Digital Video Library (DVL)

AT&T Labs’ Digital Video Library (DVL) is a technology for indexing video content (such as TV broadcasts, home videos, etc.), to make searching and browsing of video information on the web possible. Moreover, DVL has facilities that enable the automatic repurposing of video content so that the information can be sent to a variety of devices, from TVs to PDAs, DVL does this by parsing out and then processing the different components of a video program – video, audio, text – to extract information that can then be used to search, browse and filter video programs, enabling a user to quickly find relevant clips.

DVL Technology is Ideal for:

• Content owners, such as TV broadcasters, with large archives of video programming who need to convert their media assets to a digital and searchable format.
• Information and entertainment companies who provide value-added video services to customers by offering intelligent searching and browsing capabilities.
• Internet Service Providers who can add value by offering personal video indexing/hosting services.
• Providers of personalized Video on Demand services that can use DVL to automatically produce personalized information and entertainment programs. A prototype of such a system, called “eClips”, has been developed by AT&T Labs researchers using DVL technology.

Digital media technologies have made it possible to create large archives of video and multimedia information. Effective use of these archives requires automatic tools that enable the searching and browsing of video and multimedia data.
There are other companies in the market providing these tools, and they employ technologies that are either developed in-house or licensed from other companies. What’s unique about AT&T Labs’ offering is our history of work in this area; work on video indexing and search tools has been in process since the early 1990’s. DVL in particular has been continuously enhanced over the years with new bleeding-edge technology breakthroughs in video compression, indexing, searching and browsing, and it’s been tried and tested as the basis for several new and innovative product and service concepts.

The Major Differentiators for DVL Technology are:

- Robust video indexing technology.
- Enhanced speech processing capabilities that enable the indexing of multimedia documents.
- Its text processing and story/clip segmentation algorithms enable novel personalized video-on-demand services such as eClips.
- A number of applications based on DVL can be seen at: http://miracle.research.att.com

For additional information, please contact us via e-mail at attip@att.com