	STUDENT'S NAME & hirke Aryan TOTAL MARKS OBTAINED CLASS SUBJECT P.C.V. ROLL NO. 21 bcs JU DATE 3-4 April
	Bilateral Filkring Pswdocode
	The state of the s
1.	Define Input.
in the	alsono a mine the billist dues I
	Image (T)
	Kend Size (d) - diameter of the neighborhood
	around the conterpixed
4	Sigma x (0x) controls the influence of
	intensity similarity
	(00) - controls the influence of spatial proximity.
2.	Thrak over each pixel (i,j) In the image
	Tribialize output pixel intensity (Tresult [i,j] to
	Initialize normalization factor (W) to O.
	The same has a second and the second
3	Herak over neighbouring pixel (p. 2) within the
	Randowindow contendo atrobi, job model
	Calculate Spatial distance (50) between (ij)
harin.	6 (p. a) Henry yeddon od paikort ullakardag
	Calculate intensity difference (0x) between (ij)
	6 ± (p,q). painte villoams abroad
1	Calulate spatial weight (ws) using a Graussian
	foner with Started de righion of siws
	exp. (-062/2"082)
	Calwiah range weight (wr) Using a Crowssian
	function with Standard deviation or with
制度/。	neap((-18182/(21082)))
The and	Combine weighb: we wet to
1001	Opdate Normalizar factor: Wt=wicout
	Accumulate weighted intensity: Tresult [ij] +=
	I (p,q) tw GOID LEAF

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	Sharbourd Filhoung Franciscolo
4	Normalize Output.
15	Chegni sould the
	Tresult [i,j] [= W (divide by the normalizar
	factor).
	hand he mans to the sail town
	Experimenting with ox & sigmas (00)
	and some later and a hardward of the trail of the could be started by the could be started by
	Implement the bilateral filtering function
u _i	with options to set ox and orsing (m)
14-	
2.	Run the function only our limager with
	different combinations of ox and os values
	(cg: low medium high values for each)
A 10	
3	Observe the resulting images Typically:
•	hower or leads to sharper edge prosonta
-30	but may not remove all noise, and all of
•	Higher or temores more broise but can blor
-	
115.	Lower Sigmas affects a Smaller neighborhood
	potentially leading to patchy toolking
• (Higher Sigmas considers neighborhood
ļa .	pronde Smoother Liking
the second	Calaboration of Lucian I down to the control of the
	Compairing with Open CV:
	100 C 1 (100 C) 100 C C 100 C C 100 C C 100 C C C 100 C C C C C C C C C C C C C C C C C C
715	Use Open (V's CV2, bilateral Fiter function
ž.	orgoor image with similar sections for
20	Remer Size or 6 255 as way implemento
	absolute difference between the
- 17 -	Transity value of Corresponding pitchs in
- A - F-1	goor occord I I-265011 a open (Variso It (I inbu
	GOIDLESS

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20.	179.7455
	Sum the absolute differences across all
	pixels toget they total error labs som
	(Tinbuilt - t-result)
	Condusion.
	Analyzing the visual quality orgov
	bilakral filkring resulb with different
K ₁	parameter Sellings
	Compare the error between your implementor
N.	6 Open (V's function Asmall error Indicates
	Similar filtring behaviour.
	Consider the tradecht between noise temoral
	& edge priserration based on your image
	O application requirement.
	to the state of th
ites .	
	GOID LEAF