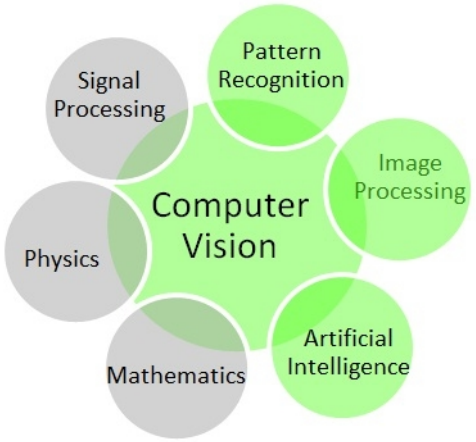
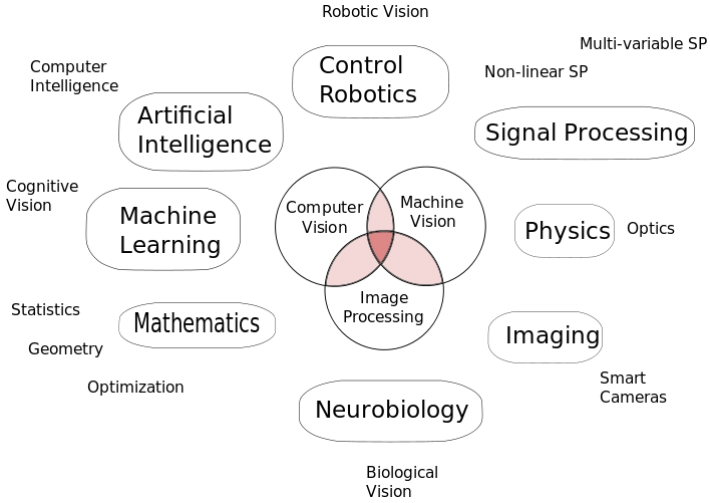
Manarat International University (MIU)

Department of Computer Science and Engineering
Computer Vision & Robotics (CSE-437)
Course outline (Fall-2019)
Instructor: Md Mahedi Hasan

Course Trees





Course Objective

a) To understand the fundamentals of image classification, and object recognition
b) To familiar with the major deep learning based-algorithms involved in computer vision

Syllabus

S.L	Topic	Content	Resources
1	Introduction to Computer Vision	slides	Repository CS231n CSE599G1 Coursera Book
2	Image Classification	slides notes	
3	Loss Functions and Optimization	slides notes-1 notes-2	
4	Convolutional Neural Networks	slides notes	
5	Training Neural Networks	slides notes-1 notes-2	
6	CNN Architectures	slides	
7	Object Detection and Segmentation	slides	
8	Recurrent Neural Networks	slides notes	

Marks Distribution

S.L.	Exam	Mark	Syllabus
1	Midterm	20	1 – 4
2	Final	50	5 - 8
3	Project	-	Cifar-10
4	Class test	-	C-1 (Final Syllabus)
5	Teacher's Review	15	Project + Class Test + Class Attendance
Total		**100**	

For any academic questions ask here
Give your anonymous feedback **here**