basic computer vision tasks such as **Image Denoising** and **Image Classification**
- Deep learning techniques for computer vision tasks in **Healthcare** (Biomedical applications) and **Biometrics**

TEQIP III



TEQIP-III Sponsored Short Term Course on Deep Learning for Computer Vision

Indian Institute of Technology Indore

November 26-28, 2020

Security (fingerprint recognition, face recognition, etc.)

- Development of **Deep Learning Models** during Lab sessions with Python/MATLAB

Registration Fee

1. Faculty members from institutions under TEQIP-III: **No fee**
2. Other faculty members: **Rs. 3000**

Last date for registration: **November 22, 2020**

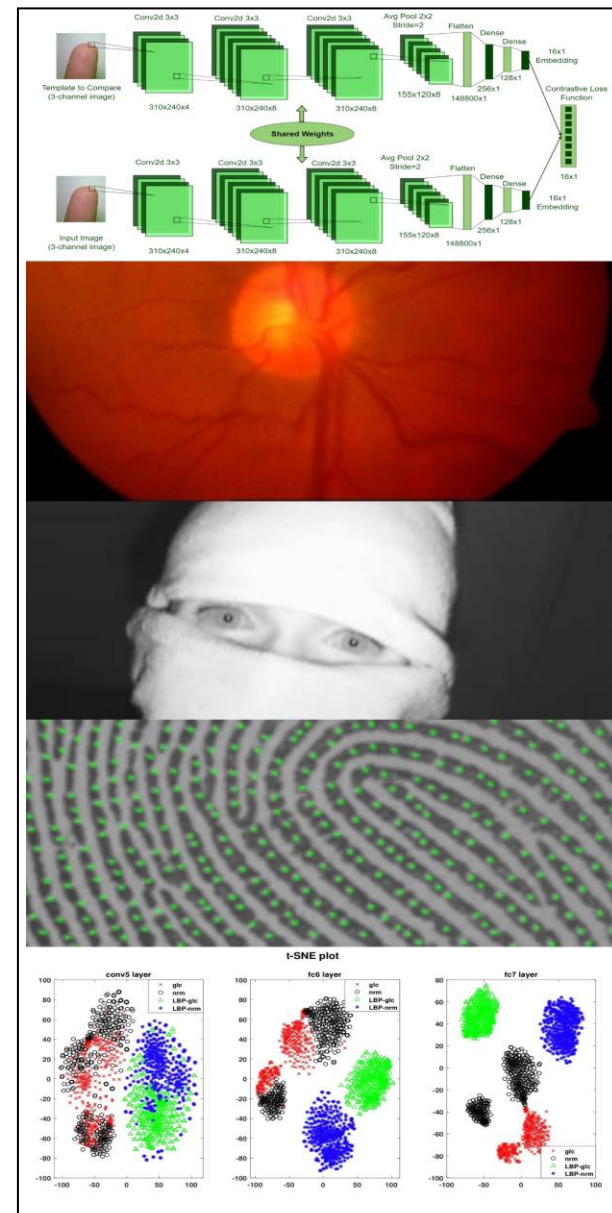
The number of faculty participants from the institutes under TEQIP III is limited to 50.

Registration Link

[Click Here](#)

Who will benefit from this course

Faculty members



Course Coordinator:
Dr. Vivek Kanhangad
Associate Professor
Discipline of Electrical Engineering
Indian Institute of Technology Indore