Video Acquisition and Distribution Over Wireless Networks

The ability to access information at ones' convenience is a desired feature in any information disseminating system. Television is a popular audio-visual information delivery method. However, no known system or method provides real-time retrieval from disk. Therefore, a need exists for a technique and procedure for real-time retrieval of content from disk and streaming the content to the clients.

Benefits:

- More general and flexible than commercial disk-based VCRs
- Supports wireless video delivery to multiple users simultaneously
- On-demand playback and keyword based query for access

The technology is able to capture television programs, compress them in real-time, store them inside a database server, and distribute them over wireless networks. Compared with the commercial disk based VCRs, such as TiVo®, this system provides support for real time video broadcast on wireless networks to end users' desktop machines using off-the-shelf video players such as Windows® Media Player.

The system also includes support for on-demand playback of previously recorded video streams and keyword-based query to access them and reliable transport of video sequences over multi-hop wireless networks that are acquired through video cameras and compression hardware.

R-7686

Applications:

- Mobile connectivity
- Video acquisition and distribution over wireless networks

Patents / Publications:

- U.S. Application 11/076,196

Donna Tumminello
Assistant Director
Office of Technology & Industry Relations
631-632-4632
Donna.Tumminello@stonybrook.edu