

Multimedia Systems and Applications

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Course Outline

- **Introduction**
- **Graphics and Image Data Representation**
- **Color in Image and Video**
- **Fundamental Concepts in Video**
- **Basics of Digital Audio**
- **Lossless Compression Algorithms**
- **Lossy Compression Algorithms**

Course Outline

- **Image Compression Standards**
- **Basic Video Compression Techniques**
- **MPEG Video Coding I**
- **Basic Audio Compression Techniques**
- **MPEG Audio Compressions**
- **Natural Language Processing**

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Textbook:

Fundamentals of Multimedia

– Ze-Nian Li and Mark S. Drew (開發)

Grading:

- Project (40%)
- Midterm Exam (25%)
- Final Exam (25%)
- Presence (10%)

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