Set >A

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id: 23341130

Section: 02 (CSE428)

(1) 1(E) M. 13x 20 200 7(1) 0.12 11.0 y0.0 20.0 0.05 30 25 20 15 06 10 5 . 3 10 0 1 2 4 1,000 X X X × 3 OI 69.0 1.0.00 51 12

(b)	4C
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NT = 13x 20 = 260

10		005	205	(A)_=	
<b>6</b>	N	PDF	CDF	HE	
0	10	0.00		(0.04XIS) = 0.6≈1	
ı	20	0.08	0.12	1	
2	11	0.04	0.16	2_	
3	13	0.05	0.21	3	
4	20	0.08	0.29	4	
5	13	0.05	0.34	5	
6	ti	0.04	0.38	6	
7	12	0.05	0.43	6	
8	15	0.06	0.49	7	
9	14	0.06	0.55	8	
10	10	0.04	0.59	9	
11	26	@== 0·	0.69	10	
12	28	0.1	0.79	12_	
13	25	0.1	0.87	" 13	
14	4	0.08	0.97	15	
15	9	0.03	1	15	

(1)

Information of significantly dank and bright pixel is lost here:

AHE:

AHE fails where there is not much variation in the gray values.

 $\frac{31}{134} = \frac{31}{134} = \frac{3$ 

92

$$r_1 = 4$$
,  $s_1 = 6$ 
 $s_1 = 6$ 
 $s_1 = 6$ 
 $s_2 = 6$ 
 $s_3 = 6$ 
 $s_4 = 6$ 

Now,  $S = \begin{cases} \infty n & \text{if } 0 \leq n \leq 4 \\ \infty p(n-n) + s, & \text{if } 4 \leq n \leq 11 \end{cases}$ 

n l	۵.
- K	Densey Jens 200 Denvi INT (1)
0	2/3×0 ≈ 2121/2 1,213 5×13
1 of son	1 3×13 1 × 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2 (2)	2×2 ≈ 1
· Dansnu	1 =x3 =2 2 sami zint (11)
Jethogord E	MO(4-4) Ath Sit was worted
Supratuo Eusen	(5-4) + 600 7 21 Laking
6	(b -4) + b ~ 0
7	(7 -4) + 6 ≈ 9 18 21/10 = 3 10 10 10 10 10 10 10 10 10 10 10 10 10 1
SANIAN PU	B ev 1200 ~ 10
· Santage	185 01)
3 N J. 2 V	(9 - 4) +cte = 2+021 1 3 19 mars
and mart dio e	4 (10 - 4) + 6VA ~ 17
41 025 G	2(11-11)+13 = 3
1225	2 (12511) + 13 = = 15
\3	2(13-11) + 13 = 9/5 /10
14	2(14-11) +13 ~ 15
15	2(15-11)+13 ~ 15

\_93\_

a

1) The image has high range gray level values.

This is a Bright image.

on trast. Because the difference between the dankest and broigntest pixel is very low. (Intensity difference).

<u>b</u>

5=10+2

This will increase the gray values of the input image by 2 values. example: 150+2=152.

This will make the image mone broignt and some of the information will be 10st. Because Near 250 it will be 10st. Because to 250.

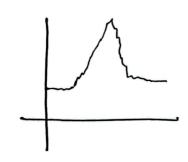
2 (15-11) + 13



Computer can not stone all the colors of a real image. It can only stone some predefined values. While forming are digital image. There is 2 steps:

- 1 Sampling
- @ Suantization. ?

We take some sample from the image (of colors). Then we fix some some range or level to Buantize the values. Like we devide the samples between 0-1, 0-7, 0-255 etc.



Sampling

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Quantization

red image.

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			1	2	3	ent. Ifmod 10
	6	5	Ч	5	100	WE HOURD JUNE WE NOW SOME IN MOSE ( OF COLOR).
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