

Perguam II

Write a program to apply liner filter on an

clar all;

a=imeriad ("dp lab | downloced . Jeg");

a = eglozgiay (a);

a = im 2 double (a);

a - unnoise (a, satt 4 pepper; 002);

I-modfilzca).

montage (£ a, I3; size'; [1,2]; tette ("Nowy image 4 fillered image ");

Joeney

POORNIMA Pargeon 12 time Write a program to apply mon-linear filter (ordered) statistical felter) on an image using median felter to remove salt moiserned pepper moise clear all; Mose all; a = imerad ("dip lab! download! Jeg"), a = ryl 2 gray (a), a= im2datele (a); 9 = Unnioni (9, bath & pepper, 002); filler-size =3; 9 = fellired = medfelt 2(a-morry, Epller-size I); subplot (131); (a) everlance tutte ('Ouginil Image') subplot (132) trill (Nousy Image(Salt & Pepper); imshow (a -mousy); subplot (133); unshow ca-fellered ?.
tulde l'Felleried Image (Melian Feller)! ?; Page No. 2

POORNIMA Perseyram 13 Limite a perogram to apply mon-linear felter (vordered/statistical felter) on an image using minimim felter to seemas salt moise. a = imread ('usil. spg'); a = egb2 greeny (a); a - moisig = immoisé (a, salt/4pppe/0.02); felter-size=3', a-fellired = ordfut 2(a-norsj, 1, twelfelter-siz)), fetter-size=3', subplot (131); (a) wardami title (Original Image'); sulphot (182); subplot (182);

moshow (a nowy);

title ('Noisy Image (Salt Nows)); subplat (133)

unshaue la fellered?'

tible (Fillered Image (Minimum Felio?')'

Page No.22 PORNMA

Pagram 14

tis librate a program to apply non-linear filter (ordered potatistical filter) on or emay using manurin filter to enmone papear now.

a= mound('wall-1Pg');
if wai (a, 3) = = 3

and = orghezquay(a);

a = im2doule (a);

a morsing = unmoise 10, sett pepper, 0.02);

a_ mary (a_mary ==0)=0;

filter - size = 3; = fillieted - ordfilt2(B.- morry frettage-size ^ 2, true (filter - size));

Juney

subpliet (131);

title (Original Image);

subflat 432 3

imetion (a noisy):

title ("Noisy Image (Repper Novi ?);

unitar ca-fullous?

title (Februar Truge (Menumin felt)')

Page No.. 24

PERSON !! Degram 15
White a program to perform gradient boxed
method for edge detection using convolution
mesks mesks. image = immed ('66-189'); gury I mage : ugb2 gury (mage). Lowel X = [-101; -202; -101] Solely=[121,000;-1-2-1]; quadrent X = inifelter (double (gray Image), solul X). quedicit Magnitudi-cuit 8 [255 met 2gra (graduit
Magnitudi-cuit 8 [255 met 2gra (graduit Maynetion))', figure subpliet (131), imshow (unit 8 (quay)), tille (1 graystale I mage " sulphot (132), imshow (quadrint Magnitude) tette (Greadinit Magnetich (Edges)); subject (133), imshouspair (wer unt 8 gray) the ('Overlay');

Page Ne.5...

POORNIMA Donedge detection in maisjuriage. ing = unread ("unll-199"); of size (unia, 3)==3 ing-geray = orglo2græyling); ing - gray = ing; ung-nowing = unincise (uning-gray; goussian, 0,0.00); solvel-edge = edge (ing-norsy; stel); canny-edge = edge (unig - movig , Canny); Sulphot (221) title (-Original Image subfliet (222);)
mehair (mahoir (mig - mory); title ('Noury Image); subject (223). (expo lebel one - pind) evertown tille (Solail Edge Delection) sulphot (224). embhace (Canny Edge) tille (Canny Edge Deletton!); Page No.26

| Poornima |
|---|
| Buogram 19 |
| Write a program to perform evorsion and |
| no no noiteresto lasigoladoram noitales. |
| image using MATLAB. |
| |
| ingle = umread ('Man Jeg?); |
| if size (umage, 3)==3 |
| umage = ugb 2 gray (umåge); |
| end |
| louriary I amoge = mage >128; |
| Se = Store 1 C'duste 1, 5); |
| ervoded Image = imerade (binary Image, 50); |
| delated Image = imdelate (binary Image, 50); |
| 0 8, |
| figure; |
| subplot (1,3,1), unshow (binary Image), title (Vargine Imge) |
| sulphot (1,3,2), unshow (enoded Inge), title ('Erold Inge); |
| subplot (1,3,2), unshow (bridge), title ('bright Inge); subplot (1,3,2), unshow (enoded Inge), title ('Frond Inge); subplot (1,3,3), unshow (detailed Innege), title ('Hilalied Innege) |
| |
| |
| June |
| |
| |
| |
| |
| |
| |
| |
| Page No. 2.3 |

| POORNIMA |
|---|
| Program 18 |
| blitte a program to perform opening and closing muschhological operations on an image using MATLAB? |
| image= imiliad (Man. 1Pg); gray Image = riglo Zgray (image); |
| chered Image - unclose (gray Image, so) closed Image - unclose (gray Image, so); |
| Substat (1,3,12; |
| umbhois (gray Imge); Los title (Dergind Inge'); |
| institut (1,3,2); institut (open ad Inge); talle (- After Opening); |
| subpliet (21, 3, 37; emshau (closed Trongs); |
| tale (Aftrosig); |
| |