Software for web-based indexing and editing of compressed video files without decoding

Technology #ms97-04-17b

This technology is a web-based software for searching and editing compressed video files. Working directly with compressed files eliminates the need to decompress, decode, and view an entire video stream during traditional video processing. With content-based indexing and searching, this software is able to identify different types of video visual features, including object motion and production effects. The editing capabilities also allow manipulation of various video elements. Taken together, this technology provides a method for managing and processing the increasing volume of video content on the internet.

Efficient and less time consuming video editing and content identification

Video processing with compressed files is more efficient than traditional processing. Compressed videos have smaller file sizes, taking up less time and storage capacity for content identification and editing. Also, direct editing of compressed videos removes decompression and recompression steps, preserving video quality that is usually lost in this process. As a web-based platform, this technology can also be easily made accessible to many users.

For MPEG video files, this technology improves editing speed by 60 times and retains 3-4 dB in quality.

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Applications:

- Video content identification and tagging
- Content-based video indexing and search engine
- Web-based or cloud-based video editing and processing
- Online video content management

Advantages:

- Index, search, process and edit compressed video files directly without decoding
- Reduce processing time for video content identification and editing
- Decrease storage requirements for video processing
- Maintain video quality during video processing
- Access and manipulate video over the internet quickly and efficiently

**Patent information:**


Tech Ventures Reference: IR MS97/04/17b

**Related Publications:**


**Inventors**

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