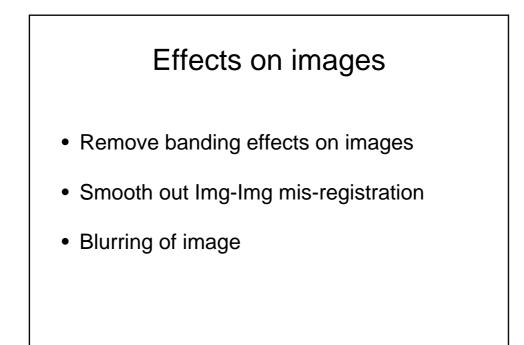
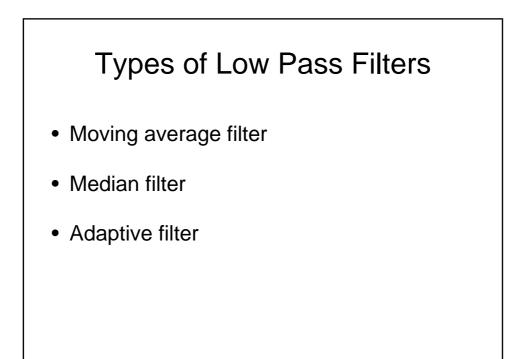




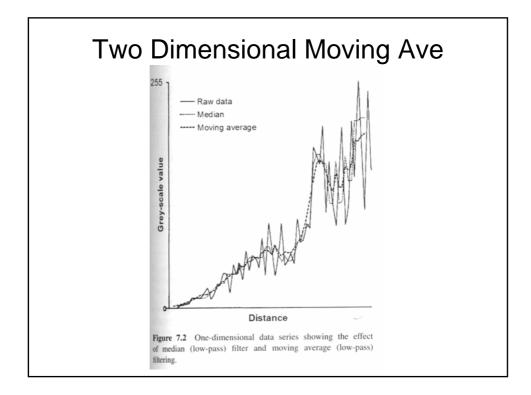
- Remove random noise
- Remove periodic noise
- Reveal a background pattern

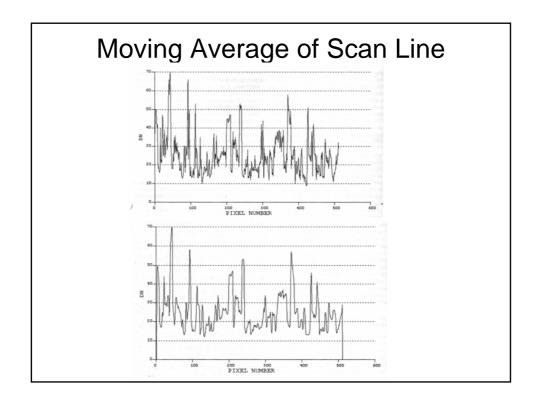


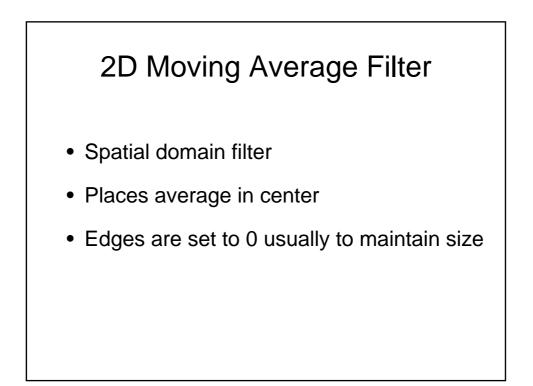


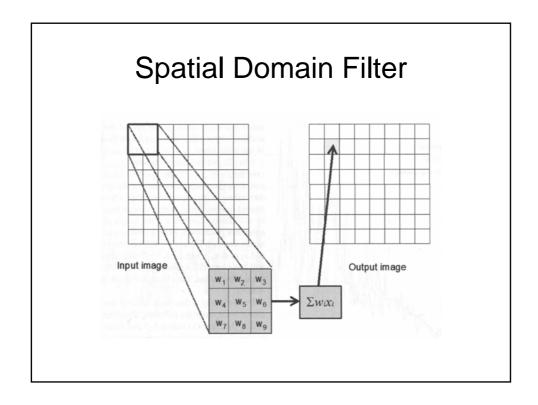
Moving Ave Filter Example

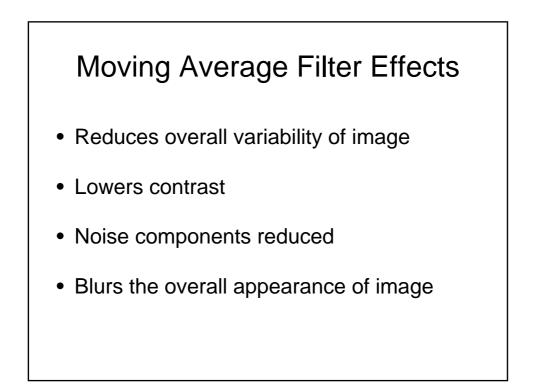
- A single (very short) scan line of an image
- {1,8,3,7,8}
- Moving Ave using interval of 3 (must be odd)
- First number (1+8+3)/3 =4
- Second number (8+3+7)/3=6
- Third number (3+7+8)/3=6
- First and last value set to 0



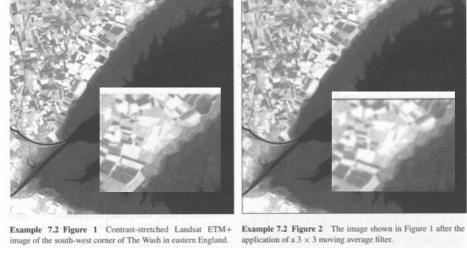


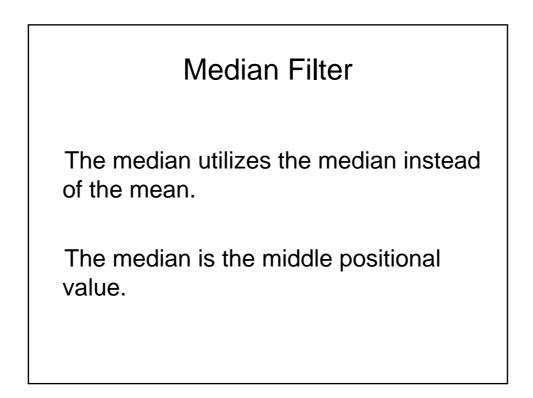






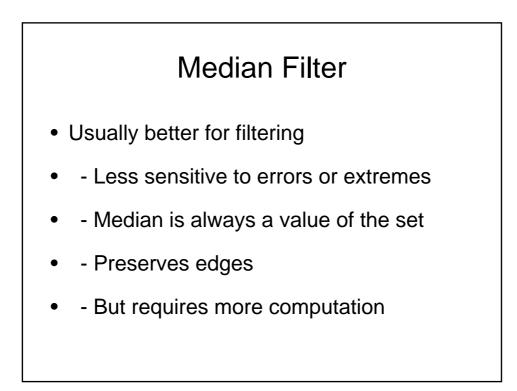
Moving Average images

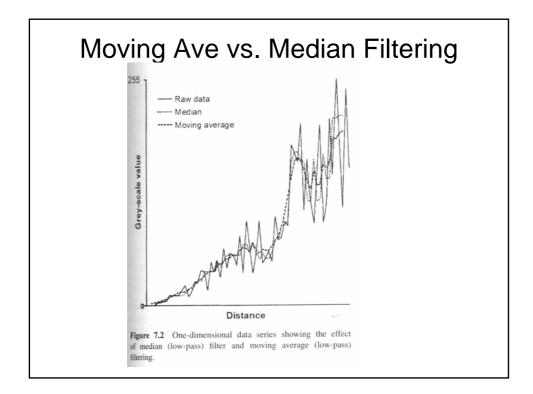


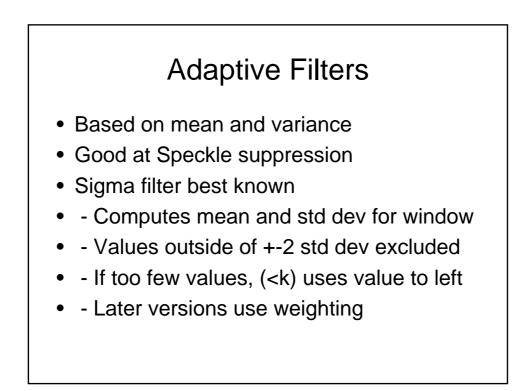


Median Example

- Another very short scan line
- Data set {2,8,4,6,27} interval of 5
- Ranked {2,4,6,8,27}
- Median is 6, central value 4 -> 6







Adaptive Filters

- Improvements to Sigma filtering
 - Chi-square testing
 - Weighting
 - Local order histogram statistics
 - Edge preserving smoothing

