AbdelRahman Adel	
17012296 CD A2	No.
Sheet 2	Date. / /
(1) Image Filtering	
- mage resoluting	
D 120 120 211 2 2 612	1 -12/0 72 11
(1) 128 x 128 using 8 bits => Size of	linge = 131072 bits
	= 16384 bytes
Gausian Pyrmads	= 16 K Byles
128 × 128 ×8 > 16 KB	
64 X9 4 KB	+ 4/3 × 16 = 21 =
$32 \times 32 \xrightarrow{8} 1 \text{ KB} \rightarrow 21\frac{5}{16}$	K Byles = 1/3 10 = 23
16×16 ×2 0.25 KB → 16	, Kigis
16 x 16 - 0.25 KB	1
8×8 - 16 KB	
Laplacian	
128×128 ×4 3 KB	
×4 2 KB	
64×64 - 1 + +0   1	LO TE KB
32×32 ×4- 2 FB >	10
16×16 ×4 8 KB	
V 0 1 40	34
8x8 -8 > 18 KB	
Laplacion 121 ~ 50.19	5% of saving
Gausian 341	J. J. J. WILL
C (Million )	
The state of the s	

(3) Sharpening the image

Hough Transform

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ij

100

THE

No.

1) J=x Cos D+y Sin O

DE[0,360] XE[I,W]

Range of 0 = 0 → 360 YE [1, H]

28 = Coso U= DP - DP - Coso + Sno

39 = Sin 0

U = Cos O + Sin O

30 = - Sin 0 + Cos 0 Sin 0 = Cos 0

P= I Cos 45 + y Sir 45

P= x + 3 => Max = 1 + W+HI

2 P= (7, 10) , gradient of P = [0.707, 0.707] T

r=20

a=x+r Cos 0 - 0.70x

b = y+ r Sin 0 -> 0.704

a= ++ 20 x 0. Fox = 21.14

Cator = (21.19, 24.14)

b=10+20x0,707 = 24.14

$y = ax^2 + bx$			
J - 4 x + 6 x	+ C		
a) 3.0 spa	Ce	1816.7	V. ALANI
b) Cubic (	uve		
() a chain	18 000		
C) a straig		10 1	Janual Late
d) Cubic (	uve with an	affect	
i i		11	
e) $\frac{dy}{dx} = 2ax$	c+6	1	
up conuld	use the	fangents.	
		V	1
for figuring	y out the	Palar Co	ordinantes
100	/		
TAIR I			
			4470
	4 4 4 4	<u> </u>	
			- M