



SERB Sponsored One-day Workshop (online) on AI and Computer Vision for Autonomous Vehicles



Organized by

**Department of Computer Science
and Engineering**

**Indian Institute of Information
Technology, Design and
Manufacturing (IIITDM),
Kancheepuram.**

Chennai - 600 127

www.cse.iiitdm.ac.in

on

13th January 2024

Sponsored By: Science and Engineering
Research Board (SERB)

(Scientific Social Responsibility (SSR) policy of
SERB Start-up Research Grant (SRG) under the
project titled “**Situational Awareness in
Self-driving Cars using Machine Learning**”)

ABOUT THE INSTITUTE

Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram (IIITDM Kancheepuram) is an Institute of National Importance established in 2007 by the Ministry of Education, Government of India, to pursue design and manufacturing oriented engineering education and research and to promote competitive advantage of Indian products in global markets. The institute is presently offering various B.Tech programs in Computer Science and Engg., Electronics and Communication Engg., Mechanical Engg., and Smart Manufacturing, M.Tech & DD programs, and interdisciplinary Ph.D. programs in core and applied areas of engineering.

ABOUT THE DEPARTMENT

IIITDM Kancheepuram's Computer Science and Engineering curriculum is modeled on the ACM recommendations and is the first of its kind engineering program offered in India. This program is aimed at producing engineers equipped with skills required for efficient hardware-software interaction. In addition to courses offered by the conventional Computer Science curriculum, this novel program offers core courses such as Embedded Systems, Human-Computer Interaction, Simulation and Modelling, Signals and Systems, Product Design etc. The Department offers programmes such as B.Tech (CSE, CSE-AI both), Dual Degree programmes, M.tech in AI and Ph.D in various research areas. There are 14 faculty members who are actively involved in different research areas such as, Artificial Intelligence, Machine Learning, Image processing, Computer Vision, High Performance Computing, Theoretical Computer Science, IoT, Cyber Security etc.

IMPORTANT DATES

Last date for applications : 9th January 2024

Intimation of selection : 10th January 2024

Confirmation of participation : 11th January 2024

No registration fee. Registration is on a first come first serve basis. Selected registered candidates will be communicated via Email.

For further details, please contact:

Dr. Ram Prasad Padhy

Assistant Professor

Department of CSE, IIITDM Kancheepuram,
Chennai – 600 127.

E-mail: rampadhy@iiitdm.ac.in

**SERB Sponsored One-day Workshop
(online mode)
on**

**AI and Computer Vision for
Autonomous Vehicles**

13th January 2024

APPLICATION FORM LINK

**Please fill the Google form using
the link below**



Click the form icon or scan QR code

Link: <https://forms.gle/5DH8r2SkXFYn1Kfa7>

Eligible faculties are requested to submit the filled in application (Google form) along with a valid institute faculty identity card scan-copy (name and affiliation clearly visible) on or before **9th January 2024**.

Candidates are required to register using their institute email id only. Candidates registering through personal email ids will not be shortlisted for the workshop.

ABOUT THE WORKSHOP:

INTRODUCTION

In recent years, Autonomous Vehicles, commonly known as self-driving cars, have gained prominence in the research domain. The proposed one-day workshop aims to deliver the topics related to various Artificial Intelligence and computer vision techniques required for the perception in Autonomous Vehicles. It will cover different perception techniques based on a variety of sensors, such as Camera, LIDAR, Radar, GPS, IMU *etc.*

WORKSHOP OBJECTIVES

The objective of this event is to educate the applicants on various AI and computer vision techniques needed for perception in Autonomous Vehicles. The workshop will also include one practice session.

TOPICS TO BE COVERED

- AI and Computer Vision techniques for perception in Autonomous Vehicles
- Introduction to Robot Operating System (ROS)
- Hands-on Practice Session for ROS, AI and Computer Vision for Autonomous Vehicles

RESOURCE FACULTY

The resource faculty includes expert(s) from IITDM Kancheepuram.

ELIGIBILITY

Engineering college faculties are eligible to apply for the workshop.

REGISTRATION FEE

There is no fee for the participants.

MODE

The workshop will be conducted in online mode, and the attendance during all the sessions is compulsory to receive the certificate. The workshop link will be sent to the shortlisted candidates by 12th January 2024.