CSCE 6370.001 – Multimedia Database Systems (Spring 2015)

Instructor: Dr. JungHwan Oh,
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Class Web: http://www.cse.unt.edu/~jhoh/

Pre-Requisites: CSCE4350 or working knowledge of DBMSs.

Office Hours: TuTh 12:30 - 02:30 pm, NTRP F274

Class Time and Room: TuTh 02:30 - 03:50 pm, NTDP B157

Contents: This course is dealing with the issues in Multimedia (Audio, Image and Video), Multimedia Compression, Multimedia Operating Systems, Multimedia Indexing, Querying, and Retrieving, which have been enormously developed recently, and are playing important roles in the areas of Business, Entertainment, Medicine and Education. The goal of this course is to give in-depth understandings to media themselves with emphases on other issues related DBMS, and operating systems. The following topics will be discussed in this course:

- Types and Formats for Analog and Digital Audio, Image and Video.
- Multimedia Features
- Content-based Multimedia Retrieval
- Multimedia Operating Systems.
- Search Structures, Principal Components Analysis, and Data Clustering
- Indexing Techniques for Multimedia Databases.
- Image and Video Query and Retrieval.
- Content-based Video Modeling.

Grading:

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<tr>
<th>Grade</th>
<th>Percentage</th>
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<tr>
<td>Mid-term Exam</td>
<td>25 %</td>
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<tr>
<td>Final Exam</td>
<td>30 %</td>
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<td>Reading Assignments</td>
<td>09 %</td>
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<td>Attendance</td>
<td>10 %</td>
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<tr>
<td>Term Project Implementation Plan</td>
<td>3 %</td>
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<td>Term Project Implementation &amp; Write-up</td>
<td>18 %</td>
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<tr>
<td>Term Project Presentation</td>
<td>5 %</td>
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Reading Assignments: There will be some reading assignments. Read the given materials, and submit summary report by due date. No late submission accepted. More details can be found in the class web page.

Term Project & Presentation: Your team (up to 2 students) will implement a proposed method (approach, or technique) in a paper you select. First, your team needs to select a paper, and submit an implementation plan. Then, your team implement it, and submit a source code and a write-up on program design, any threshold value and parameter value, how to compile and run, limitations, and references. Finally, your team will present what has been done for the term project in the class using Power Point slides. No late submission accepted. More details can be found in the class web page.

Policy:
1. If a student is absent for more than three classes (other than medical reasons), he/she will be dropped from the course.
2. No make up exams (before and/or after) will be given. Equitable arrangements will be made for those with a university-approved excuse.
3. The penalty for cheating will be dismissal from the course with failure. No incomplete grade will be given.
4. No grading question by email.
5. No early exams.

"The Student Evaluation of Teaching Effectiveness (SETE) is a requirement for all organized classes at UNT. This short survey will be made available to you at the end of the semester, providing you a chance to comment on how this class is taught. I am very interested in the feedback I get from students, as I work to continually improve my teaching. I consider the SETE to be an important part of your participation in this class."

Disabilities Accommodation: The University of North Texas complies with Section 504 of the 1973 Rehabilitation Act and with the Americans with Disabilities Act of 1990. The University of North Texas provides academic adjustments and auxiliary aids to individuals with disabilities, as defined under the law. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring accommodation, please see the instructor and/or contact the Office of Disability Accommodation at 940-565-4323 during the first week of class.