CAP5415 Computer Vision Spring 2003

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				- ANTIN
σ=0.05	σ=0.1	σ=0.2		
			no smoothing	The effects of smoothing Each row shows smoothing with gaussians of different width; each column shows different realisations of an image of gaussian noise.
			σ=1 pixel	
			σ=2 pixels	

	VAX DE
Classical Operators	
Prewitt's Operator	$\begin{bmatrix} 1 & 0 & -1 \end{bmatrix}$
$ \begin{array}{c} & & & \\ & & & & \\ & & & \\ & & & & $	$\begin{bmatrix} 1 & 0 & -1 \\ 1 & 0 & -1 \\ 1 & 0 & -1 \end{bmatrix}$
Smooth $\longrightarrow \begin{bmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \end{bmatrix} \longrightarrow \begin{bmatrix} 1 \\ -1 \end{bmatrix}$	$\begin{bmatrix} 1 & 1 & 1 \\ 0 & 0 & 0 \\ -1 & -1 & -1 \end{bmatrix}$





## Dagested Reading Chapter 8, David A. Forsyth and Jean Ponce, "Computer Vision: A Modern Approach" Chapter 4, Emanuele Trucco, Alessandro Verri, "Introductory Techniques for 3-D Computer Vision" Chapter 2, Mubarak Shah, "Fundamentals of Computer Vision"