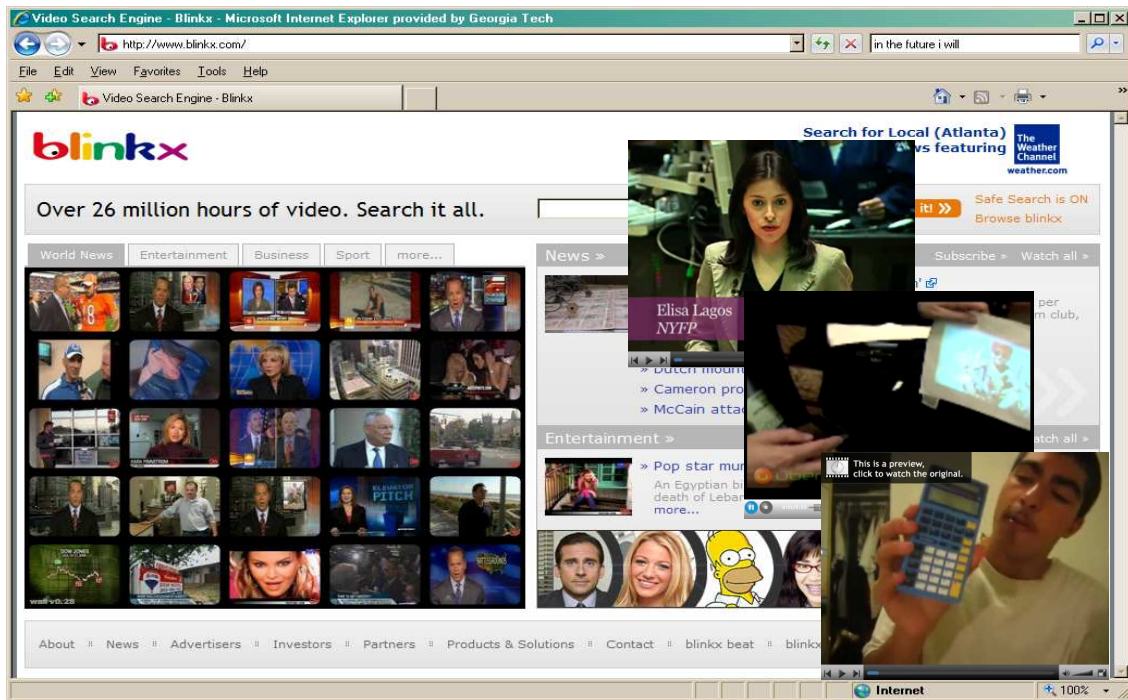


THE VIDEO AND IMAGE ANNOTATION (VIA) VERTICALLY-INTEGRATED PROJECTS TEAM

TEAM TITLE: Video and Image Annotation (VIA) VIP Team

GOALS: Develop interactive systems that enable users to manage exploding multi-media content intelligently by automatically generating verbal descriptions of the contents. The project will use and develop video/image processing as well as data-mining techniques to generate such verbal descriptions of the video contents. To enhance performance, the system will exploit a diverse set of information, such as images, audios, text scripts, web resources, etc. Finally, the system will adapt to users and/or multi-media contents to maximize usability of the interface.



An example of a search for “Texas Instruments” on blinkx.com

TECHNOLOGIES: Video processing, image processing, audio processing, web interfaces and applications, databases, search, Bayesian networks, latent semantic analysis, pattern recognition, and machine learning.

RESEARCH ISSUES: Association of video and image contents with semantic concepts for keyword-based image and video search, and exploration of new audiovisual features, semantic concepts, and integration of domain knowledge to enable user- or content-based adaptation

TEAM ADVISORS: Chin-Hui Lee (chl@ece.gatech.edu), Ed Coyle (ejc@ece.gatech.edu)

PROJECT PARTNERS AND SPONSORS: (Pending)

DESIRED DISCIPLINES AND PREPARATION:

EE – Background/interest in signal processing (image, audio, and video processing) and machine learning; general programming skills (MATLAB) is required.

CmpE, CS – Background/interest in databases, web interface and applications; database management experience is helpful but not required.