

# EE368/CS232 Organisation

## ■ Lectures

- MWF 9:30 am – 10:45 am in Gates B03 for 7 weeks
- Attendance highly recommended.
- Lecture videos on OpenEdX: view after class, or before, or not at all.

## ■ Problem session: Fr 4.15-5.05 pm in Gates B01 for 7 weeks

## ■ Office hours

- Bernd Girod: Fr 11 am - 12pm (after class), Packard 373
- Gordon Wetzstein: Time TBA, Packard 236
- Huizong Chen: Mo 4-6 pm, Packard 339
- Jean-Baptiste Boin, Nicolas Jimenez (Android): TBA

## ■ Class Piazza page:

*<https://piazza.com/stanford/spring2015/ee368>*

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- Weekly homework assignments
  - Handed out Mondays, correspond to the lectures of that particular week
  - Require computer + Matlab
  - Discussions among students encouraged, however, individual solution must be submitted.
  - Due 9 days later (Wednesday 9:30 am).
  - Online quiz questions (on OpenEdx) count against homework grade.
- Homework submission:
  - Electronic online submission via Scoryst.
  - Enrollment link: <https://scoryst.com/enroll/rq183Ub0qT/>
- First assignment handed out on March 30 (first day of class)
- Late Midterm
  - 24-hour take-home exam
  - 3 slots, **May 20-23**

# EE368/CS232 Final Project

- Individual or group project, plan for about 50-60 hours per person
- Develop, implement and test/demonstrate an image processing algorithm
- Project proposal due: **April 29, 11:59 p.m.**
- Project presentation: Poster session, **June 3, 4-6:30 p.m.**
- Remote SCPD students can alternatively submit a narrated video presentation
- Submission of written report and source code:  
**June 5, 11:59 p.m.**

# EE368/CS232 Grading

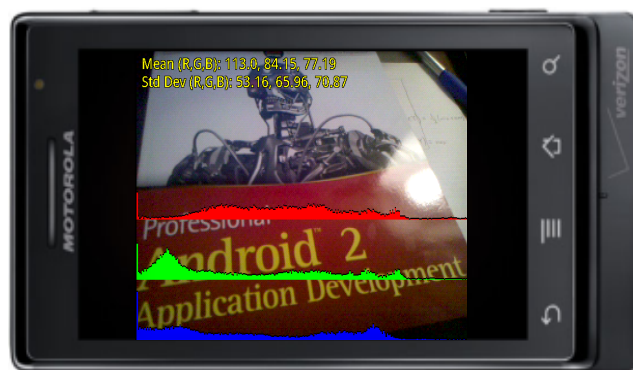
- Homeworks: 20%
- Midterm: 30%
- Final project: 50%
- No final exam.

# SCIEN Laboratory


- SCIEN = Stanford Center for Image Systems Engineering (<http://scien.stanford.edu>)
- Exclusively a teaching laboratory
- Location: Packard room 021
- 20 Linux PCs, scanners, printers etc.
  - Matlab with Image Processing Toolbox
  - Android development environment
- Access:
  - Door combination for lab entry will be provided by TA
  - Account on SCIEN machines will be provided to all enrolled in class

# Mobile image processing (optional)

- 40 Motorola DROID cameraphones available for class projects (must be returned after, sorry)
- Lectures on Android image processing online
- Android development environment on your own computer or in SCIEN lab
- Programming in Java (C++ for OpenCV)



# Reading

- Slides available as pdf files on the class website (click on  for source code and data)  
*<http://www.stanford.edu/class/ee368/handouts.html>*
- Popular text books
  - William K. Pratt, „Introduction to Digital Image Processing,“ CRC Press, 2013, \$100.
  - R. C. Gonzalez, R. E. Woods, „Digital Image Processing,“ **3rd edition**, Prentice-Hall, 2008, \$186.– (\$147 on Amazon).
  - A. K. Jain, „Fundamentals of Digital Image Processing,“ Prentice-Hall, Addison-Wesley, 1989, \$186.– (\$141 on Amazon).
- Software-centric books
  - R. C. Gonzalez, R. E. Woods, S. L. Eddins, „Digital Image Processing using Matlab,“ **2nd edition**, Pearson-Prentice-Hall, 2009, ca. \$ 140.--.
  - G. Bradski, A. Kaehler, „Learning OpenCV,“ O‘Reilly Media, 2008, \$ 50.00.
- Comprehensive state-of-the-art
  - AI Bovik (ed.), „The Essential Guide to Image Processing,“ Academic Press, 2009, \$ 92.95.
- Journals/Conference Proceedings
  - IEEE Transactions on Image Processing
  - IEEE International Conference on Image Processing (ICIP)
  - IEEE Computer Vision and Pattern Recognition (CVPR)