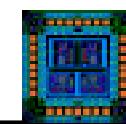


# Digital Video Technology

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## Outline

- Video Basics
- Video Compression Fundamentals
  - compression for multimedia and video applications
- Compression Algorithms
  - Lossless compression & Entropy
  - Lossy compression & rate-distortion theory
- Standard Bodies:
  - ISO: SC29WG01 (JPEG, JBIG), SC29WG11(MPEG)
  - ITU-T: H.261, H.263, H.263+
- JPEG Standard
- MPEG Standards
- H26x Standards
- HDTV



# Requests

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## ■ Reference Books

- 1. "Image and Video Compression Standards"
  - V. Bhaskaran & K. Konstantinides
  - Kluwer Academic Pub.
- 2. "Digital Video:An introduction to MPEG-2"
  - B.G. Haskell & A. Puri & A.N. Netravali
  - Kluwer Academic Pub
- 3. Standard Documents
  - JPEG, H261, MPEG2, H263, MPEG4
- 4. "Digital Video Processing"
  - A.M. Tekalp, Prentice-Hall (新月)

## ■ Homeworks, Examinations & Term report

- to be announced on web

## ■ Grading

- participation and above, percentage to be announced on web

