

Scale-space image processing

- Corresponding image features can appear at different scales



- Like shift-invariance, ***scale-invariance*** of image processing algorithms is often desirable.
- Scale-space representation is useful to process an image in a manner that is both shift-invariant and scale-invariant

Scale-space image processing

- Scale-space theory
- Laplacian of Gaussian (LoG) and Difference of Gaussian (DoG)
- Scale-space edge detection
- Scale-space keypoint detection
 - Harris-Laplacian
 - SIFT detector
 - SURF detector