Course Syllabus

Term: Spring 2007
Course Title: Introduction to Digital Image Processing
Instructor:
   Dr. Ming-Sui Lee
   Department of Computer Science and Information Engineering
   CSIE Building, Room #520
   National Taiwan University
   E-mail: msllee@csie.ntu.edu.tw
   Website: www.csie.ntu.edu.tw/~mslee
   Phone: (02) 3366-4888 Ext 520
Lecture: 9:10 a.m.~ 12:10 p.m. Thursday
Website: www.csie.ntu.edu.tw/~dip/
Instructor Office Hours:
   10:00 a.m. ~ 12:00 p.m., Wednesday or by appointment
   (For homework-related problems, please go directly to the TA.)
Teaching Assistant:
   陳映睿  CSIE Building, Room 306
   E-mail: dip@csie.ntu.edu.tw

Textbook:
Reference Books:
   4. Rafael C. Gonzalez and Richard E. Woods: Digital Image Processing, Addison-
      Wesley, 1992

Homework:
   There will be 4 projects. All require computer programming. No late homework
   will be accepted.

Grading Policy:
   1. Homework: 40%
   2. Quiz: 15%
   3. Midterm Exam: 20%
   4. Final Exam: 25%

Tentative Schedule:
   I. Introduction and Digital Image Fundamentals
   II. Image Enhancement in Spatial Domain.
III. Edge Detection.
IV  Geometrical Modification.
V  Morphological Processing.
VI  Digital Halftoning and Inverse Halftoning.
VII Texture Analysis.
VIII Document Processing.
IX  Image Sampling and Transforms.
X  Image Enhancement in Frequency Domain.
XI  Color Image Processing.
XII Image Compression