Scanned with CamScanner

		Stantain fairl
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	37.0	Quiz 2
	1.1	The Hessian as a Measure of Cornerness.
	1.1	when we have eigen values 1, and 12 and they both
)		are large, we can conclude that we are at
)		a corner because E, the margin of error, increases
)		in all direction.
)		the second of the second
1	1.2	How can we detect flat region? If both eigen values
		are small 2, and 2, then we are at a flat
		region. Why? Because E will always be approx.
9		constant en all direction.
Ò		
] 3.	Suppose we have eigen value 2, and 2, the
Ì		difference would be that I will be significantly
Ò	0	bigger in comparison to 2. Therefore it can
7	-	be considered un edge.
	1.2	A definition of H that relies on H is 11 / (11)
		det (H) / trace (H) as you are using
•	and the second	the 2, and 22 to compute and determine H
•		where it is simple math, no squares & square roots
		Like the previous question, you don't have to go
		through all the eigen computations. This is faster to
		compute yet similar to minimum-eigenvalue scoring func.
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1.3	Traverse through each pixel, compute eigen values,
37	using it to find cornerness. As said in the
1	lecture, if two pixels are the same, record
Carla I G	only one. This way you are reducing the
	amount of noise in the image and in a
	way smoothing the image out.
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	v a transfer of the vertical of the experience of the first terms of t
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2.	Scale - Invariant Harris Corners
	and the second of the second second
	When you are lace trying to use Hurris corner
	actector, you are looking for significant Change
	in all directions. Imagine a window wo ground
	some image. Lets inspect how the pixels change
4	enside this emage and compare the difference
	before and after the move to get a sum
	of error. If that error is particularly high.
	we have detected a corner.
	The II At
	The H matrix tells us about the landscape of the
	signal in the local region of the
· · · · · · · · · · · · · · · · · · ·	H matrix is buscially the lineur algebra/ short hand version of $E(u,v) \approx Au^2 + 2Buv$
1 y m 1 4	Show rund version of E(u,v) ~ Au+2Buv
la li libe la la de	Because its 11 2×2 ment in
	Because its a 2×2 matrix, you are looking at
6	The state of the s
A A SHARE	To detect corners we will modify our $\lambda_1 \neq \lambda_2$
and the second s	to we use the det and trace of
parameter young	the 2×2 matrix.
9/2/	