

































Law's texture masks (1)	
L5 E5 S5 R5	$\begin{array}{llllllllllllllllllllllllllllllllllll$
(E5) (causal) gives a center regimed rotal arctage (E5) (gradient) responds to row or col step edges	
• (S5) (LOG) detects spots	
• (R5) (Gabor) detects ripples	
	18









• Autocorrelation function • Autocorrelation function function • Autocorrelation function can detect repetitive paterns of texels • Also defines fineness/coarseness of the texture • Compare the dot product (energy) of non shifted image with a shifted image $\rho(dr, dc) = \sum_{r=0}^{N} \sum_{r=0}^{N} \frac{I[r,c]I(r+dr,c+dc]}{\sum_{r=0}^{N} \sum_{r=0}^{N} \frac{I[r,c]I(r+dr,c+dc]}{I[r,c]}} = \frac{I[r,c]oI_I[r,c]}{I[r,c]oI_I[r,c]}$

- Fine texture \rightarrow function drops off rapidly
- Can drop differently for r and c
- Regular textures → function will have peaks and valleys; peaks can repeat far away from [0, 0]
- Random textures → only peak at [0, 0]; breadth of peak gives the size of the texture





