Overview

Image Feature Extraction Techniques

FACULTY OF MATHEMATICS
AND COMPUTER SCIENCE
University of Lodz

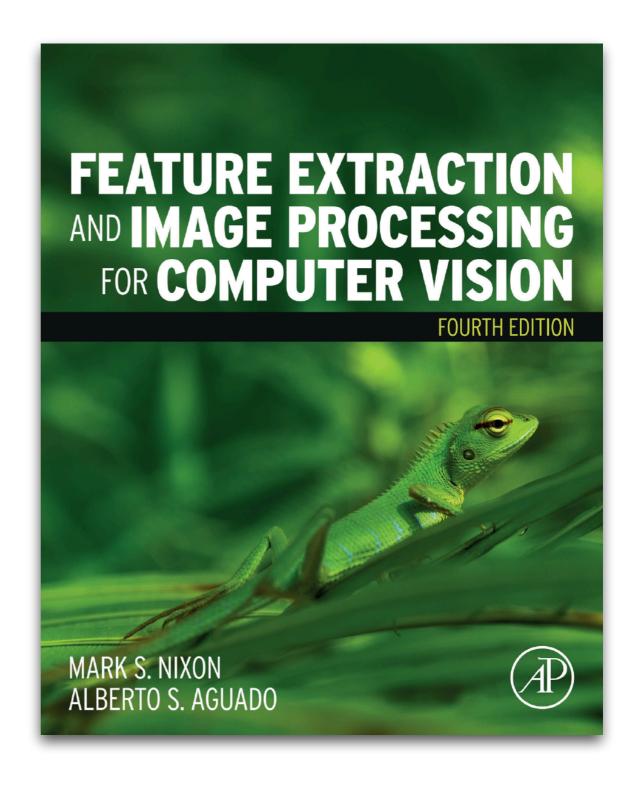
Lecture goals

Learn and UNDERSTAND

- the basics of vision and color representation;
- the basics of image description (including in the frequency domain);
- basic image transformations (including uses morphological functions, creates histograms, creates and applies various filters);
- basic methods of extracting features (including edge detection, curvature, Hough transform, FAST, ORB, SIFT, SURF, BRIEF).

Feature Extraction and Image Processing for Computer Vision by Mark S. Nixon, Alberto S. Aguado

Academic Press (Elsevier), 2020 (4th edition)



A Beginner's Guide to Image Shape Feature Extraction Techniques by Jyotismita Chaki, Nilanjan Dey

CRC Press, June 30, 2021

CRC FOCUS SERIES Intelligent Signal Processing and Data Analysis A BEGINNER'S GUIDE TO **IMAGE SHAPE FEATURE EXTRACTION TECHNIQUES** Jyotismita Chaki Nilanjan Dey

The Image Processing Handbook

by John C. Russ, F. Brent Neal

August 2, 2017 (7th Edition)

