Course Title: Introduction to Image Processing
Credit: 3 (CS4520 00, Spring/2003)
Classes: 10:10-12:00 Wednesday, 1:10-2:00 Friday at EECS 224
Tel/E-mail: (03) 573-1078, cchen@cs.nthu.edu.tw at EECS Rm 539
Prerequisites: Linear Algebra, Probability Theory, Engineering Math., Data Structure, Operating Systems, [C, Matlab]

Contents:
1. Introduction
2. Fundamentals of Digital Image Processing
3. Image Transform
4. Image Enhancement and Filtering
5. Image Segmentation and Edge Detection
6. Color Image Processing
7. Image Data Compression*
8. Image Pattern Recognition
9. Steganography and Watermarking
10. Demonstrations and Discussions

Textbook:

References:
(1) K. Sayood, Introduction to Data Compression (2000)
(2) D. Hanselman and B. Littlefield, Mastering MatLab 5 (1998)
(3) Assigned Readings from Conference Proceedings, Journals, Magazines

Grading: Assignments (50%), Exam(s) (30%), Presentation (20%).