

EE 565: Video Communications

University at Buffalo Spring 2007

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Class Hours: Tuesday and Thursday, 9:30-10:50 at 14 Knox

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TA Office Hours: Friday 1:00-3:00 at 217A Bonner

Texts: K. N. Ngan, C. W. Yap, K. T. Tan, "Video Coding for
Wireless Communication Systems", Marcel Dekker, 2001.

Y. Wang, J. Ostermann, Y.-Q. Zhang, "Video Processing and
Communications", Prentice Hall, 2002.

Prerequisites: Basic Digital Signal Processing, Digital Communications and
Probability.

Course Web Site: <http://www.eng.buffalo.edu/Courses/ee565>

Evaluation: Homework: 100%

Course Outline

Image and Video Source Coding. Discrete Cosine Transform- and Wavelet-based coding. JPEG, MPEG, H.263 and H.264 compression standards. Error Concealment and Error Resilience Techniques. Channel Coding. Radio Channel Modeling.