

# New Mexico State University Klipsch School of Electrical & Computer Engineering

Dr. Lina Karam  
Dept. of Electrical Engineering  
Arizona State University

## Wyner-Ziv Based Low-Complexity Distributed Video Encoding

### Abstract

This talk starts with an introduction to the newly emerging area of Distributed Video Coding (DVC), also known as Wyner-Ziv Video Coding followed by the description of two novel adaptive DVC systems, BLAST-DVC and AQT-DVC. Coding results and comparisons with existing DVC schemes and with H.264 interframe coding are presented to illustrate the performance of the proposed systems.

Lina J. Karam received her bachelor in engineering from the American University of Beirut in 1989, and the M.S. and Ph.D. degrees in Electrical Engineering from the Georgia Institute of Technology in 1992 and 1995, respectively. She is currently an associate professor in the department of Electrical Engineering at Arizona State University. She is also the director of the Image, Video, and Usability (IVU) and the Real-Time Embedded Signal Processing (RESP) Labs in the Department of Electrical Engineering at ASU. Her research interests include image and video processing, compression, and transmission, human visual perception, visual quality assessment, digital filter design, and medical imaging.

**Date:** November 20, 2008

**Time:** 4:00 pm

**Location:** Thomas & Brown Hall 104

Refreshments served after the talk

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