Class time: TR 12:05 - 1:25 pm

Lecture room: Klaus 2447

Instructor: Dr. Oskar Skrinjar

Office: 4105 BME
        404/385-2953
        oskar.skrinjar@bme.gatech.edu

Office hours: By appointment

Prerequisites: There are no formal prerequisites. However, it is assumed that the student has been exposed to image processing through either a course or a project, and that the student is skillful in Matlab.

Credits: 3 Hours

Objectives: To study general, non-application specific methods used in medical image processing of two- and three-dimensional medical images. Examined in detail will be the concepts, underlying mathematical foundation, and algorithms associated with medical image processing, including registration and segmentation of images.

Text: There is no required textbook. The following references will be used:


Grading:

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<tr>
<td>Test 1</td>
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<td>M1 (Matlab problem 1)</td>
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<td>Test 2</td>
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<td>M2 (Matlab problem 2)</td>
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<td>Test 3</td>
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<td>M3 (Matlab problem 3)</td>
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<td>Final Exam (8:00-10:50am on 05/05/06)</td>
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The exams are cumulative. Test/exam grades become final one week after they are returned to the students. Matlab problems are take-home exam problems and students should NOT work together on them.
Tentative grading scale:

- A (cs >= 90), B (80 <= cs < 90), C (70 <= cs < 80), D (60 <= cs < 70),
- F (cs < 60), where cs is the combined score [%].

Exams: The exams (tests and final exam) will be open book/notes in-class exams. In NO CASE will a make-up exam be given unless the student obtained approval from the instructor PRIOR to the exam.

Late Policy: No late Matlab problems will be accepted for grading.

Homeworks: A number of practice problems with theoretical questions and Matlab problems will be made available throughout the semester. These problems will not be graded. Solutions will be provided and the students are encouraged to contact the instructor in case they encounter difficulties in solving the problems or understanding solutions.

Website: T-Square will be utilized to post grades ([http://t-square.gatech.edu](http://t-square.gatech.edu)). Various resources, including lecture material, practice problems with solutions, and old exams will be posted at [http://www.bme.gatech.edu/groups/biml/teaching/BMED6780_Spring_2009](http://www.bme.gatech.edu/groups/biml/teaching/BMED6780_Spring_2009).

Honesty: In fairness to the honest majority, ALL incidents of academic misconduct will be reported to the Office of the Dean of Students. You are expected to report to the instructor all incidents of academic misconduct you observe in this class. Visit the Georgia Tech Academic Honor Code home page at [http://www.honor.gatech.edu](http://www.honor.gatech.edu).

Assistance: Any student who feels that he/she may need a classroom or testing accommodation for any sort of disability is encouraged to make an appointment with the instructor.

Attendance: You are responsible for all topics, discussions, handouts, and announcements made in class.

Disclaimer: Errors in any edition/version of the reference books, posted practice problems and their solutions, posted old exams and their solutions or any other material that is allowed on exams cannot be used as an excuse to obtain credit on exams. The fact that different editions/versions of the reference books do not cover identical material cannot be used as an excuse to obtain credit on exams.