

# Multimedia authoring, development environments, and digital video editing.

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**Multimedia** systems integrate text, audio, video, graphics, and other media and allow them to be utilized in a combined and interactive manner. Using this exciting and rapidly developing technology, **multimedia** applications can provide extensive benefits in a variety of arenas, including research, **education**, medicine, and commerce. While there are many commercial **multimedia** development packages, the easy and fast creation of a useful, full-featured **multimedia** document is not yet a straightforward task. This paper addresses issues in the development of **multimedia** documents, ranging from user-interface tools that manipulate **multimedia** documents to **multimedia** communication technologies such as compression, digital video editing and information retrieval. It outlines the basic steps in the **multimedia** authoring process and some of the requirements that need to be met by **multimedia** development environments. It also presents the role of video, an essential component of **multimedia** systems and the role of programming in digital video editing. A model is described for remote access of distributed video. The paper concludes with a discussion of future research directions and new uses of **multimedia** documents.

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