

Question

- a) Construct cooccurrence matrices (second-order joint probabilities) for the image below. Take the directions 0 , $\pi/4$, $\pi/2$, $3\pi/4$ and the distance $|d|=1$ into account:

account:	0	0	1	1
	0	0	1	1
	0	2	2	2
	2	2	3	3

Question

- b) Describe an application area for cooccurrence matrices

Question

- c) Describe the characteristics of the cooccurrence matrices, given an image with high spatial frequencies in the horizontal direction and low frequencies in the vertical direction

Question

- d) Define a cooccurrence matrix feature capable of discriminating low-frequency images from high-frequencies images

Question

- e) Describe a Fourier-based feature for the same task as in d)