COT 6930 Emerging Multimedia Technologies

Credits: 3 credits

Text book, title, author, and year: Class Notes. Copies of Power-point presentations

Reference materials: Research papers (to be given in the class)

Specific course information


Prerequisites: COP 4610 Operating Systems

Specific goals for the course: To provide an in-depth survey of the state-of-the-art in multimedia system design and applications. The student shall learn the innovative techniques and standards for image and video compression (such as JPEG and MPEG), multimedia networking and communications, multimedia security and mining, and operating system support for multimedia.

Brief list of topics to be covered:

1. Characteristics of multimedia systems
2. Image compression techniques and standards
3. Video compression techniques and standards
4. Motion estimation algorithms
5. Image and video indexing and retrieval
6. Multimedia security and mining
7. Multimedia networks and communications
8. Multimedia operating systems
9. Emerging multimedia technologies
10. Mobile multimedia