

CMPN206: Multimedia



Lecture 0: Introduction

Mohamed Alaa El-Dien Aly
Computer Engineering Department
Cairo University
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Agenda

- What is Multimedia?
- Topics
- Course Logistics

What is Multimedia?

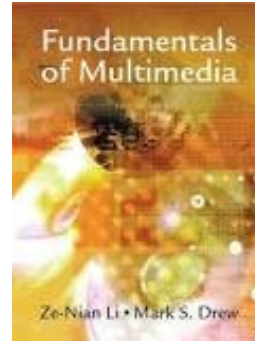
- Multimedia includes multiple media, especially text, images, audio, and video
- Applications include:
 - Videoconferencing
 - Movies
 - Games
 - Augmented Reality
 - Virtual Reality
 - ...
- We use it everyday everywhere

Topics

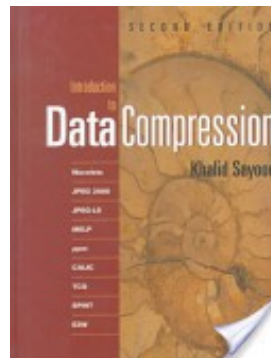
- Multimedia
- Representation
- Entropy and Information
- Lossless Compression
- Lossy Compression
- Examples for compression algorithms/standards of text, images, audio, and video

Textbook

- Fundamentals of Multimedia, Li and Drew. [**FM**]



- Introduction to Data Compression, Sayood. [**IDC**]



Course

- Homeworks/Labs
 - Programming assignments in C++ under Linux
 - Labs in Matlab
 - 20-25 points
- Project
 - 15-20 points
- Midterm: 20 points
- Final: 40 points

Skills

- C++ development under Linux
- Matlab
- Math
- Information Theory

Questions?