

Rebecca Dias

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BE CMPNA

Q3] Grey level histogram.

A)

Gray level	0	1	2	3	4	5	6	7
No of pixels	220	140	50	60	70	170	130	160

Gray level	n^k	$p^k = n^k/n$	cdf	$(L-1)^{th} \text{cdf}$	Round.
0	220	0.22	0.22	1.54	2
1	140	0.14	0.36	2.52	3
2	50	0.05	0.41	2.87	3
3	60	0.06	0.47	3.29	3
4	70	0.07	0.54	3.78	4
5	170	0.17	0.71	4.97	5
6	130	0.13	0.84	5.88	6
7	160	0.16	1.00	7	7.

$$n = 1000$$

Equalized histogram is given as

Gray level	0	1	2	3	4	5	6	7
No of pixels	0	0	220	250	70	170	130	160.