

CNT 6515 Mobile Multimedia

Credits: 3 credits

Textbook, title, author, and year: Not Required

Reference materials:

1. Emerging Wireless Multimedia: Services and Technologies by Apostolis Salkintzis (Editor), Nikos Passas (Editor). Wiley. August 2005. ISBN: 0-470-02149-7
2. A selection of research papers will be provided

Specific course information

Catalog description:

This is a graduate level course on Mobile Multimedia. The course will cover technologies, tools, and standards for multimedia services and issues in delivering Multimedia to mobile devices.

Prerequisites:

COP 3530 - Data Struct/Algorithm Analysis

Specific goals for the course:

This course is intended to introduce the state of the art in the next generation of multimedia services targeting mobile devices. The course will cover the key coding and communication standards for multimedia services over wireless networks. The course will provide a background and experience in the area of mobile multimedia relevant to the industry needs today as well as the challenges and future developments in the field.

Brief list of topics to be covered:

1. Introduction to Wireless Multimedia
2. Video compression – H.264
3. Multimedia content representation
4. Content Adaptation
5. Adaptive Video Delivery Over HTTP
6. Video Streaming
7. Connected Devices and Ambient Intelligence
8. Multimedia Broadcast Multicast Services (MBMS)
9. Multimedia Personal Area Networks