

EECS 207  
Spring 2021

Lecture 14

# Announcements

- No lecture:
  - Tuesday, March 9

# Reading Assignments

- Read sections of Chap. 3 about spatial filtering:
  - 3<sup>rd</sup> Edition:
    - Section 3.4 Fundamentals of Spatial Filtering
    - Section 3.5 Smoothing Spatial Filters
    - Section 3.6 Sharpening Spatial Filters
  - 4<sup>th</sup> Edition:
    - Section 3.4 Fundamentals of Spatial Filtering
    - Section 3.5 Smoothing (Lowpass) Spatial Filters
    - Section 3.6 Sharpening (Highpass) Spatial Filters
    - Section 3.7 Highpass, Bandreject, and Bandpass Filters From Low-Pass Filters

# Reading Assignments

- Finish Chap. 4 (4<sup>th</sup> edition):
  - Section 4.7 The Basics of Filtering in the Frequency Domain
  - Section 4.8 Image Smoothing Using Lowpass Frequency Domain Filters
  - Section 4.9 Image Sharpening Using Highpass Filters
  - Section 4.10 Selective Filtering
  - Section 4.11 The Fast Fourier Transform

Questions?

# Today

- Chap. 4: Filtering in the Frequency Domain.
  - Properties of the 2D DFT.
  - Basics of filtering in the frequency domain.