COT 6930
Video and Image Processing in Multimedia Systems
(Video Processing)

Instructor: Borko Furht
Office: CSE 422, Office hours: WF 10:00-12:00

Prerequisite: Programming in C or C++ and permission of instructor


Course Outline:

1. Introduction to multimedia
2. Storage requirements for multimedia applications
3. Image concepts and structures
4. Classification of compression techniques
5. Image and video compression techniques and standards
6. Content-based image retrieval techniques
7. Content-based video indexing and retrieval techniques
8. Video scene analysis and video segmentation
9. Video processing using compressed data
10. Case study in video parsing: television news

Textbook:

- Articles and journal papers.

Grading format:

1. Understanding research papers and oral presentation 20%
2. Project and presentation 40%
3. Test 40%
TOTAL 100%