AICTE Sponsored QIP Short Term Course on Machine Intelligence for Computer Vision

Organized by
Department of Computer Science and Engineering, Indian Institute of Information Technology, Design and Manufacturing Kancheepuram, Chennai - 600 127
www.cse.iiitdm.ac.in

Between
28th February – 5th March 2022

Coordinators
Dr. Jagadeesh Kakarla
Dr. Rahul Raman

ABOUT THE DEPARTMENT

Department of Computer Science and Engineering (CSE) offers design centric programmes such as B.Tech (CSE), Dual Degree (DD) programmes, B.Tech in CSE and M.Tech in CSE (with specialization in AI) and Ph.D in various research areas. The department laboratories are equipped with powerful HP Workstations, FUJITSU Windows Server, IBM Debian Linux server and network infrastructure such as the ISDN equipment, network distribution switches, firewall and redundant wireless access controller to cater to the computing needs of the institute practice courses. The Institute is also equipped with a personal Super Computer employing 4 Tesla cards giving a peak performance of 4.12 Tflops to assist in the advanced courses. The HCI laboratory houses a powerful image processing workstation with intel x5690 6 core processor with dual monitor support.

IMPORTANT DATES
Last date for applications : 25-02-2022
Intimation of selection : 26-02-2022
Confirmation of participation : 27-02-2022

For further details, please contact:
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ABOUT THE INSTITUTE

IIITDM Kancheepuram is a Centre of Excellence for technical education and research established in 2007 by the Ministry of Education, Government of India to pursue design and manufacturing oriented engineering education with research leading to promote the competitive advantage of Indian products in global markets.
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APPLICATION FORM

Please fill the Google form using the link below,

Click the form icon or scan QR code

Eligible teachers are requested to submit the filled in application (Google form) along with the sponsorship certificate in the format given below on or before 25-02-2022.

ABOUT THE COURSE:

INTRODUCTION
Machine learning techniques have transformed the world in such a way that our life is surrounded by numerous smart machines that learn from the past experiences and brings efficient, effective, and personalised smart solution. Computer vision tools are used to acquire all the visible data ranging from satellite images to microscopic images that undergoes machine learning and deep learning based training to yield various classifications, identifications, and other inferences that resembles human like intelligence with precise and fast computing ability.

COURSE OBJECTIVES
The objectives of the short-term course are focused on the fundamentals of computer vision tools and study them alongside suitable machine learning methods to learn various advancements and scope of future improvement in numerous domains like biometrics, visual surveillance etc., and various supporting machine learning and deep learning methods.

COURSE OVERVIEW
- Fundamentals of Image Processing & Computer vision
- Introduction to python & Edge detection,
- Introduction to Machine learning for Medical Image Processing, Person re-identification, Biometric security, Visual Surveillance
- Image classification and segmentation using ML approaches, Medical image processing
- Basics of deep learning, CNN, Variants of CNN, and Challenges, Implementation of CNN and its variants
- RNN, LSTM, Auto Encoder and Decoder, and Implementation

COURSE DURATION
The course is of one-week duration from 28th February 2022 to 5th March 2022.

RESOURCE FACULTY
The resource faculty includes experts from both academia and industry.

ELIGIBILITY
Engineering college teachers from AICTE approved colleges are eligible to apply for the course.

REGISTRATION FEE
There is no course fee for the participants.

MODE
The course will be online, and the attendance during all the sessions is compulsory. The course link will be sent to shortlisted candidates (maximum of 100) by 27th February 2022.
SPONSORSHIP CERTIFICATE FORMAT

Certified that Dr./Sri./Smt. ………………….. is a faculty of our Institute and is being sponsored hereby for attending the QIP short term course on “Machine Intelligence for Computer Vision” to be conducted by Computer Science and Engineering, IIITDM Kancheepuram in online mode from 28th February – 5th March 2022.

Signature of Sponsoring Authority

(With date and seal)