

INSTITUTE OF TECHNOLOGY OF CAMBODIA
DEPARTMENT OF INFORMATION AND COMMUNICATION
ENGINEERING

I5-GIC (B)

Image Processing

Discussion04

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1. Multimedia systems involve more than simple addition of new data types.
 - it integrates a wide range of symbol modes simultaneously into a coherent framework.
 - the framework is usually denoted as a multimedia system.
2. Multimedia is combining or involving several academic disciplines or professional specializations in an approach to a topic or problem. Or we can say that “multimedia is multidisciplinary”.
3. Explain how to track and recognize an object?
 - Object tracking: track some parts of an object, animal, or human or some parts of a whole image: Face, eye, ear, nose, etc.
 - Object recognition: recognize a whole object, animal, or human: Car, cat, toy, human, etc.
4. There are different issues when we transmit video and audio through packet network:
 - Quality of Service (QoS): Capability of a network provides bad service.
 - Synchronization: Coordination of events do not operate the same time.
 - Error and congestion control: When a network node is carrying more data than it can handle, it will reduce QoS. It can cause collisions.
 - Session setup and bookkeeping: Some service features are missing.
5. Multimedia database and indexing is important because:
 - Multimedia database has to deal with large media files.
 - Multimedia data needs new data structures, indexing and searching methods.
 - Content based multimedia retrieval is still an on-going research topic.