Joint Two Weeks Online Certificate Programme

organized by IIT Guwahati, IIT Kanpur, MNIT Jaipur, NIT Patna, PDPM IIITDM Jabalpur

Machine Learning for Computer Vision

February 1-12, 2021

Date	Day	3:00-3:15	3:15-5:15	5:30-7:30
		Inaugural Session		
1-Feb-21	Monday	Welcome Address by Course Coordinators	Inaugural Lecture (L1) Prof. Shantanu Chaudhury, Introduction to Computer Vision	Lab Session 1 (P1) Introduction to Python Programming
		3:00-5:00		5:30-7:00
2-Feb-21	Tuesday	L2: Dr. Suresh Sundaram, IIT Guwahati Fundamentals of Image Processing [Traditional approaches in CV]		P2:Edge detection, image enhancement and segmentation
3-Feb-21	Wednesday	L3: Prof. A. Ojha, IIIDM Jabalpur Introduction to AI and ML		P3: Image classification and segmentation using ML approaches
4-Feb-21	Thursday	L4: Dr Santosh Viparthi, MNIT Jaipur Introduction to Deep Learning		P4: Building a Deep Neural Network Model for Classification problems
5-Feb-21	Friday	L5: Prof. H. Fujiyoshi, Chubu Univ. Japan Convolutional Neural Network, CNN Architectures and Applications to CV		P5: Implementing a CNN model for feature extraction and classification
		10:00-11:30 & 11:30-1:00PM		2:00-4:00 PM
6-Feb-21	Saturday	T1: Prof. A Ojha Tutorial on CNN L6: Dr Santosh Viparthi, Deep CNN Architectures for CV		P5: Implementing a Deep CNN with Transfer Learning
7-Feb-21	Sunday			
		3:00-5:00		5:30-7:00
8-Feb-21	Monday	L7: Prof. H. Fujiyoshi Recent CNN Architectures and Appl to CV		P6: Implementing a CNN model for feature extraction and classification
9-Feb-21	Tuesday		i tova, Acad Sci. Czech Repulic Applications of ML in Medical imaging	P7: ML approaches for medical image processing
10-Feb-21	Wednesday	L9: Dr. Amit Sethi, IIT Bombay Deep Learning for Medical Imaging		P8: Deep CNN for medical applications
11-Feb-21	Thursday	K-Means, Mixture Star	antra Dutta Roy, IIT Delhi Models, EM Algorithm, and uffer-Grimson ubtraction from Videoss 3:00-4:30	L11: Dr P. Guha, IIT Guwahati Commercial Detection from Television Broadcast Videos 4:30-6:00
12-Feb-21	Friday		Santosh Viparthi Change Detection	T2: Problem Solving & Research Orientation Session 6:00-6:15 Valedictory