

SCHOOL OF ELECTRICAL AND COMPUTER ENGINEERING  
GEORGIA INSTITUTE OF TECHNOLOGY  
ECE 6258: IMAGE PROCESSING, FALL 2006

OBJECTIVE

The goal of the course is to provide a comprehensive coverage of principles of image processing, including leading algorithms for various applications.

INSTRUCTOR

Prof. Yucel Altunbasak

Office: Centergy-5238

Phone: 404 385 1341

E-mail: [yucel@ece.gatech.edu](mailto:yucel@ece.gatech.edu) (preferred method of communication)

Office hours: Thursday before class time (3:20PM-4:20PM) in the Bunger Henry office (3<sup>rd</sup> floor)

TIME & LOCATION

TR, 4:35-05:55PM

C457 Van Leer-Elec Eng

WEBSITE

<http://users.ece.gatech.edu/yucel/6258.html>

TEXTBOOK

- R.C. Gonzalez , R.E. Woods, *Digital Image Processing*, 2nd edition, Prentice-Hall, 2002.
- R.C. Gonzalez, R.E. Woods, and S.L. Eddins, *Digital Image Processing using Matlab*, Prentice-Hall, 2004.
- John Woods, *MULTIDIMENSIONAL SIGNAL, IMAGE, AND VIDEO PROCESSING AND CODING*, Elsevier, 2006
- A.K. Jain, *Fundamentals of Digital Image Processing*, Prentice-Hall, 1989.
- J.S. Lim, *Two-dimensional Signal and Image Processing*, Prentice-Hall, 1990.

HONOR CODE

Please uphold the academic honor code (see <http://www.gatech.edu/honor/>). Violations will be reported to the office of Vice-President for Student Services.

## GRADING

	Percentage	
Midterm:	25	%
Final:	25	%
Homework:	25/0	%
Project:	25	%
Book help:	25	%
Volunteers in ICIP	2.5	% per half day

## HOMEWORK

There will be (approximately) weekly homework assignments.

## PROJECTS

Towards the middle of the semester, projects will be assigned. You can work in pairs, if you'd like (two people max).

## EXPECTATIONS

Without prior courses in DSP, Linear Algebra, and Probability, you may have difficulty in some of the material.