

Teacher: **Fardin Akhlaghian Tab - Mohsen Ramezani**

E-mail: m.ramezani@uok.ac.ir

Webpage: eng.uok.ac.ir/mramezani/teaching

References: 1-Digital image processing (Gonzalez et al.) 2-Computer vision (Shapiro et al.).

Projects and Homeworks will be uploaded on the LMS (lms.uok.ac.ir) every Thursday.

Evaluation: 60% final exam+25% projects+15% presentation.

Session No.	week	Topic
Session 1	1	Introduction
Session 2	2	Edge detection
Session 3	2	Hough Algorithm
Session 4	3	Corner detection
Session 5	4	SIFT algorithm
Session 6	4	Segmentation
Session 7	5	Shape analysis
Session 8	6	Video motion analysis
Session 9	6	Principle Component Analysis (PCA)
Session 10	7	Midterm
Session 11	8	Introduction to Deep Learning
Session 12	8	Convolutional Neural Networks
Session 13	9	Deep Learning software
Session 14	10	CNN architectures
Session 15	11	Segmentation and detection by Deep structures
Session 16	11	Deep Learning software
Session 17	12	Generative models (1)
Session 18	13	Generative models (2)
Session 19	13	Visualizing and Understanding
Session 20	14	Deep Learning software
Session 21	15	Paper presentation
Session 22	15	Paper presentation
Session 23	16	Overview