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Assignment Discussion Lesson 4

1) What is multimedia system?

2) Multimedia is multidisciplinary. Why?

3) Explain how to track and recognize an object?

4) What issues or problems are there when we transmit video and audio through packet network?

5) Why index is important in multimedia database?

Answers

1). A multimedia system is a system that combines or involves a simpler addition of new data types such as text with graphics, animation, audio, video, and virtual reality.

2). Multimedia is multidisciplinary because it combines or involves several academic disciplines or professional specializations in an approach to a topic or problem.

3). Explain how to track and recognize an object:

- To track an object means to track some parts of an object like a human, animal, or some part of the whole image. Ex: face, eye, nose, hand, etc.

- To recognize an object means to recognize a whole object like a human, or animal. Ex: car, cat, toy, etc.

4). The issues or the problems when we transmit video and audio through a packet network include some different problems such as:

- Quality of Service (QoS): A low bandwidth network may cause some delay, effect real-time communication, and packet loss.

- Synchronization: The coordination of events doesn't operate at the same time.

- Error and congestion control: An overloaded network will cause bad quality service.

- Session setup and book keeping: Some service features are missing.

5). Index is important in multimedia databases because of some reasons:

- Multimedia database has to deal with large media files.

- Multimedia data needs new data structures, indexing, and searching methods.

- Content-based multimedia retrieval is currently a work in progress.

- Can extract all information from a database.