

One-week Online Short-Term Training Program

on

“Recent Advances and Challenges in Computer Vision”

Duration: December 3-7, 2021.

Coordinator: Dr. Chhavi Dhiman, Assistant Professor, Department of ECE, DTU

Co-coordinator: Mr. Rahul Thakur, Assistant Professor, Department of ECE, DTU

Important Dates	
Last date to register Online	1-Dec-2021
Email to shortlisted participants	2-Dec-2021
Confirmation from participants	2-Dec-2021
Final List of shortlisted Participants	2-Dec-2021
Commencement of STTP	3-Dec-2021

Address for Communication
Coordinator, STTP Department of Electronics and Communication Engineering Delhi Technological University (formerly known as Delhi College of Engineering) Bawana Road, Delhi-42 Email: raj@ecce.dtu.ac.in

Organizing Committee
Chief Patron: Vice Chancellor, DTU
Patron: Registrar, DTU
Chairperson: Head of the Department, ECE
Programme Coordinator: Dr. Chhavi Dhiman
Co-coordinator: Mr. Rahul Thakur



One Week Online Short Term Training Programme (STTP)

on

“Recent Advances and Challenges in Computer Vision”

3rd December to 7th December 2021



Organised by:

Department of Electronics and Communication Engineering
Delhi Technological University
(formerly known as Delhi College of Engineering)
Bawana Road, Delhi-42

About the University

Delhi Technological University (DTU), formerly known as the Delhi College of Engineering (DCE), is a public engineering university located in New Delhi, India. It was established in 1941 as Delhi Polytechnic and was under the control of Government of India. The college has been under the government of the National Capital Territory of Delhi since 1963 and was affiliated with the University of Delhi from 1952 to 2009. In 2009, the college was given the state university status, thus changing its name to Delhi Technological University. It offers courses towards Bachelor of Technology (B.Tech), Master of Technology (M.Tech), Doctor of Philosophy (PhD) and Master of Business Administration (M.B.A.) and contains fourteen academic departments with a strong emphasis on scientific and technological education and research.

About the Department

The Department of Electronics and Communication Engineering has seen considerable growth since its inception in 1976. The vision of the department is to focus on the incubation of innovations in the areas of electronic design/fabrication, communication technologies and the field of AI, which are needed to address the growing challenges of tomorrow. The overall aim is to harbour a sustainable, and continuously evolving scientific, technological and educational environment which is both internationally adapted and industry-relevant. This department offers UG/PG and Ph. D. programmes. Project and Industrial Training is an integral part of the curriculum and are carried out in frontal areas of technology. Currently the Department has 11 well equipped curriculum laboratories and 4 research laboratories. There are separate departmental project laboratories in existence. Department of ECE offers Postgraduate course in VLSI Design and Embedded Systems; Signal Processing and Digital Design; and Microwave and Optical Communication specialisations. The Department has focused attention on quality research.

Scholarships are available for Ph. D. programs in the field of VLSI, Digital Signal Processing (DSP), Image Processing, Computer Vision, Machine Learning, Micro strip antenna design, Sensor Networks, Analog and digital system design.

About the Programme

We are delighted to inform you that the department of electronics and Communication Engineering (ECE), Delhi Technological University, is planning to organise a short term training program on Recent Advances in Computer Vision Applications² at DTU. We are pleased to welcome all the participants (Faculty/ Research Scholars/ students) looking for enhancing their skills in the field of Deep Learning and Computer Vision and to get the insights and update about the recent trends and advances taking place in various computer vision applications such as complex shape descriptions, Visual Speech Recognition, Video sentiment analysis, autonomous vehicle tracking. The course focuses on how the vision based learning models are evolving with the application of Machine Learning, Deep

Course Objectives

The objective of the course is to enhance the knowledge of the participant in the field of computer vision and its applications. Also, in this course, emphasis is given on updating the knowledge with recent advances in DL models, various challenges involved to understand the dynamics of research going on in the field of computer vision and its applications.

Programme Content

- Introduction to AI and Machine Learning
- Introduction to Deep Learning

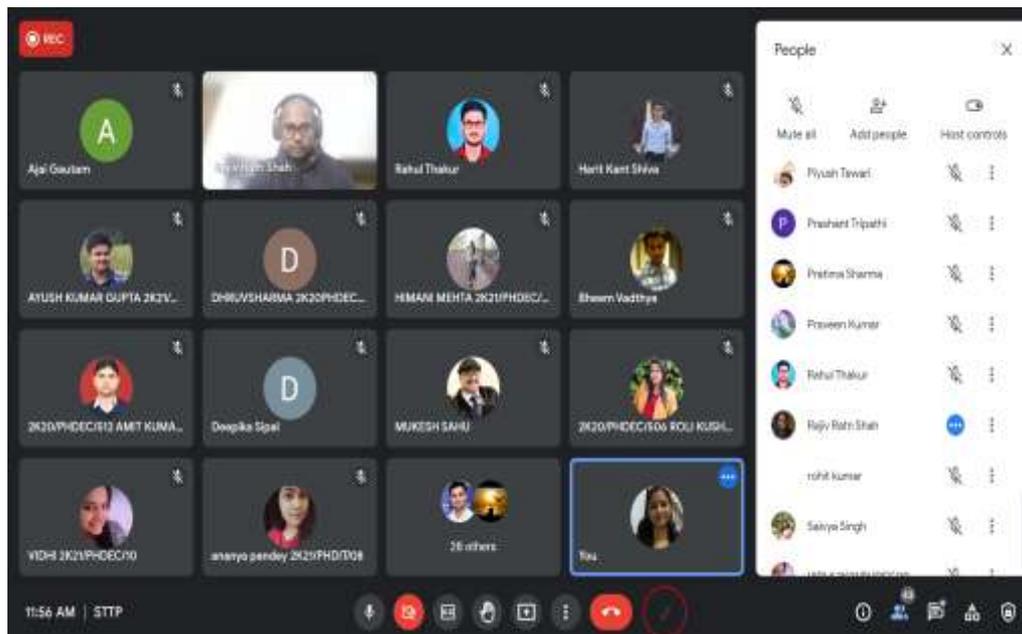
- Application of Deep Learning in Computer Vision based solutions
- Convolution Neural Networks
- Transformers, GANs
- Recurrent Neural Networks and LSTMs

Intended Audience

The programme is open to the (Faculty/ Research Scholars / Students) members of AICTE/UGC approved Engineering Institution/ Universities /R&D Labs and personnel from industries working in the Field of AI, DL and Computer Vision.

How to Register

- Registration Link: <https://forms.office/vGqF3XmW788MhV58s>
- No Registration fees will be charged from the participants.
- The number of participants are limited to 200.
- Participant's registration will be confirmed on the first come first serve basis.
- The certificate of participation will be issued to the participants who have attended the program with minimum 80% attendance and 60% marks in the test



12:42 PM | STP

REC Amit Sangroya is presenting

Existing ML Models

Accuracy vs Interpretability Tradeoff?

Interpretability

Accuracy

Linear Regression
Decision Tree
K-Nearest Neighbors
Random Forest
Support Vector Machines
Neural Nets

BCS

People

- Mute all
- Add people
- Host controls
- JYOTI SHARMA
- kamakshi maulele
- Kavita Singh
- kirti sunje
- Levi Tanwar
- Lavita Virmani
- Manjeet Chhillar
- Mughed A. M. Sharafuden
- MUKESH SAHU

11:09 AM | STP