

# Computer Vision

## Important Information:

course webpage: <http://cvg.unibe.ch/teaching>

textbooks: <http://computervisionmodels.com>

Vision Object Recognition

An invitation to 3-D vision: From images to geometric models

course requirements: 2 Assignments (60/100 points for pass)

Tutorials (weekly): aim is exam preparation

Final Mark: 70% Exam and 30% Assignments

First Assignment due November 12 (Image inpainting and blending)

Second Assignment due December 10 (3D reconstruction)

# Chapter 1

## The goal of computer vision

- To extract "meaning" from pixels
  - (a) semantic information
  - (b) geometric information
- Vision is useful
  - (a) automatization of large scale processing
  - (b) much higher flow number (faster)
- Vision is interesting
- **BEWARE:** Human vision is easy, but computer vision is difficult
  - (a) Half of primate cerebral cortex is devoted to visual processing
  - (b) Achieving human-level perception is probably "AI-complete"